



PROFESSIONAL SYSTEM FOR REMOTE BODY TEMPERATURE MEASUREMENT (COVID-19)

IP SYSTEMS

IP CAMERAS 4000 SERIES

IP RECORDERS 4000 SERIES

IP CAMERAS 6000 SERIES

IP CAMERAS SPEED DOME 6000 SERIES

IP RECORDERS 6000 SERIES

IP CAMERAS 8000 SERIES

IP CAMERAS SPEED DOME 8000 SERIES

IP CAMERAS THERMOVISION

RECORDERS 8000 SERIES

IP RECORDERS PC BASED

SOFTWARE FOR MONITORING VIDEO IP NMS

NETWORK SWITCHES

NETWORK ACCESSORIES

SYSTEMY MULTISTANDARD AHD, CVI, TVI, 960H

MULTISTANDARD CAMERAS
MULTISTANDARD CAMERAS SPEED DOME
MULTISTANDARD SIGNAL TRANSMISSION
HYBRID RECORDERS (MULTISTANDARD AND IP)
IR LED ILLUMINATORS

IP VIDEO INTERCOMS



AAT SYSTEMY BEZPIECZEŃSTWA sp. z o.o.



NVIP-2H-8912M/TS SET

PROFESSIONAL SYSTEM FOR REMOTE BODY TEMPERATURE MEASUREMENT

(COVID-19)

Professional system for remote body temperature measurement with mask detection function

NVIP-2H-8912M/TS SET





KEY FEATURES





The set consist of:

1 x IP camera with body temperature measuring feature

NVIP-2H-8912M/TS

1 x Black body calibration unit **NV-BBU**

1 x N Control 8000 software

1 x ceiling mount NVB-BRTS1 (for the camera)

1 x ceiling mount NVB-BRTS2 (for the calibration unit)

Important features:

- up to 16 people simultaneous measurement within less than 1
- detection of people not wearing masks
- measuring accuracy up to +/- 0,3 ° C
- reducing number of false alarms thanks to VCA camera measure temperature only in area when face is detected
- measured temperature value is assigned to specific person, captured image and temperature value are both stored in a database in order to carry out further analysis

Camera specification is available here: NVIP-2H-8912M/TS

Black body calibration unit specification is available here: NV-BBU





IP Recorder

NVR-8332P16-H4/F





KEY FEATURES





















- •16 x Ethernet PoE RJ-45 interface, 10/100 Mbit/s
- •Video and audio channels: 32
- •Supported protocols: ONVIF, RTSP
- •Recording speed up to 960 fps at 4000 x 3000
- •Supports resolution up to 4000 x 3000
- •Recorded stream size: 320 Mb/s in total from all cameras
- •Internal HDDs mount: 4
- •Monitor outputs: 2 (HDMI (4K UltraHD), VGA)
- RACK mount
- •Support for NVIP-2H-8912M / TS cameras for body temperature measuring

DIMENSIONS



VIDEO

Maximum Supported Camera Resolution	4000 x 3000
Compression	H.264, H.264+, H.265, H.265+
Monitor Output	main (split screen, full screen): 1 x VGA, 1 x HDMI (4K UltraHD) (up to 2 monitors simultaneously)
Dualstreaming Support	yes
Fisheye Support	yes, 5000/8000 IP series cameras
AUDIO	
Audio Input/Output	- / 1 x line-out (RCA)

RECORDING

Recording Speed	640 fps (32 x 20 fps for 4000 x 3000)
Stream Size	320 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, alarm input, motion detection, intelligent image analysis functions

DISPLAY

Display Speed	960 fps (32 x 30 fps)
Dispiay Speed	300 lb2 (32 x 30 lb2)

PLAYBACK

Playback Speed	960 fps (32 x 30 fps)
Recorded Data Search	by date/time, events, related to face recognition

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	MP4

STORAGE

Internal Storage	available mount: 4 x HDD 3.5" 12 TB SATA	
Total Internal Capacity	48 TB	
RAID Mode	RAID5, RAID6, RAID10	

ALARM

Internal Alarm Input/Output	2/1 relay type
Motion Detection	supports camera's motion detection
System Reaction to Alarm Events	buzzer, e-mail, alarm output activation, screen message, recording activation

INTELLIGENT IMAGE ANALYSIS









IP Recorder NVR-8332P16-H4/F

Supported Functions	Exception, Tripwire, Zone entrance, Abandoned Object, Object
	Disappearance, Double Line Cross, Face Recognition, Body

Temperature Alarm (support for up to two NVIP-2H-8912M/TS cameras for body temperature measuring)

PoE

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NETWORK	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s • 16 x Ethernet F
	- RI-45 interface, 10/100 Mbit/s

Network Protocols Support HTTP, TCP/IP, IPv4, HTTPS, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, PPPoE, SMTP

ONVIF Protocol Support Profile S

PC/MAC Software Internet Explorer, N Control 8000/InView Pro 4

Number of Simultaneous Connectionsup to 8 clients

Bandwidth 320 Mb/s in total to all client workstations

PTZ

PTZ Functions pan/tilt/zoom, preset commands, patterns, tours

AUXILIARY INTERFACES

USB Ports 2 x USB 2.0 1 x USB 3.0

OPERATING SYSTEM

Operating System	Linux
OSD	languages: Polish, English, Russian, others
Control	PC mouse (in-set included), network
System Diagnostic	automatic control of: HDDs, camera connection loss
Security	password protection IP filtering

INSTALLATION PARAMETERS

Dimensions (mm)	440 (W) x 70 (H) x 368 (D)
Weight	4.2 kg (without HDD)
Power Supply	100 ~ 240 VAC
Power Consumption	15 W + 160 W PoE
Operating Temperature	-10°C ~ 50°C
RACK Mount 19"	1.5U

Intelligent image analysis, dualstream mode, PTZ control, motion detection and alarm inputs / outputs functions depends on the functionality of the camera and the capabilities of the communication protocol. The recorder is dedicated to work with Novus 5000 and 8000 series IP cameras and achieves the best functionality with them. Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES tab. Display and playback speeds are achieved using dual stream.







NoVus

Wall mount bracket, internal/external

NVB-WBRTS





Туре	wall mount bracket, outdoor, indoor
Application	dual IP camera (thermal/optical) with body temperature measuring feature NVIP-2H-8912M/TS
Material	aluminum alloy
Color	white
Load Capacity	3 kg
Dimensions (mm)	95 (W) x 117 (H) x 234 (L)
Weight	0.45 kg









Professional terminal for remote body temperature measurement with face recognition and mask detection function

KDH-KZ6000FR-IP





KEY FEATURES





DIMENSIONS



Key features:

- Detection of people with elevated temperatures
- Non-contact body temperature measurement using infrared
- Content analysis based on Deep Learning
- Configuration of the door unlocking mode
- Human-sounding voice prompts
- Web-server
- Detection of people not wearing masks
- Measuring accuracy up to +/- 0,3°
- Alarm Outputs
- Data storage on SD card
- 8-inch LCD touch screen
- Two-way audio

MORE TECHNICAL INFORMATION IN THE DOWNLOADABLE FILES TAB

How it works:

https://www.youtube.com/watch?v=N0Rlbyu0Sj4





Face recognition terminal with recording

KDH-ST6000P8-H1/F





KEY FEATURES



















- •8 x Ethernet PoE RJ-45 interface, 10/100 Mbit/s
- •Recording speed up to 240 fps at 3840 x 2160
- •Intelligent image analysis
- Face recognition terminal features:room occupancy control, people and vehicle counting statistics and charts (in conjunction with 6500 IP camera series), human temperature measurement (in conjunction with KDH-KZ6000FR-IP), face mask wearing control (in conjunction with KDH-KZ6000FR-IP), access control based on face recognition feature (in conjunction with KDH-KZ6000FR-IP), time attendance based on face recognition feature (in conjunction with KDH-KZ6000FR-IP)

DIMENSIONS



VIDEO

IP Cameras	up to 8 channels at 3840 x 2160 resolution (video + audio)
Maximum Supported Camera Resolution	3840 x 2160
Compression	H.264, H.264+, H.265
Monitor Output	main (split screen, full screen): 1 x VGA, 1 x HDMI (4K UltraHD) (up to 2 monitors simultaneously)
Dualstreaming Support	yes
AUDIO	
Audio Input/Output	1 x line-in (RCA) / 1 x HDMI, 1 x line-out (RCA)
RECORDING	
Stream Size	80 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, motion detection, perimeter intrusion detection, face recognition, intelligent image analysis functions
Prealarm/Postalarm	up to 5 s/up to 600 s
DISPLAY	
Display Speed	240 fps (8 x 30 fps)
PLAYBACK	
Playback Speed	240 fps (8 x 30 fps)
Recorded Data Search	by date/time, events
BACKUP	
Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	AVI, RPAS (player included)
STORAGE	
Internal Storage	available mount: 1 x HDD 3.5" 10 TB SATA
Total Internal Capacity	10 TB
ALARM	
Camera Alarm Input/Output	supports camera's alarm input/output
Motion Detection	supports camera's motion detection
System Reaction to Alarm Events	buzzer, recording activation, PTZ, e-mail with atatchment
INTELLIGENT IMAGE ANALYS	is

People Counting







Supported Functions

NETWORK



Face recognition terminal with recording KDH-ST6000P8-H1/F

Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s • 8 x Ethernet PoE - RJ-45 interface, 10/100 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, SMTP
ONVIF Protocol Support	Profile S (ONVIF 2.2 or higher)
PC/MAC Software	NMS, Internet Explorer, N Control 6000/N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
Number of Simultaneous Connection	nsup to 2 clients, up to 5 main streams or 12 substreams or 8 playback streams in total $$
Bandwidth	80 Mb/s in total to all client workstations
PTZ	
PTZ Functions	pan/tilt/zoom, preset commands
AUXILIARY INTERFACES	
USB Ports	2 x USB 2.0
OPERATING SYSTEM	
Operating System	Linux
Operation Mode	triplex
OSD	languages: Polish, English, others
Control	IR remote controller, PC mouse (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering, MAC filtering
INSTALLATION PARAMETERS	
Dimensions (mm)	300 (W) x 52 (H) x 248 (D)
Weight	1.16 kg (without HDD)
Power Supply	100 ~ 240 VAC
Power Consumption	20 W (with 1 HDD) + 100 W PoE
Operating Temperature	-10°C ~ 50°C

In order to take full advantage of the recorder capabilities, it is recommended to use NOVUS IP 6000 series cameras. The availability of individual functions depends on the model of cameras used as well as the software version of the recorder and cameras. Detailed data can be found in the compatibility table available in the DOWNLOADS tab

The list of compatible drives is available in the DOWNLOADS tab.









KDH-KZ6000FR-IP body temperature terminal bracket

KDA-DB6000



Туре	indoor, desk bracket
Application	terminal for body temperature measurement KDH-KZ6000FR-IP
Color	black
Load Capacity	2 kg
Dimensions (mm)	100 (W) x 86 (H) x 160 (L)
Weight	0.5 kg









KDH-KZ6000FR-IP body temperature terminal bracket

KDA-GB6000



Туре	indoor
Application	terminal for body temperature measurement KDH-KZ6000FR-IP
Color	black, silver
Load Capacity	2 kg
Dimensions (mm)	55 φ x 317 (height)
Weight	0.6 kg









KDH-KZ6000FR-IP body temperature terminal bracket

KDA-SB6000



Туре	indoor, detached
Application	terminal for body temperature measurement KDH-KZ6000FR-IP
Color	black
Load Capacity	2 kg
Dimensions (mm)	600 - 1500 (adjustable length), base 300 x 300
Weight	6.5 kg

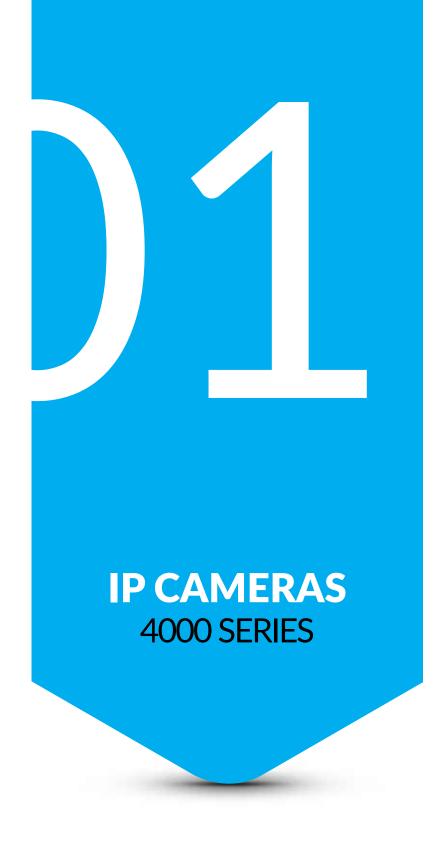








IP SYSTEMS IP VIDEO SURVEILLANCE





Vandal Proof IP Camera

NVIP-2VE-4231





KEY FEATURES















- •Resolution: 2 MPX
- •Lens: fixed focal, f=3.6 mm/F2.2
- •built-in microphone
- •D/N function IR cut filter
- $\hbox{-microSD card support}\\$
- •Min. Illumination: 0.1 lx (0 lx, IR on)
- •IR LED, range up to 30 m
- "Two way power" when connected to a PoE switch, it allows to power the low power receiver from the camera's power socket

DIMENSIONS







IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	1920 (H) x 1080 (V)
Min. Illumination	0.1 lx/F1.2 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, f=3.6 mm/F2.2
DAY/NIGHT	

DAT/MOTT	
Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Delay	1 ~ 36 s
Visible Light Sensor	yes

NETWORK

Stream Resolution	1920 x 1080 (Full HD), 640 x 480 (VGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) • 20 fps for 640 x 480 (VGA)
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.265/G.711
Number of Simultaneous Conne	ctionsmax. 10
Bandwidth	40 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SMTP
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian and others
Compatible Software	NMS

OTHER FUNCTIONS

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Privacy Zones	4 video mask type: single color	
Motion Detection	yes	









Vandal Proof IP Camera NVIP-2VE-4231

Image Processing	180° image rotation, vertical flip, horizontal flip
Prealarm/Postalarm	up to 5 s/up to 30 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, saving in the cloud storage
Restoring default settings	via web browser, using reset button
IR LED	
LED Number	2
Range	30 m
Smart IR	yes (hardware support)
INTERFACES	
Audio Input/Output	built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	
Dimensions (mm)	100 (Ф) x 90 (H)
Weight	0.43 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	vandalproof aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	1.5 W • 4 W (IR on)
Operating Temperature	-30°C ~ 55°C
Humidity	max. 95%, relative (non-condensing)







Vandal Proof IP Camera with PIR detector

NVIP-2VE-4231/PIR





KEY FEATURES















90 mm

- •Resolution: 2 MPX
- •Lens: fixed focal, f=2.8 mm/F2.2
- •built-in microphone
- •D/N function IR cut filter
- •reduction of false alarms PIR detector
- •microSD card support
- •Min. Illumination: 0.1 lx (0 lx, IR on)
- •IR LED, range up to 30 m
- •"Two way power" when connected to a PoE switch, it allows to power the low power receiver from the camera's power socket

DIMENSIONS



100 mm (Ø)



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	1920 (H) x 1080 (V)
Min. Illumination	0.1 lx/F1.2 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, f=2.8 mm/F2.2	
DAY/NIGHT		

DAT/NIGHT		
Switching Type	mechanical IR cut filter	
Switching Mode	auto, manual, time	
Switching Delay	1 ~ 36 s	
Visible Light Sensor	yes	

NETWORK

Stream Resolution	1920 x 1080 (Full HD), 640 x 480 (VGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) • 20 fps for 640 x 480 (VGA)
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.265/G.711
Number of Simultaneous Conne	ctionsmax. 10
Bandwidth	40 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SMTP
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS
OTHER FUNCTIONS	

OTHER FUNCTIONS

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Privacy Zones	4 video mask type: single color
Motion Detection	yes









Vandal Proof IP Camera with PIR detector NVIP-2VE-4231/PIR

PIR detector	range up to 7 m
Image Processing	180° image rotation, vertical flip, horizontal flip
Prealarm/Postalarm	up to 5 s/up to 30 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, saving in the cloud storage
Restoring default settings	via web browser, using reset button
IR LED	
LED Number	2
Range	30 m
Smart IR	yes (hardware support)
INTERFACES	
Audio Input/Output	built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	
Dimensions (mm)	100 (Ф) x 90 (H)
Weight	0.43 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	vandalproof aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	1.5 W • 4 W (IR on)
Operating Temperature	-30°C ~ 55°C
Humidity	max. 95%, relative (non-condensing)







Vandal Proof IP Camera Starlight PRO DUO

NVIP-2VE-4231/WL





KEY FEATURES















- •Resolution: 2 MPX
- •Lens: fixed focal, f=3.6 mm/F1.0
- •built-in microphone
- •D/N function IR cut filter
- •microSD card support
- •Min. Illumination: 0.0005 lx (0 lx, IR on)
- •IR LED, range up to 30 m
- •white LED illuminator, range up to 25 m
- "Two way power" when connected to a PoE switch, it allows to power the low power receiver from the camera's power socket

DIMENSIONS







IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	1920 (H) x 1080 (V)
Min. Illumination	0.0005 lx/F1.0 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type

DAY/NIGHT		
Switching Type	mechanical IR cut filter	
Switching Mode	auto, manual, time	
Switching Delay	1 ~ 36 s	
Switching Schedule	yes	
Visible Light Sensor	yes	

fixed focal, f=3.6 mm/F1.0

NETWORK

Stream Resolution	1920 x 1080 (Full HD), 640 x 480 (VGA)	
Frame Rate	30 fps for 1920 x 1080 (Full HD) • 20 fps for 640 x 480 (VGA)	
Multistreaming Mode	2 streams	
Video/Audio Compression	H.264, H.265/G.711	
Number of Simultaneous Connection	smax. 10	
Bandwidth	40 Mb/s in total	
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SNMP, SMTP	
ONVIF Protocol Support	Profile S/G	
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others	
Compatible Software	NMS	
Mobile applications	RxCamView (iPhone, Android)	







Vandal Proof IP Camera Starlight PRO DUO NVIP-2VE-4231/WL

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OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Image Processing	180° image rotation, vertical flip, horizontal flip
Prealarm/Postalarm	up to 5 s/up to 30 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, saving in the cloud storage
Determent	LED warning light, white, flashing/continuous mode,
Restoring default settings	via web browser, using reset button
IR LED	
LED Number	2
Range	30 m
Smart IR	yes (hardware support)
WHITE LIGHT ILLUMINATOR	
LED Number	2, warm white color
Range	25 m
Smart Light	yes (hardware support)
INTERFACES	
Audio Input/Output	built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	
Dimensions (mm)	100 (Φ) x 90 (H)
Weight	0.42 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	vandalproof aluminium, white
Power Supply	12 VDC, PoE (IEEE 802.3af, Class 3)
Surge protection	TVS 4000 V
Power Consumption	1.2 W • 3.5 W (IR illuminator on) • 3.3 W (white light illuminator on) • 5.6 W (IR and white light illuminators on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)







NoVus

Bullet IP Camera

NVIP-2H-4231





KEY FEATURES















- •Resolution: 2 MPX
- •Lens: fixed focal, f=3.6 mm/F2.2
- •built-in microphone
- •D/N function IR cut filter
- •microSD card support
- •Min. Illumination: 0.1 lx (0 lx, IR on)
- •IR LED, range up to 30 m
- "Two way power" when connected to a PoE switch, it allows to power the low power receiver from the camera's power socket

DIMENSIONS



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	1920 (H) x 1080 (V)
Min. Illumination	0.1 lx/F1.2 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, f=3.6 mm/F2.2

DAY/NIGHT

DAT/IIIOTT	
Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Delay	1 ~ 36 s
Visible Light Sensor	yes

NETWORK

NE I WORK	
Stream Resolution	1920 x 1080 (Full HD), 640 x 480 (VGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) • 20 fps for 640 x 480 (VGA)
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.265/G.711
Number of Simultaneous Connec	tionsmax. 10
Bandwidth	40 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SMTP
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color	
Motion Detection	yes	









Bullet IP Camera NVIP-2H-4231

Image Processing	180° image rotation, vertical flip, horizontal flip
Prealarm/Postalarm	up to 5 s/up to 30 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, saving in the cloud storage
Restoring default settings	via web browser, using reset button
IR LED	
LED Number	2
Range	30 m
Smart IR	yes (hardware support)
INTERFACES	
Audio Input/Output	built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	
Dimensions (mm)	with bracket: 71 (Φ) x 150 (L)
Weight	0.4 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included , IK10 impact rating
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	1.5 W • 4 W (IR on)
Operating Temperature	-30°C ~ 55°C
Humidity	max. 95%, relative (non-condensing)







Bullet IP Camera with PIR detector NVIP-2H-4231/PIR





KEY FEATURES















- •Resolution: 2 MPX
- •Lens: fixed focal, f=2.8 mm/F2.2
- •built-in microphone
- •D/N function IR cut filter
- •reduction of false alarms PIR detector
- ·microSD card support
- •Min. Illumination: 0.1 lx (0 lx, IR on)
- •IR LED, range up to 30 m
- •"Two way power" when connected to a PoE switch, it allows to power the low power receiver from the camera's power socket

DIMENSIONS







IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	1920 (H) x 1080 (V)
Min. Illumination	0.1 lx/F1.2 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, f=2.8 mm/F2.2

DAY/NIGHT

•		
Switching Type	mechanical IR cut filter	
Switching Mode	auto, manual, time	
Switching Delay	1 ~ 36 s	
Visible Light Sensor	yes	

NETWORK

Stream Resolution	1920 x 1080 (Full HD), 640 x 480 (VGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) • 20 fps for 640 x 480 (VGA)
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.265/G.711
Number of Simultaneous Connec	tionsmax. 10
Bandwidth	40 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SMTP
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS
OTHER FUNCTIONS	

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes









Bullet IP Camera with PIR detector NVIP-2H-4231/PIR

PIR detector	range up to 7 m
Image Processing	180° image rotation, vertical flip, horizontal flip
Prealarm/Postalarm	up to 5 s/up to 30 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, saving in the cloud storage
Restoring default settings	via web browser, using reset button
IR LED	
LED Number	2
Range	30 m
Smart IR	yes (hardware support)
INTERFACES	
Audio Input/Output	built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	;
Dimensions (mm)	with bracket: 71 (Φ) x 150 (L)
Weight	0.4 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included , IK10 impact rating
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	1.5 W • 4 W (IR on)
Operating Temperature	-30°C ~ 55°C
Humidity	max. 95%, relative (non-condensing)







Bullet IP Camera Starlight PRO DUO **NVIP-2H-4231/WL**





KEY FEATURES















- •Resolution: 2 MPX
- •Lens: fixed focal, f=3.6 mm/F1.0
- •built-in microphone
- •D/N function IR cut filter
- •microSD card support
- •Min. Illumination: 0.0005 lx (0 lx, IR on)
- •IR LED, range up to 30 m
- •white LED illuminator, range up to 25 m
- "Two way power" when connected to a PoE switch, it allows to power the low power receiver from the camera's power socket

DIMENSIONS





74 mm (Ø)





151 mm

IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	1920 (H) x 1080 (V)
Min. Illumination	0.0005 lx/F1.0 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type

DAY/NIGHT	
Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Delay	1 ~ 36 s
Switching Schedule	yes

yes

fixed focal, f=3.6 mm/F1.0

NETWORK

Visible Light Sensor

Stream Resolution	1920 x 1080 (Full HD), 640 x 480 (VGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) • 20 fps for 640 x 480 (VGA)
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.265/G.711
Number of Simultaneous Connection	smax. 10
Bandwidth	40 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SNMP, SMTP
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer browser \bullet languages: Polish, English, Russian, and others
Compatible Software	NMS
Mobile applications	RxCamView (iPhone, Android)







Bullet IP Camera Starlight PRO DUO NVIP-2H-4231/WL

OTHER FUNCTIONS	OT	HER	FUN	CTIONS
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OTHER PONCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Image Processing	180° image rotation, vertical flip, horizontal flip
Prealarm/Postalarm	up to 5 s/up to 30 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, saving in the cloud storage
Determent	LED warning light, white, flashing/continuous mode,
Restoring default settings	via web browser, using reset button
IR LED	
LED Number	2
Range	30 m
Smart IR	yes (hardware support)
WHITE LIGHT ILLUMINATOR	
LED Number	2, warm white color
Range	25 m
Smart Light	yes (hardware support)
INTERFACES	
Audio Input/Output	built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	
Dimensions (mm)	with bracket: 74 (Φ) x 151 (L)
Weight	0.38 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included
Power Supply	12 VDC, PoE (IEEE 802.3af, Class 3)
Surge protection	TVS 4000 V
Power Consumption	1.2 W • 3.5 W (IR illuminator on) • 3.3 W (white light illuminator on) • 5.6 W (IR and white light illuminators on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)







Vandal Proof IP Camera

NVIP-5VE-4231





KEY FEATURES















- •Resolution: 5 MPX
- •Lens: fixed focal, f=2.8 mm/F1.6
- •support for Chrome, Firefox, Opera, Safari browsers
- •D/N function IR cut filter
- •microSD card support
- •Min. Illumination: 0.05 lx (0 lx, IR on)
- •IR LED, range up to 30 m
- "Two way power" when connected to a PoE switch, it allows to power the low power receiver from the camera's power socket

DIMENSIONS





IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2592 (H) x 1944 (V)
Min. Illumination	0.05 lx/F1.2 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type

DAY/NIGHT		
Switching Type	mechanical IR cut filter	
Switching Mode	auto, manual, time	
Switching Delay	1 ~ 36 s	

yes

fixed focal, f=2.8 mm/F1.6

NETWORK

Visible Light Sensor

OTHER FUNCTIONS

Stream Resolution	2592 x 1944, 2592 x 1520, 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 960, 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA)
Frame Rate	20 fps for 2592 x 1944 • 25 fps for 2592 x 1520 • 30 fps for 2304 x 1296 and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.265/G.711
Number of Simultaneous Connection	nsmax. 7
Bandwidth	20 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SNMP, SMTP, P2P, HTML5
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer, Firefox, Chrome, Opera, Safari browser • languages: Polish, English, Russian, and others
Compatible Software	NMS
Mobile applications	RxCamView (iPhone, Android)







Vandal Proof IP Camera **NVIP-5VE-4231**

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Audio Detection	yes
Image Processing	180° image rotation, vertical flip, horizontal flip
Prealarm/Postalarm	up to 5 s/up to 30 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, saving in the cloud storage
Restoring default settings	via web browser, using reset button
IR LED	
LED Number	2
Range	30 m
Smart IR	yes (hardware support)
INTERFACES	
Audio Input/Output	built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	
Dimensions (mm)	100 (Φ) x 90 (H)
Weight	0.43 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	1.5 W • 4 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)







Vandal Proof IP Camera

NVIP-5VE-4232





KEY FEATURES















128 mm

- •Resolution: 5 MPX
- •Lens: varifocal, f=2.7 ~ 13.5 mm/F1.8
- •support for Chrome, Firefox, Opera, Safari browsers
- •D/N function IR cut filter
- •microSD card support
- •two-way audio
- •Min. Illumination: 0.05 lx (0 lx, IR on)
- •IR LED, range up to 45 m
- "Two way power" when connected to a PoE switch, it allows to power the low power receiver from the camera's power socket

DIMENSIONS







135 mm (Ø)

IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2592 (H) x 1944 (V)
Min. Illumination	0.05 lx/F1.2 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Delay	1 ~ 36 s
Visible Light Sensor	yes

NETWORK

NETWORK	
Stream Resolution	2592 x 1944, 2592 x 1520, 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 960, 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA)
Frame Rate	20 fps for 2592 x 1944 • 25 fps for 2592 x 1520 • 30 fps for 2304 x 1296 and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.265/G.711
Number of Simultaneous Connection	nsmax. 7
Bandwidth	20 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SNMP, SMTP, HTML5
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer, Firefox, Chrome, Opera, Safari browser • languages: Polish, English, Russian, and others
Compatible Software	NMS
Mobile applications	RxCamView (iPhone, Android)









Vandal Proof IP Camera **NVIP-5VE-4232**

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Audio Detection	yes
Image Processing	180° image rotation, vertical flip, horizontal flip
Prealarm/Postalarm	up to 5 s/up to 30 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, saving in the cloud storage
Restoring default settings	via web browser, using reset button
IR LED	
LED Number	4
Range	45 m
Smart IR	yes (hardware support)
INTERFACES	
Audio Input/Output	1 x RCA/1 x RCA
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	
Dimensions (mm)	135 (Ф) x 128 (Н)
Weight	0.86 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	vandalproof aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	2 W • 5 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)







Vandal Proof IP Camera with Motor-zoom Lens

NVIP-5VE-4232M





KEY FEATURES















- •Resolution: 5 MPX
- •Lens: motorized, auto-focus function, f=2.7 ~ 13.5 mm/F1.8
- •support for Chrome, Firefox, Opera, Safari browsers
- •D/N function IR cut filter
- •microSD card support
- •two-way audio
- •Min. Illumination: 0.05 lx (0 lx, IR on)
- •IR LED, range up to 45 m
- "Two way power" when connected to a PoE switch, it allows to power the low power receiver from the camera's power socket

DIMENSIONS





135 mm (Ø)



IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2592 (H) x 1944 (V)
Min. Illumination	0.05 lx/F1.2 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, f=2.7 ~ 13.5 mm/F1.8
Auto-focus	zoom trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Delay	1 ~ 36 s
Visible Light Sensor	yes

NETWORK

2592 x 1944, 2592 x 1520, 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 960, 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA)
20 fps for 2592 x 1944 • 25 fps for 2592 x 1520 • 30 fps for 2304 x 1296 and lower resolutions
3 streams
H.264, H.265/G.711
tionsmax. 7
20 Mb/s in total
HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SNMP, SMTP, P2P, HTML5
Profile S/G
from Internet Explorer, Firefox, Chrome, Opera, Safari browser • languages: Polish, English, Russian, and others
NMS
RxCamView (iPhone, Android)







Vandal Proof IP Camera with Motor-zoom Lens **NVIP-5VE-4232M**

OTHER FUNCTIONS

OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Audio Detection	yes
Image Processing	180° image rotation, vertical flip, horizontal flip
Prealarm/Postalarm	up to 5 s/up to 30 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, saving in the cloud storage
Restoring default settings	via web browser, using reset button
IR LED	
LED Number	4
Range	45 m
Smart IR	yes (hardware support)
INTERFACES	
Audio Input/Output	1 x RCA/1 x RCA
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	
Dimensions (mm)	135 (Φ) x 128 (H)
Weight	0.86 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	vandalproof aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	2 W • 5 W (IR illuminator on)
Operating Temperature	-30°C ~ 60°C

max. 95%, relative (non-condensing)







Humidity

Bullet IP Camera NVIP-5H-4231





KEY FEATURES













- •Resolution: 5 MPX
- •Lens: fixed focal, f=2.8 mm/F1.6
- •support for Chrome, Firefox, Opera, Safari browsers
- •D/N function IR cut filter
- •microSD card support
- •Min. Illumination: 0.05 lx (0 lx, IR on)
- •IR LED, range up to 30 m
- "Two way power" when connected to a PoE switch, it allows to power the low power receiver from the camera's power socket

DIMENSIONS



IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2592 (H) x 1944 (V)
Min. Illumination	0.05 lx/F1.2 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, f=2.8 mm/F1.6
DAY/NIGHT	

DAT/NIGHT		
Switching Type	mechanical IR cut filter	
Switching Mode	auto, manual, time	
Switching Delay	1 ~ 36 s	
Visible Light Sensor	yes	

NETWORK

Characa Danalatian	
Stream Resolution	2592 x 1944, 2592 x 1520, 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 960, 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA)
Frame Rate	20 fps for 2592 x 1944 • 25 fps for 2592 x 1520 • 30 fps for 2304 x 1296 and lower resolutions
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.265/G.711
Number of Simultaneous Connection	nsmax. 7
Bandwidth	20 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SMTP, P2P, HTML5
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer, Firefox, Chrome, Opera, Safari browser • languages: Polish, English, Russian, and others
Compatible Software	NMS
Mobile applications	RxCamView (iPhone, Android)









Bullet IP Camera NVIP-5H-4231

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Audio Detection	yes
Image Processing	180° image rotation, vertical flip, horizontal flip
Prealarm/Postalarm	up to 5 s/up to 30 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, saving in the cloud storage
Restoring default settings	via web browser, using reset button
IR LED	
LED Number	2
Range	30 m
Smart IR	yes (hardware support)
INTERFACES	
Audio Input/Output	built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	
Dimensions (mm)	with bracket: 71 (Φ) x 150 (L)
Weight	0.4 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	1.5 W • 4 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)







Bullet IP Camera with Motor-zoom Lens NVIP-5H-4232





KEY FEATURES















- •Resolution: 5 MPX
- •Lens: varifocal, f=2.7 ~ 13.5 mm/F1.8
- •support for Chrome, Firefox, Opera, Safari browsers
- •D/N function IR cut filter
- •microSD card support
- •two-way audio
- •Min. Illumination: 0.05 lx (0 lx, IR on)
- •IR LED, range up to 45 m
- "Two way power" when connected to a PoE switch, it allows to power the low power receiver from the camera's power socket

DIMENSIONS



IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2592 (H) x 1944 (V)
Min. Illumination	0.05 lx/F1.2 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

ens Type	varifocal, $f=2.7 \sim 13.5 \text{ mm/F}1.8$

DAY/NIGHT

Switching Type	mechanical IR cut filter	
Switching Mode	auto, manual, time	
Switching Delay	1 ~ 36 s	
Visible Light Sensor	yes	

NETWORK

OTHER FUNCTIONS

Privacy Zones

2592 x 1944, 2592 x 1520, 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 960, 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA)
20 fps for 2592 x 1944 • 25 fps for 2592 x 1520 • 30 fps for 2304 x 1296 and lower resolutions
3 streams
H.264, H.265/G.711
nsmax. 7
20 Mb/s in total
HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SMTP, P2P, HTML5
Profile S/G
from Internet Explorer, Firefox, Chrome, Opera, Safari browser • languages: Polish, English, Russian, and others
NMS
RxCamView (iPhone, Android)

4 video mask type: single color









Bullet IP Camera with Motor-zoom Lens NVIP-5H-4232

Audio Detection yes Image Processing 180° image rotation, vertical flip, horizontal flip Prealarm/Postalarm up to 5 s/up to 30 s System Reaction to Alarm Events e-mail with attachment, saving file on FTP server, saving file on SD card, saving in the cloud storage Restoring default settings via web browser, using reset button IR LED LED Number 4 Range 45 m Smart IR yes (hardware support) INTERFACES Audio Input/Output 1 x RCA/1 x RCA Network Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s Memory Card Slot microSD - capacity up to 256GB INSTALLATION PARAMETERS Dimensions (mm) with bracket: 87 (W) x 83 (H) x 242 (L) Weight 0.82 kg Degree of Protection IP 66 (details in the user's manual) Enclosure aluminium, white, fully cable managed wall mount bracket in-set included Power Supply PoE, 12 VDC Surge protection TVS 4000 V Power Consumption 2 W • 5 W (IR illuminator on)	Motion Detection	yes
Prealarm/Postalarm up to 5 s/up to 30 s System Reaction to Alarm Events e-mail with attachment, saving file on FTP server, saving file on SD card, saving in the cloud storage Restoring default settings via web browser, using reset button IR LED LED Number 4 Range 45 m Smart IR yes (hardware support) INTERFACES Audio Input/Output 1 x RCA/1 x RCA Network Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s Memory Card Slot microSD - capacity up to 256GB INSTALLATION PARAMETERS Dimensions (mm) with bracket: 87 (W) x 83 (H) x 242 (L) Weight 0.82 kg Degree of Protection IP 66 (details in the user's manual) Enclosure aluminium, white, fully cable managed wall mount bracket in-set included Power Supply PoE, 12 VDC Surge protection TVS 4000 V	Audio Detection	yes
System Reaction to Alarm Events card, saving file on FTP server, saving file on SD card, saving in the cloud storage Restoring default settings via web browser, using reset button IR LED LED Number 4 Range 45 m Smart IR yes (hardware support) INTERFACES Audio Input/Output 1 x RCA/1 x RCA Network Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s Memory Card Slot microSD - capacity up to 256GB INSTALLATION PARAMETERS Dimensions (mm) with bracket: 87 (W) x 83 (H) x 242 (L) Weight 0.82 kg Degree of Protection IP 66 (details in the user's manual) Enclosure aluminium, white, fully cable managed wall mount bracket in-set included Power Supply PoE, 12 VDC Surge protection TVS 4000 V	Image Processing	180° image rotation, vertical flip, horizontal flip
card, saving in the cloud storage Restoring default settings via web browser, using reset button IR LED LED Number 4 Range 45 m Smart IR yes (hardware support) INTERFACES Audio Input/Output 1 x RCA/1 x RCA Network Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s Memory Card Slot microSD - capacity up to 256GB INSTALLATION PARAMETERS Dimensions (mm) with bracket: 87 (W) x 83 (H) x 242 (L) Weight 0.82 kg Degree of Protection IP 66 (details in the user's manual) Enclosure aluminium, white, fully cable managed wall mount bracket in-set included Power Supply PoE, 12 VDC Surge protection TVS 4000 V	Prealarm/Postalarm	up to 5 s/up to 30 s
IR LED LED Number 4 Range 45 m Smart IR yes (hardware support) INTERFACES Audio Input/Output 1 x RCA/1 x RCA Network Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s Memory Card Slot microSD - capacity up to 256GB INSTALLATION PARAMETERS Dimensions (mm) with bracket: 87 (W) x 83 (H) x 242 (L) Weight 0.82 kg Degree of Protection IP 66 (details in the user's manual) Enclosure aluminium, white, fully cable managed wall mount bracket in-set included Power Supply PoE, 12 VDC Surge protection TVS 4000 V	System Reaction to Alarm Events	
LED Number 4 Range 45 m Smart IR yes (hardware support) INTERFACES Audio Input/Output 1 x RCA/1 x RCA Network Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s Memory Card Slot microSD - capacity up to 256GB INSTALLATION PARAMETERS Dimensions (mm) with bracket: 87 (W) x 83 (H) x 242 (L) Weight 0.82 kg Degree of Protection IP 66 (details in the user's manual) Enclosure aluminium, white, fully cable managed wall mount bracket in-set included Power Supply PoE, 12 VDC Surge protection TVS 4000 V	Restoring default settings	via web browser, using reset button
Range 45 m Smart IR yes (hardware support) INTERFACES Audio Input/Output 1 x RCA/1 x RCA Network Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s Memory Card Slot microSD - capacity up to 256GB INSTALLATION PARAMETERS Dimensions (mm) with bracket: 87 (W) x 83 (H) x 242 (L) Weight 0.82 kg Degree of Protection IP 66 (details in the user's manual) Enclosure aluminium, white, fully cable managed wall mount bracket in-set included Power Supply PoE, 12 VDC Surge protection TVS 4000 V	IR LED	
Smart IR yes (hardware support) INTERFACES Audio Input/Output 1 x RCA/1 x RCA Network Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s Memory Card Slot microSD - capacity up to 256GB INSTALLATION PARAMETERS Dimensions (mm) with bracket: 87 (W) x 83 (H) x 242 (L) Weight 0.82 kg Degree of Protection IP 66 (details in the user's manual) Enclosure aluminium, white, fully cable managed wall mount bracket in-set included Power Supply PoE, 12 VDC Surge protection TVS 4000 V	LED Number	4
INTERFACES Audio Input/Output 1 x RCA/1 x RCA Network Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s Memory Card Slot microSD - capacity up to 256GB INSTALLATION PARAMETERS Dimensions (mm) with bracket: 87 (W) x 83 (H) x 242 (L) Weight 0.82 kg Degree of Protection IP 66 (details in the user's manual) Enclosure aluminium, white, fully cable managed wall mount bracket in-set included Power Supply PoE, 12 VDC Surge protection TVS 4000 V	Range	45 m
Audio Input/Output 1 x RCA/1 x RCA Network Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s Memory Card Slot microSD - capacity up to 256GB INSTALLATION PARAMETERS Dimensions (mm) with bracket: 87 (W) x 83 (H) x 242 (L) Weight 0.82 kg Degree of Protection IP 66 (details in the user's manual) Enclosure aluminium, white, fully cable managed wall mount bracket in-set included Power Supply PoE, 12 VDC Surge protection TVS 4000 V	Smart IR	yes (hardware support)
Network Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s Memory Card Slot microSD - capacity up to 256GB INSTALLATION PARAMETERS Dimensions (mm) with bracket: 87 (W) x 83 (H) x 242 (L) Weight 0.82 kg Degree of Protection IP 66 (details in the user's manual) Enclosure aluminium, white, fully cable managed wall mount bracket in-set included Power Supply PoE, 12 VDC Surge protection TVS 4000 V	INTERFACES	
Memory Card Slot microSD - capacity up to 256GB INSTALLATION PARAMETERS Dimensions (mm) with bracket: 87 (W) x 83 (H) x 242 (L) Weight 0.82 kg Degree of Protection IP 66 (details in the user's manual) Enclosure aluminium, white, fully cable managed wall mount bracket in-set included Power Supply PoE, 12 VDC Surge protection TVS 4000 V	Audio Input/Output	1 x RCA/1 x RCA
Dimensions (mm) with bracket: 87 (W) x 83 (H) x 242 (L) Weight 0.82 kg Degree of Protection IP 66 (details in the user's manual) Enclosure aluminium, white, fully cable managed wall mount bracket in-set included Power Supply PoE, 12 VDC Surge protection TVS 4000 V	Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Dimensions (mm) with bracket: 87 (W) x 83 (H) x 242 (L) Weight 0.82 kg Degree of Protection IP 66 (details in the user's manual) Enclosure aluminium, white, fully cable managed wall mount bracket in-set included Power Supply PoE, 12 VDC Surge protection TVS 4000 V	Memory Card Slot	microSD - capacity up to 256GB
Weight 0.82 kg Degree of Protection IP 66 (details in the user's manual) Enclosure aluminium, white, fully cable managed wall mount bracket in-set included Power Supply PoE, 12 VDC Surge protection TVS 4000 V	INSTALLATION PARAMETERS	
Degree of Protection IP 66 (details in the user's manual) Enclosure aluminium, white, fully cable managed wall mount bracket in-set included Power Supply PoE, 12 VDC Surge protection TVS 4000 V	Dimensions (mm)	with bracket: 87 (W) x 83 (H) x 242 (L)
Enclosure aluminium, white, fully cable managed wall mount bracket in-set included Power Supply PoE, 12 VDC Surge protection TVS 4000 V	Weight	0.82 kg
included Power Supply PoE, 12 VDC Surge protection TVS 4000 V	Degree of Protection	IP 66 (details in the user's manual)
Surge protection TVS 4000 V	Enclosure	
	Power Supply	PoE, 12 VDC
Power Consumption 2 W • 5 W (IR illuminator on)	Surge protection	TVS 4000 V
	Power Consumption	2 W • 5 W (IR illuminator on)
Operating Temperature $-30^{\circ}\text{C} \sim 60^{\circ}\text{C}$	Operating Temperature	-30°C ~ 60°C
Humidity max. 95%, relative (non-condensing)	Humidity	max. 95%, relative (non-condensing)







Bullet IP Camera with Motor-zoom Lens NVIP-5H-4232M





KEY FEATURES















- •Resolution: 5 MPX
- •Lens: motorized, auto-focus function, f=2.7 ~ 13.5 mm/F1.8
- •support for Chrome, Firefox, Opera, Safari browsers
- •D/N function IR cut filter
- •microSD card support
- •two-way audio
- •Min. Illumination: 0.05 lx (0 lx, IR on)
- •IR LED, range up to 45 m
- "Two way power" when connected to a PoE switch, it allows to power the low power receiver from the camera's power socket

DIMENSIONS



IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2592 (H) x 1944 (V)
Min. Illumination	0.05 lx/F1.2 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, f=2.7 ~ 13.5 mm/F1.8
Auto-focus	zoom trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter	
Switching Mode	auto, manual, time	
Switching Delay	1 ~ 36 s	
Visible Light Sensor	yes	

Stream Resolution	2592 x 1944, 2592 x 1520, 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 960, 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA)	
Frame Rate	20 fps for 2592 x 1944 • 25 fps for 2592 x 1520 • 30 fps for 2304 x 1296 and lower resolutions	
Multistreaming Mode	3 streams	
Video/Audio Compression	H.264, H.265/G.711	
Number of Simultaneous Conne	ctionsmax. 7	
Bandwidth	20 Mb/s in total	
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SMTP, P2P, HTML5	
ONVIF Protocol Support	Profile S/G	
Camera Configuration	from Internet Explorer, Firefox, Chrome, Opera, Safari browser • languages: Polish, English, Russian, and others	
Compatible Software	NMS	
Mobile applications	RxCamView (iPhone, Android)	

OTHER FUNCTIONS









Bullet IP Camera with Motor-zoom Lens NVIP-5H-4232M

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Audio Detection	yes
Image Processing	180° image rotation, vertical flip, horizontal flip
Prealarm/Postalarm	up to 5 s/up to 30 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, saving in the cloud storage
Restoring default settings	via web browser, using reset button
IR LED	
LED Number	4
Range	45 m
Smart IR	yes (hardware support)
INTERFACES	
Audio Input/Output	1 x RCA/1 x RCA
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	
Dimensions (mm)	with bracket: 87 (W) x 83 (H) x 242 (L)
Weight	0.82 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	2 W • 5 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)







Vandal Proof IP Camera

NVIP-5VE-4501





KEY FEATURES

















- •Resolution: 5 MPX
- •Lens: fixed focal, f=2.8 mm/F1.6
- •support for Chrome, Firefox, Opera, Safari browsers
- •D/N function IR cut filter
- •Video content analysis based on Deep Learning
- microSD card support
- $\bullet \mathsf{WDR} \mathsf{\ with\ double\ scan\ sensor}$
- •Min. Illumination: 0.03 lx (0 lx, IR on)
- •IR LED, range up to 30 m
- "Two way power" when connected to a PoE switch, it allows to power the low power receiver from the camera's power socket

DIMENSIONS







IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2880 (H) x 1620 (V)
Min. Illumination	0.03 lx/F1.2 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type

DAY/NIGHT		
Switching Type	mechanical IR cut filter	
Switching Mode	auto, manual, time	
Switching Delay	1 ~ 36 s	

fixed focal, f=2.8 mm/F1.6

Visible Light Sensor	yes
NETWORK	
Stream Resolution	2880 x 1620, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA)
Frame Rate	30 fps for each resolution
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+/G.711
Number of Simultaneous Connectionsmax. 10	
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SNMP, SMTP, P2P, HTML5
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer, Firefox, Chrome, Opera, Safari browser • languages: Polish, English, Russian, and others
Compatible Software	NMS
Mobile applications	RxCamView (iPhone, Android)







Vandal Proof IP Camera NVIP-5VE-4501

OTHER	CILIN	CTI	ANC

Operating Temperature

Humidity

OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Audio Detection	yes
Video Content Analysis (VCA)	abandoned object, object disappearance, line cross, zone entrance, zone exit, multi loiter, cross counting, heat map, queue length detection, objects distinguishing
Image Processing	180° image rotation, vertical flip, horizontal flip
Prealarm/Postalarm	up to 5 s/up to 30 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, saving in the cloud storage
Restoring default settings	via web browser, using reset button
IR LED	
LED Number	2
Range	30 m
Smart IR	yes (hardware support)
INTERFACES	
Audio Input/Output	built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	
Dimensions (mm)	100 (Ф) x 90 (H)
Weight	0.43 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	vandalproof aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	2 W • 4 W (IR illuminator on)

-30°C ~ 55°C

max. 95%, relative (non-condensing)







Vandal Proof IP Camera with Motor-zoom Lens

NVIP-5VE-4502M





KEY FEATURES















- •Resolution: 5 MPX
- *Lens: motorized, auto-focus function, f=2.8 \sim 12 mm/F1.8
- •support for Chrome, Firefox, Opera, Safari browsers
- •D/N function IR cut filter
- •Video content analysis based on Deep Learning
- •microSD card support
- •WDR with double scan sensor
- •two-way audio
- •Min. Illumination: 0.03 lx (0 lx, IR on)
- \bullet IR LED, range up to 45 m $\,$
- "Two way power" when connected to a PoE switch, it allows to power the low power receiver from the camera's power socket

DIMENSIONS







IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2880 (H) x 1620 (V)
Min. Illumination	0.03 lx/F1.2 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, f=2.8 \sim 12 mm/F1.8
Auto-focus	zoom trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter	
Switching Mode	auto, manual, time	
Switching Delay	1 ~ 36 s	
Visible Light Sensor	yes	

NETWORK

Stream Resolution	2880 x 1620, 2560 x 1440 (QHD), 2304 x 1296, 2048 x 1536 (QXGA), 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA)
Frame Rate	30 fps for each resolution
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+/G.711
Number of Simultaneous Connec	tionsmax. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SNMP, SMTP, P2P, HTML5
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer, Firefox, Chrome, Opera, Safari browser • languages: Polish, English, Russian, and others
Compatible Software	NMS







Vandal Proof IP Camera with Motor-zoom Lens NVIP-5VE-4502M

Mobile applications	RxCamView (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Audio Detection	yes
Video Content Analysis (VCA)	abandoned object, object disappearance, line cross, zone entrance, zone exit, multi loiter, cross counting, heat map, queue length detection, objects distinguishing
Image Processing	180° image rotation, vertical flip, horizontal flip
Prealarm/Postalarm	up to 5 s/up to 30 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, saving in the cloud storage
Restoring default settings	via web browser, using reset button
IR LED	
LED Number	4
Range	45 m
Smart IR	yes (hardware support)
INTERFACES	
Audio Input/Output	1 x RCA/1 x RCA
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	
Dimensions (mm)	135 (Ф) x 128 (Н)
Weight	0.9 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	vandalproof aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	3 W • 6 W (IR illuminator on)
Operating Temperature	-30°C ~ 55°C
Humidity	max. 95%, relative (non-condensing)







Vandal Proof IP Camera with Motor-zoom Lens

NVIP-5VE-4502M/F





KEY FEATURES



















- •Resolution: 5 MPX
- •Lens: motorized, auto-focus function, f=2.7 ~ 13.5 mm/F1.8
- •support for Chrome, Firefox, Opera, Safari browsers
- •D/N function IR cut filter
- •Video content analysis based on Deep Learning
- •microSD card support
- •WDR with double scan sensor
- •two-way audio
- •Min. Illumination: 0.03 lx (0 lx, IR on)
- •IR LED, range up to 45 m
- "Two way power" when connected to a PoE switch, it allows to power the low power receiver from the camera's power socket

DIMENSIONS









IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" OmniVision
Number of Effective Pixels	2592 (H) x 1944 (V)
Min. Illumination	0.03 lx/F1.2 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, f=2.7 ~ 13.5 mm/F1.8
Auto-focus	zoom trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter	
Switching Mode	auto, manual, time	
Switching Delay	1 ~ 36 s	
Visible Light Sensor	yes	

NETWORK

Stream Resolution	2592 x 1944, 2592 x 1520, 2304 x 1296, 2048 x 1536 (QXGA), 1920 x 1080 (Full HD), 1280 x 960, 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA)
Frame Rate	30 fps for each resolution
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+/G.711
Number of Simultaneous Conne	ectionsmax. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SNMP, SMTP, P2P, HTML5
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer, Firefox, Chrome, Opera, Safari browser • languages: Polish, English, Russian, and others
Compatible Software	NMS





Vandal Proof IP Camera with Motor-zoom Lens **NVIP-5VE-4502M/F**

Mobile applications	RxCamView (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Audio Detection	yes
Video Content Analysis (VCA)	abandoned object, object disappearance, line cross, zone entrance, zone exit, multi loiter, cross counting, heat map, queue length detection, objects distinguishing, face recognition, comparing faces
Image Processing	180° image rotation, vertical flip, horizontal flip
Prealarm/Postalarm	up to 5 s/up to 30 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, alarm output activation, saving in the cloud storage
Restoring default settings	via web browser, using reset button
IR LED	
LED Number	4
Range	45 m
Smart IR	yes (hardware support)
INTERFACES	
Audio Input/Output	1 x RCA/1 x RCA
Alarm Input/Output	1 (NO/NC)/1 relay type
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	
Dimensions (mm)	135 (Ф) x 128 (Н)
Weight	0.9 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	vandalproof aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	3 W • 6 W (IR on)
Operating Temperature	-30°C ~ 55°C
Humidity	max. 95%, relative (non-condensing)

A memory card is required for the face recognition function to work.







Bullet IP Camera NVIP-5H-4501





KEY FEATURES

















- •Resolution: 5 MPX
- •Lens: fixed focal, f=2.8 mm/F1.6
- •support for Chrome, Firefox, Opera, Safari browsers
- •D/N function IR cut filter
- •Video content analysis based on Deep Learning
- •microSD card support
- $\bullet \mathsf{WDR} \mathsf{\ with\ double\ scan\ sensor}$
- •Min. Illumination: 0.03 lx (0 lx, IR on)
- •IR LED, range up to 30 m
- "Two way power" when connected to a PoE switch, it allows to power the low power receiver from the camera's power socket

DIMENSIONS





IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2880 (H) x 1620 (V)
Min. Illumination	0.03 lx/F1.2 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, f=2.8 mm/F1.6
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DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Delay	1 ~ 36 s
Visible Light Sensor	yes

Stream Resolution	2880 x 1620, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA)
Frame Rate	30 fps for each resolution
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+/G.711
Number of Simultaneous Conne	ctionsmax. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP UPnP, SMTP, P2P, HTML5
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer, Firefox, Chrome, Opera, Safari browser • languages: Polish, English, Russian, and others
Compatible Software	NMS
Mobile applications	RxCamView (iPhone, Android)









Bullet IP Camera **NVIP-5H-4501**

OTHER FUNCTION	S
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Operating Temperature

Humidity

OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Audio Detection	yes
Video Content Analysis (VCA)	abandoned object, object disappearance, line cross, zone entrance, zone exit, multi loiter, cross counting, heat map, queue length detection, objects distinguishing
Image Processing	180° image rotation, vertical flip, horizontal flip
Prealarm/Postalarm	up to 5 s/up to 30 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, saving in the cloud storage
Restoring default settings	via web browser, using reset button
IR LED	
LED Number	2
Range	30 m
Smart IR	yes (hardware support)
INTERFACES	
Audio Input/Output	built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	
Dimensions (mm)	with bracket: 71 (Φ) x 150 (L)
Weight	0.4 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	2 W • 4 W (IR illuminator on)

-30°C ~ 55°C

max. 95%, relative (non-condensing)







Bullet IP Camera with Motor-zoom Lens **NVIP-5H-4502M**





KEY FEATURES















- •Resolution: 5 MPX
- *Lens: motorized, auto-focus function, f=2.8 \sim 12 mm/F1.8
- •support for Chrome, Firefox, Opera, Safari browsers
- •D/N function IR cut filter
- •Video content analysis based on Deep Learning
- •microSD card support
- •WDR with double scan sensor
- •two-way audio
- •Min. Illumination: 0.03 lx (0 lx, IR on)
- \bullet IR LED, range up to 45 m $\,$
- "Two way power" when connected to a PoE switch, it allows to power the low power receiver from the camera's power socket

DIMENSIONS



IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2880 (H) x 1620 (V)
Min. Illumination	0.03 lx/F1.2 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, f=2.8 ~ 12 mm/F1.8
Auto-focus	zoom trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Delay	1 ~ 36 s
Visible Light Sensor	yes

NETWORK

2880 x 1620, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA)	
30 fps for each resolution	
3 streams	
H.264, H.264+, H.265, H.265+/G.711	
tionsmax. 10	
60 Mb/s in total	
HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SNMP, SMTP, P2P, HTML5	
Profile S/G	
from Internet Explorer, Firefox, Chrome, Opera, Safari browser • languages: Polish, English, Russian, and others	
NMS	
RxCamView (iPhone, Android)	









Bullet IP Camera with Motor-zoom Lens NVIP-5H-4502M

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Operating Temperature

Humidity

OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Audio Detection	yes
Video Content Analysis (VCA)	abandoned object, object disappearance, line cross, zone entrance, zone exit, multi loiter, cross counting, heat map, queue length detection, objects distinguishing
Image Processing	180° image rotation, vertical flip, horizontal flip
Prealarm/Postalarm	up to 5 s/up to 30 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, saving in the cloud storage
Restoring default settings	via web browser, using reset button
IR LED	
LED Number	4
Range	45 m
Smart IR	yes (hardware support)
INTERFACES	
Audio Input/Output	1 x RCA/1 x RCA
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	
Dimensions (mm)	with bracket: 87 (W) x 83 (H) x 242 (L)
Weight	0.82 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	3 W • 6 W (IR illuminator on)

-30°C ~ 55°C

max. 95%, relative (non-condensing)







Bullet IP Camera with Motor-zoom Lens NVIP-5H-4502M/F





KEY FEATURES

















- •Resolution: 5 MPX
- •Lens: motorized, auto-focus function, f=2.7 \sim 13.5 mm/F1.8
- •support for Chrome, Firefox, Opera, Safari browsers
- •D/N function IR cut filter
- •Video content analysis based on Deep Learning
- microSD card support
- •WDR with double scan sensor
- •two-way audio
- •Min. Illumination: 0.03 lx (0 lx, IR on)
- •IR LED, range up to 45 m
- •"Two way power" when connected to a PoE switch, it allows to power the low power receiver from the camera's power socket

DIMENSIONS



IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" OmniVision
Number of Effective Pixels	2592 (H) x 1944 (V)
Min. Illumination	0.03 lx/F1.2 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, f=2.7 ~ 13.5 mm/F1.8	
Auto-focus	zoom trigger, manual trigger	

DAY/NIGHT

Switching Type	mechanical IR cut filter	
Switching Mode	auto, manual, time	
Switching Delay	1 ~ 36 s	
Visible Light Sensor	yes	

NETWORK

Stream Resolution	2592 x 1944, 2592 x 1520, 2304 x 1296, 2048 x 1536 (QXGA), 1920 x 1080 (Full HD), 1280 x 960, 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA)
Frame Rate	30 fps for each resolution
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+/G.711
Number of Simultaneous Conne	ctionsmax. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SNMP, SMTP, P2P, HTML5
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer, Firefox, Chrome, Opera, Safari browser • languages: Polish, English, Russian, and others
Compatible Software	NMS
Mobile applications	RxCamView (iPhone, Android)









Bullet IP Camera with Motor-zoom Lens NVIP-5H-4502M/F

OTHER FUNCTIONS

OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Audio Detection	yes
Video Content Analysis (VCA)	abandoned object, object disappearance, line cross, zone entrance, zone exit, multi loiter, cross counting, heat map, queue length detection, objects distinguishing, face recognition, comparing faces
Image Processing	180° image rotation, vertical flip, horizontal flip
Prealarm/Postalarm	up to 5 s/up to 30 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, alarm output activation, saving in the cloud storage
Restoring default settings	via web browser, using reset button
IR LED	
LED Number	4
Range	45 m
Smart IR	yes (hardware support)
INTERFACES	
Audio Input/Output	1 x RCA/1 x RCA
Alarm Input/Output	1 (NO/NC)/1 relay type
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	
Dimensions (mm)	with bracket: 87 (W) x 83 (H) x 242 (L)
Weight	0.82 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	2 W • 5 W (IR on)
Operating Temperature	-30°C ~ 55°C

A memory card is required for the face recognition function to work.

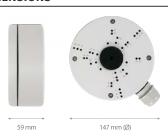






Wall/ceiling mount bracket indoor/outdoor **NVB-4000JB**





Туре	wall/ceiling mount adapter with cable gland, indoor/outdoor
Application	4000 series IP cameras and also 3000 series AHD cameras (detailed compatibility list available as a file to download in section "Downloadable Files")
Material	aluminium
Color	white
Load Capacity	3 kg
Dimensions (mm)	147 φ x 59 (height)
Weight	0.45 kg







Wall/ceiling mount bracket indoor/outdoor **NVB-4005JB**





land, indoor/outdoor
ls of camera (detailed list of can be found on the website
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Wall/ceiling mount bracket indoor/outdoor **NVB-4010JB**





Туре	wall/ceiling mount adapter with cable gland, indoor/outdoor
Application	Selected 2000, 3000, 4000 and 6000 series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	white
Load Capacity	3 kg
Dimensions (mm)	100 φ x 60 (height)
Weight	0.34 kg





wall/ceiling mount bracket, indoor/outdoor

NVB-4015JB





wall/ceiling mount adapter with cable gland, indoor/outdoor
2000 and 4000 series IP cameras and also 3000 series AHD cameras (detailed compatibility list available as a file to download in section "Downloadable Files")
glass fiber reinforced polyamide
white
IP 66
140 (W) x 149 (H) x 67 (D)
0.5 kg







Wall mount bracket, indor/outdoor

NVB-4000WB





wall mount cable-managed bracket, indoor/outdoor
a detailed list of compatible cameras and other products can be found in the file available in the "Downloadable Files" section
aluminium
white
2 kg
132 (W) x 75 (H) x 155 (D)
0.52 kg



Wall mount bracket, indor/outdoor

NVB-4010WB





Туре	wall mount cable-managed bracket, indoor/outdoor
Application	a detailed list of compatible cameras and other products can be found in the file available in the "Downloadable Files" section
Material	aluminium
Color	white
Load Capacity	2 kg
Dimensions (mm)	163 (W) x 75 (H) x 187 (D)
Weight	0.83 kg







Wall mount bracket, indor/outdoor

NVB-4020WB





wall mount cable-managed bracket, indoor/outdoor
for mounting the NVS-4020JBD adapter on the wall (accessory kit: NVB-4020WB and NVB-4020C)
aluminium
white
10 kg
95 (W) x 180 (H) x 310 (L)
1.1 kg







Wall mount bracket, indor/outdoor

NVB-4020C





Туре	adapter-plate, indoor/outdoor
Application	for mounting the NVS-4020JBD adapter on the wall (accessory kit: NVB-4020WB and NVB-4020C) $$
Material	glass fiber reinforced polyamide
Color	white
Load Capacity	10 kg
Dimensions (mm)	160 (W) x 55 (H) x 315 (L)
Weight	0.47 kg









Wall/ceiling adapter with built-in PoE switch NVS-4020JBD



KEY FEATURES

- •2 x 100Mb/s PoE
- •1 x 100Mb/s UPLINK

DIMENSIONS



GENERAL

Managed	no
Device Type	PoE Switch
NETWORK	
Ports	PoE Ports: 2 x 10Mb/s / 100Mb/s • UPLINK ports: 1 x 10Mb/s / 100Mb/s
PoE standards	IEEE802.3 af, IEEE802.3 at
Surge protection	Maximum voltage: 4kV
Switching capacity	1 Gb/s
FUNCTIONS	

Surge protection yes

INSTALLATION PARAMETERS

Case	Glass fiber reinforced polyamide, color white
Dimensions (mm)	310 (W) x 70 (H) x 156 (L)
Weight	1.2 g
Degree of Protection	IP 66 (details in the user's manual)
Input Voltage	PoE+
Power Consumption	30 W (maximum)
PoE Budget	25 W for ports 1 to 2, up to 15 W for one port
Operating Temperature	-30°C ~ 60°C
Humidity	max. 90%, relative (non-condensing)











IP Recorder

NVR-4108-H1





KEY FEATURES









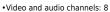












- •Supported protocols: ONVIF
- •Recording speed up to 240 fps at 2592 x 1944
- Recorded stream size: 64 Mb/s in total from all cameras
- •Internal HDDs mount: 1
- •Monitor outputs: 2 (HDMI, VGA)
- •Intelligent image analysis

DIMENSIONS



VIDEO

VIDEO	
IP Cameras	up to 8 channels at 2592 x 1944 resolution (video + audio)
Maximum Supported Camera Resolution	2592 x 1944
Compression	H.264, H.264+, H.265, H.265+
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI, 1 x VGA (up to 2 monitors simultaneously)
Dualstreaming Support	yes
AUDIO	
Audio Input/Output	- / 1 x HDMI, 1 x line-out (RCA)
RECORDING	
Recording Speed	240 fps (8 x 30 fps for 2592 x 1944)
Stream Size	64 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, alarm input, motion detection, intelligent image analysis functions, PIR alarm
Prealarm/Postalarm	up to 3 s/up to 600 s
DISPLAY	
Display Speed	240 fps (8 x 30 fps)
PLAYBACK	
Playback Speed	240 fps (8 x 30 fps)
Recorded Data Search	by date/time, events, image analysis events, motion in a defined area, tags
BACKUP	
Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	JPG, BMP, PNG, MP4, AVI, RF
STORAGE	
Internal Storage	available mount: 1 x HDD 3.5" 8 TB SATA
Total Internal Capacity	8 TB
ALARM	
Camera Alarm Input/Output	supports camera's alarm input/output
System Reaction to Alarm Events	buzzer, e-mail, alarm output activation, screen message, recording activation, PTZ, Full Screen, FTP picture upload, FTP video upload, picture to Cloud, video to Cloud











IP Recorder NVR-4108-H1

Supported Functions	Exception, Tripwire, Zone entrance, Abandoned Object, Object
	Disappearance, Face Detection, Pedestrian Detection, Cross
	Counting, Sound detection

NETWORK	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, SMTP, P2P
PC/MAC Software	NMS, Internet Explorer, NHDR-5000 Viewer/NHDR-5000 Viewer
Mobile applications	RxCamView (iPhone, Android)
Number of Simultaneous Conne	ctionsup to 40 clients
Bandwidth	48 Mb/s in total to all client workstations
PTZ	
PTZ Functions	pan/tilt/zoom, preset commands, patterns

AUXILIARY INTERFACES

USB Ports 2 x USB 2.0

OPERATING SYSTEM

Operating System	Linux
OSD	languages: Polish, English, others
Control	PC mouse and IR remote controller (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering

INSTALLATION PARAMETERS

Dimensions (mm)	300 (W) x 53 (H) x 227 (D)
Weight	1.1 kg (without HDD)
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)
Power Consumption	20 W (with 1 HDD)
Operating Temperature	-10°C ~ 55°C

Intelligent image analysis, dualstream mode, PTZ control, motion detection and alarm inputs / outputs functions depends on the functionality of the camera and the capabilities of the communication protocol. The recorder is dedicated to work with Novus 2000 and 4000 series IP cameras and achieves the best functionality with them. Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES tab. Display and playback speeds are achieved using dual stream.







IP Recorder

NVR-4116-H1/F-II





KEY FEATURES

























- •Video and audio channels: 16
- •Supported protocols: ONVIF
- •Recording speed up to 480 fps at 3840 x 2160
- Recorded stream size: 112 Mb/s in total from all cameras
- •Internal HDDs mount: 1
- •Monitor outputs: 2 (HDMI (4K UltraHD), VGA)
- $\bullet \textit{Face recognition}$

DIMENSIONS



VIDEO

IP Cameras	up to 16 channels at 3840 x 2160 resolution (video + audio)
Maximum Supported Camera Resolution	3840 x 2160 • 3000 x 3000 for fisheye cameras
Compression	H.264, H.264+, H.265, H.265+
Monitor Output	main (split screen, full screen, sequence): $1 \times VGA$, $1 \times HDMI$ (4K UltraHD) (up to 2 monitors simultaneously)
Dualstreaming Support	yes
Fisheye Support	using Internet Explorer, RXCamView, NHDR-5000Viewer, N Control 4000
AUDIO	

	Audio Input/Output	- / 1 x HDMI, 1 x line-out (RCA)
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RECORDING

Recording Speed	480 fps (16 x 30 fps for 3840 x 2160 and lower)
Stream Size	112 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, alarm input, motion detection, face recognition, intelligent image analysis functions, PIR alarm
Prealarm/Postalarm	up to 3 s/up to 600 s

DISPLAY

Display Speed	480 fps (16 x 30 fps)
Display Speca	400 lp3 (10 x 30 lp3)

PLAYBACK

Playback Speed	480 fps (16 x 30 fps)
Recorded Data Search	by date/time, events, image analysis events, motion in a defined area, related to face recognition, tags

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	JPG, BMP, PNG, MP4, AVI, RF

STORAGE

Internal Storage	available mount: 1 x HDD 3.5" 8 TB SATA	
Total Internal Capacity	8 TB	
External storage	network HDD (NFS or SMB/CIFS)	
Total External Capacity	64 TB	

ALARM

Camera Alarm Innut/Outnut	supports IP camera's alarm input/output









IP Recorder NVR-4116-H1/F-II

System Reaction to Alarm Events

buzzer, e-mail, alarm output activation, screen message, recording activation, PTZ, Full Screen, FTP picture upload, FTP video upload, picture to Cloud, video to Cloud, voice prompt

picture to cloud, video to cloud, voice pro

INTELLIGENT IMAGE ANALYSIS

Supported Functions	Exception, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Crowd detection, Face Detection, Face Recognition (in cooperation with selected 4000 series cameras), Pedestrian Detection, Cross Counting, Sound detection, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, Objects Distinguishing, Queue Lenght
	Detection, Heat Map, Cross Counting by pedestrian or vehicle

NETWORK

Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s	
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, PPPoE, SMTP, P2P, HTML5	
PC/MAC Software	NMS, Internet Explorer, NHDR-5000 Viewer, Firefox, Chrome, Opera, Edge, N Control 4000/Safari, NHDR-5000 Viewer	
Mobile applications	RxCamView (iPhone, Android)	
Number of Simultaneous Connectionsup to 32 users, each user up to 5 devices		
Bandwidth	96 Mb/s in total to all client workstations	

PTZ

PTZ Functions	pan/tilt/zoom,	preset	commands,	patterns

AUXILIARY INTERFACES

USB Ports 2 x USB 2.0

OPERATING SYSTEM

Operating System	Linux	
OSD	languages: Polish, English, others	
Control	PC mouse and IR remote controller (in-set included), network	
System Diagnostic	automatic control of: HDDs, network, camera connection loss	
Security	password protection, IP filtering	

INSTALLATION PARAMETERS

Dimensions (mm)	300 (W) x 53 (H) x 227 (D)
Weight	1.1 kg (without HDD)
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)
Power Consumption	20 W (with 1 HDD)
Operating Temperature	-10°C ~ 45°C

In order to take full advantage of the recorder capabilities it is recommended to use NOVUS IP 4000 series cameras.

The availability of individual functions (including face recognition) depends on the model of cameras used as well as the software version of the recorder and cameras.

In order to create face recognition system please deploy 4000 series cameras with "F" in the model name only.

Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES tab.

Display and playback speeds are achieved using dual stream.







IP Recorder

NVR-4532-H4/F





KEY FEATURES





















- •Video and audio channels: 32
- •Supported protocols: ONVIF
- •Recording speed up to 960 fps at 3840 x 2160
- Recorded stream size: 320 Mb/s in total from all cameras
- •Internal HDDs mount: 4
- •Monitor outputs: 2 (HDMI (4K UltraHD), VGA)
- •Face recognition

DIMENSIONS



326 mm





VIDEO

IP Cameras	up to 32 channels at 3840 x 2160 resolution (video + audio)	
Maximum Supported Camera Resolution	3840 x 2160 • 3000 x 3000 for fisheye cameras	
Compression	H.264, H.264+, H.265, H.265+	
Monitor Output	main (split screen, full screen, sequence): 1 x VGA, 1 x HDMI (4K UltraHD) (up to 2 monitors simultaneously) • spot: 1 x VGA (FullHD)	
Dualstreaming Support	yes	
Fisheye Support	yes, 2000/4000 IP series cameras	
AUDIO		
Audio Input/Output	1 x line-in (RCA) / 1 x HDMI, 1 x line-out (RCA)	
RECORDING		
Recording Speed	960 fps (32 x 30 fps for 3840 x 2160 and lower)	
Stream Size	320 Mb/s in total from all cameras	
Recording Mode	time-lapse, triggered by: manual, alarm input, motion detection, face recognition, intelligent image analysis functions, PIR alarm	
Prealarm/Postalarm	up to 3 s/up to 600 s	
DISPLAY		
Display Speed	960 fps (32 x 30 fps)	
PLAYBACK		
Playback Speed	480 fps (16 x 30 fps)	
Recorded Data Search	by date/time, events, image analysis events, motion in a defined area, related to face recognition, tags	
BACKUP		
Backup Methods	USB port (HDD or Flash memory), network	
Backup File Format	JPG, BMP, PNG, MP4, AVI, RF	
STORAGE		
Internal Storage	available mount: 4 x HDD 3.5" 14 TB SATA	
Total Internal Capacity	56 TB	
External storage	1 x eSATA	
Total External Capacity	32 TB	
ALARM		
Internal Alarm Input/Output	16/1 relay type	
Camera Alarm Input/Output	supports camera's alarm input/output	









IP Recorder NVR-4532-H4/F

System Reaction to Alarm Events

buzzer, e-mail, alarm output activation, screen message, recording activation, PTZ, Full Screen, FTP picture upload, FTP video upload,

picture to Cloud, video to Cloud

INTELLIGENT IMAGE ANALYSIS

Supported Functions	Exception, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Face Detection, Pedestrian Detection, Cross Counting, Face Recognition, Sound detection, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by
	pedestrian or vehicle

NETWORK

Network Interface	2 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s	
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, PPP0E, SMTP, P2P	
PC/MAC Software	NMS, Internet Explorer, NHDR-5000 Viewer/NHDR-5000 Viewer	
Mobile applications	RxCamView (iPhone, Android)	
Number of Simultaneous Conne	ectionsup to 96 clients	
Bandwidth	320 Mb/s in total to all client workstations	

PTZ

PTZ Functions	pan/tilt/zoom.	preset comp	nands, patterns

AUXILIARY INTERFACES

USB Ports	1 x USB 3.0 2 x USB 2.0
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OPERATING SYSTEM

Operating System	Linux
OSD	languages: Polish, English, others
Control	PC mouse and IR remote controller (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering

INSTALLATION PARAMETERS

Dimensions (mm)	378 (W) x 66 (H) x 326 (D)
Weight	2.5 kg (without HDDs)
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)
Power Consumption	60 W (with 4 HDDs)
Operating Temperature	-10°C ~ 45°C

Intelligent image analysis, dualstream mode, PTZ control, motion detection and alarm inputs / outputs functions depends on the functionality of the camera and the capabilities of the communication protocol. The recorder is dedicated to work with Novus 2000 and 4000 series IP cameras and achieves the best functionality with them. Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES tab. Display and playback speeds are achieved using dual stream.

One of the functions: SPOT monitor, Face Recognition can be switched on at the same time.







IP Recorder

NVR-4204P4-H1/F





KEY FEATURES











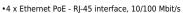












- •Video and audio channels: 4
- •Supported protocols: ONVIF
- •Recording speed up to 120 fps at 3840 x 2160
- •Recorded stream size: 50 Mb/s in total from all cameras
- •Internal HDDs mount: 1
- •Monitor outputs: 2 (HDMI (4K UltraHD), VGA)
- •Intelligent image analysis

DIMENSIONS



VIDEO

IP Cameras	up to 4 channels at 3840 x 2160 resolution (video + audio)
Maximum Supported Camera Resolution	3840 x 2160
Compression	H.264, H.264+, H.265, H.265+
Monitor Output	main (split screen, full screen, sequence): 1 x VGA, 1 x HDMI (4K UltraHD) (up to 2 monitors simultaneously)
Dualstreaming Support	yes
AUDIO	
Audio Input/Output	- / 1 x HDMI, 1 x line-out (RCA)
RECORDING	
Recording Speed	120 fps (4 x 30 fps for 3840 x 2160 and lower)
Stream Size	50 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, alarm input, motion detection, perimeter intrusion detection, intelligent image analysis functions, PIR alarm
Prealarm/Postalarm	up to 3 s/up to 600 s
DISPLAY	
Display Speed	120 fps (4 x 30 fps)
PLAYBACK	
Playback Speed	120 fps (4 x 30 fps)
Recorded Data Search	by date/time, events, object appearance/disappearance, image analysis events, motion in a defined area, tags
BACKUP	
Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	JPG, BMP, PNG, MP4, AVI, RF
STORAGE	
Internal Storage	available mount: 1 x HDD 3.5" 14 TB SATA
Total Internal Capacity	14 TB
ALARM	
Camera Alarm Input/Output	supports camera's alarm input/output
System Reaction to Alarm Events	buzzer, e-mail, alarm output activation, screen message, recording activation, PTZ, Full Screen, FTP picture upload, FTP video upload, picture to Cloud, video to Cloud











IP Recorder NVR-4204P4-H1/F

Supported Functions	Exception, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Face Detection, Pedestrian Detection, Cross Counting, Sound detection, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle
NETWORK	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s • 4 x Ethernet PoE - RJ-45 interface, 10/100 Mbit/s with Extended mode
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, PPPoE, SMTP, P2P
PC/MAC Software	NMS, Internet Explorer, NHDR-5000 Viewer/NHDR-5000 Viewer
Mobile applications	RxCamView (iPhone, Android)
Number of Simultaneous Conne	ectionsup to 40 clients
Bandwidth	50 Mb/s in total to all client workstations
PTZ	
PTZ Functions	pan/tilt/zoom, preset commands, patterns
AUXILIARY INTERFACES	
USB Ports	2 x USB 2.0
OPERATING SYSTEM	
Operating System	Linux
Operating System OSD	Linux languages: Polish, English, others
OSD	languages: Polish, English, others
OSD Control	languages: Polish, English, others PC mouse and IR remote controller (in-set included), network
OSD Control System Diagnostic	languages: Polish, English, others PC mouse and IR remote controller (in-set included), network automatic control of: HDDs, network, camera connection loss password protection, IP filtering
OSD Control System Diagnostic Security	languages: Polish, English, others PC mouse and IR remote controller (in-set included), network automatic control of: HDDs, network, camera connection loss password protection, IP filtering
OSD Control System Diagnostic Security INSTALLATION PARAMETI	languages: Polish, English, others PC mouse and IR remote controller (in-set included), network automatic control of: HDDs, network, camera connection loss password protection, IP filtering
OSD Control System Diagnostic Security INSTALLATION PARAMETI Dimensions (mm)	languages: Polish, English, others PC mouse and IR remote controller (in-set included), network automatic control of: HDDs, network, camera connection loss password protection, IP filtering ERS 300 (W) x 53 (H) x 227 (D)
OSD Control System Diagnostic Security INSTALLATION PARAMETI Dimensions (mm) Weight	languages: Polish, English, others PC mouse and IR remote controller (in-set included), network automatic control of: HDDs, network, camera connection loss password protection, IP filtering ERS 300 (W) x 53 (H) x 227 (D) 1.1 kg (without HDD)

Intelligent image analysis, dualstream mode, PTZ control, motion detection and alarm inputs / outputs functions depends on the functionality of the camera and the capabilities of the communication protocol. The recorder is dedicated to work with Novus 2000 and 4000 series IP cameras and achieves the best functionality with them. Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES tab. Display and playback speeds are achieved using dual stream.







IP Recorder

NVR-4204P4-H1/F-II





KEY FEATURES

























- •4 x Ethernet PoE RJ-45 interface, 10/100 Mbit/s
- •Video and audio channels: 4
- •Supported protocols: ONVIF
- •Recording speed up to 120 fps at 3840 x 2160
- Recorded stream size: 50 Mb/s in total from all cameras
- •Internal HDDs mount: 1
- •Monitor outputs: 2 (HDMI (4K UltraHD), VGA)
- •Face recognition

DIMENSIONS



VIDEO

IP Cameras	up to 4 channels at 3840 x 2160 resolution (video + audio)
Maximum Supported Camera Resolution	3840 x 2160 • 3000 x 3000 for fisheye cameras
Compression	H.264, H.264+, H.265, H.265+
Monitor Output	main (split screen, full screen, sequence): $1 \times VGA$, $1 \times HDMI$ (4K UltraHD) (up to 2 monitors simultaneously)
Dualstreaming Support	yes
Fisheye Support	using Internet Explorer, RXCamView, NHDR-5000Viewer, N Control 4000

AUDIO

Audio Input/Output	- / 1 x HDMI, 1 x line-out (RCA)
Addio ilipat/Output	- / I A HDMI, I A IIIC-OUL (NCA)

RECORDING

Recording Speed	120 fps (4 x 30 fps for 3840 x 2160 and lower)
Stream Size	50 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, alarm input, motion detection, face recognition, intelligent image analysis functions, PIR alarm
Prealarm/Postalarm	up to 3 s/up to 600 s

DISPLAY

Display Speed	120 fps (4 x 30 f	fns)
Display Speed	120 IDS (4 X 30 I	ı D:

PLAYBACK

Playback Speed	120 fps (4 x 30 fps)
Recorded Data Search	by date/time, events, image analysis events, motion in a defined area, related to face recognition, tags

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	JPG, BMP, PNG, MP4, AVI, RF

STORAGE

Internal Storage	available mount: 1 x HDD 3.5" 8 TB SATA
Total Internal Capacity	8 TB
External storage	network HDD (NFS or SMB/CIFS)
Total External Capacity	64 TB

ALARM

Camera Alarm Innut/Outnut	supports IP camera's alarm input/output







IP Recorder NVR-4204P4-H1/F-II

System Reaction to Alarm Events

Supported Functions

buzzer, e-mail, alarm output activation, screen message, recording activation, PTZ, Full Screen, FTP picture upload, FTP video upload, picture to Cloud, video to Cloud, voice prompt

Exception, Tripwire, Zone entrance, Abandoned Object, Object

INTELLIGENT IMAGE ANALYSIS

Supported Functions	Disappearance, Crowd detection, Face Detection, Face Recognition (in cooperation with selected 4000 series cameras), Pedestrian Detection, Cross Counting, Sound detection, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, Objects Distinguishing, Queue Lenght Detection, Heat Map, Cross Counting by pedestrian or vehicle
NETWORK	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s • 4 x Ethernet PoE - RJ-45 interface, 10/100 Mbit/s with Extended mode
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, PPPoE, SMTP, P2P, HTML5
PC/MAC Software	NMS, Internet Explorer, NHDR-5000 Viewer, Firefox, Chrome, Opera, Edge, N Control 4000/Safari, NHDR-5000 Viewer
Mobile applications	RxCamView (iPhone, Android)
Number of Simultaneous Connec	tionsup to 32 users, each user up to 5 devices
Bandwidth	48 Mb/s in total to all client workstations
PTZ	
PTZ Functions	pan/tilt/zoom, preset commands, patterns
AUXILIARY INTERFACES	
USB Ports	2 x USB 2.0
OPERATING SYSTEM	
Operating System	Linux
OSD	languages: Polish, English, others
Control	PC mouse and IR remote controller (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering

INSTALLATION PARAMETERS

Dimensions (mm)	300 (W) x 53 (H) x 227 (D)
Weight	1.1 kg (without HDD)
Power Supply	48 VDC (100 ~ 240 VAC/48 VDC PSU in-set included)
Power Consumption	20 W (with 1 HDD) + 45 W PoE
Operating Temperature	-10°C ~ 45°C

In order to take full advantage of the recorder capabilities it is recommended to use NOVUS IP 4000 series cameras.

The availability of individual functions (including face recognition) depends on the model of cameras used as well as the software version of the recorder and cameras.

In order to create face recognition system please deploy 4000 series cameras with "F" in the model name only.

Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES tab.

Display and playback speeds are achieved using dual stream.







IP Recorder

NVR-4408P8-H1/F-II





KEY FEATURES























- •Video and audio channels: 8
- •Supported protocols: ONVIF
- •Recording speed up to 240 fps at 3840 x 2160
- •Recorded stream size: 128 Mb/s in total from all cameras
- •Internal HDDs mount: 1
- •Monitor outputs: 2 (HDMI (4K UltraHD), VGA)
- •Face recognition

DIMENSIONS



VIDEO	
IP Cameras	up to 8 channels at 3840 x 2160 resolution (video + audio)
Maximum Supported Camera Resolution	3840 x 2160 • 3000 x 3000 for fisheye cameras
Compression	H.264, H.264+, H.265, H.265+
Monitor Output	main (split screen, full screen, sequence): $1 \times VGA$, $1 \times HDMI$ (4K UltraHD) (up to 2 monitors simultaneously)
Dualstreaming Support	yes
AUDIO	
Audio Input/Output	- / 1 x HDMI, 1 x line-out (RCA)
RECORDING	
Recording Speed	240 fps (8 x 30 fps for 3840 x 2160 and lower)
Stream Size	128 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, alarm input, motion detection, intelligent image analysis functions, PIR alarm
Prealarm/Postalarm	up to 3 s/up to 600 s
DISPLAY	
Display Speed	240 fps (8 x 30 fps)

วร (ช	X	30	tps
)S (8	15 (8 X	s (8 x 30

PLAYBACK

Playback Speed	240 fps (8 x 30 fps)
Recorded Data Search	by date/time, events, image analysis events, motion in a defined area, related to face recognition, tags

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	JPG, BMP, PNG, MP4, AVI, RF

STORAGE

Internal Storage	available mount: 1 x HDD 3.5" 10 TB SATA
Total Internal Capacity	10 TB

ALARM		
Camera Alarm Input/Output	supports camera's alarm input/output	
System Reaction to Alarm Events	buzzer, e-mail, screen message, recording activation, PTZ, Full Screen, FTP picture upload, FTP video upload, picture to Cloud, video to Cloud	

INTELLIGENT IMAGE ANALYSIS









IP Recorder NVR-4408P8-H1/F-II

Supported Functions	Exception, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Crowd detection, Face Detection, Pedestrian Detection, Cross Counting, Face Recognition, People Counting, Sound detection, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, Objects Distinguishing Queue Lenght Detection, Heat Map		
NETWORK			
Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s • 8 x Ethernet Pol RJ-45 interface, 10/100 Mbit/s with Extended mode		
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, SMTP, P2P, HTML5		
PC/MAC Software	NMS, Internet Explorer, NHDR-5000 Viewer, Firefox, Chrome, Opera, Edge/Safari, NHDR-5000 Viewer		
Mobile applications	RxCamView (iPhone, Android)		
Number of Simultaneous Conn	ectionsup to 40 clients		
Bandwidth	128 Mb/s in total to all client workstations		
PTZ			
PTZ Functions	pan/tilt/zoom, preset commands, patterns		
AUVU IARV INTEREACES			
USB Ports	2 x USB 2.0		
OSB FOILS	2 X 03b 2.0		
OPERATING SYSTEM			
OF ERATING STSTEM			
Operating System	Linux		
	Linux languages: Polish, English, others		
Operating System	·		
Operating System OSD	languages: Polish, English, others		
Operating System OSD Control	languages: Polish, English, others PC mouse and IR remote controller (in-set included), network		
Operating System OSD Control System Diagnostic	languages: Polish, English, others PC mouse and IR remote controller (in-set included), network automatic control of: HDDs, network, camera connection loss password protection, IP filtering		
Operating System OSD Control System Diagnostic Security	languages: Polish, English, others PC mouse and IR remote controller (in-set included), network automatic control of: HDDs, network, camera connection loss password protection, IP filtering		
Operating System OSD Control System Diagnostic Security INSTALLATION PARAMET	languages: Polish, English, others PC mouse and IR remote controller (in-set included), network automatic control of: HDDs, network, camera connection loss password protection, IP filtering		
Operating System OSD Control System Diagnostic Security INSTALLATION PARAMET Dimensions (mm)	languages: Polish, English, others PC mouse and IR remote controller (in-set included), network automatic control of: HDDs, network, camera connection loss password protection, IP filtering TERS 300 (W) x 53 (H) x 227 (D)		
Operating System OSD Control System Diagnostic Security INSTALLATION PARAMET Dimensions (mm) Weight	languages: Polish, English, others PC mouse and IR remote controller (in-set included), network automatic control of: HDDs, network, camera connection loss password protection, IP filtering FERS 300 (W) x 53 (H) x 227 (D) 1.1 kg (without HDD)		

Intelligent image analysis, dualstream mode, PTZ control, motion detection and alarm inputs / outputs functions depends on the functionality of the camera and the capabilities of the communication protocol. The recorder is dedicated to work with Novus 2000 and 4000 series IP cameras and achieves the best functionality with them. Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES tab. Display and playback speeds are achieved using dual stream.







NoVus

IP Recorder

NVR-4416P16-H2/F-II





KEY FEATURES





















- •16 x Ethernet PoE RJ-45 interface, 10/100 Mbit/s
- •Video and audio channels: 16
- •Supported protocols: ONVIF
- •Recording speed up to 480 fps at 3840 x 2160
- •Recorded stream size: 112 Mb/s in total from all cameras
- •Internal HDDs mount: 2
- •Monitor outputs: 2 (HDMI (4K UltraHD), VGA)
- $\bullet \mathsf{Face}\ \mathsf{recognition}$

DIMENSIONS





VIDEO

VIDEO		
IP Cameras	up to 16 channels at 3840 x 2160 resolution (video + audio)	
Maximum Supported Camera Resolution	3840 x 2160 • 3000 x 3000 for fisheye cameras	
Compression	H.264, H.264+, H.265, H.265+	
Monitor Output	main (split screen, full screen, sequence): 1 x VGA, 1 x HDMI (4K UltraHD) (up to 2 monitors simultaneously)	
Dualstreaming Support	yes	
AUDIO		
Audio Input/Output	1 x line-in (RCA) / 1 x HDMI, 1 x line-out (RCA)	
RECORDING		
Recording Speed	480 fps (16 x 30 fps for 3840 x 2160 and lower)	
Stream Size	112 Mb/s in total from all cameras	
Recording Mode	time-lapse, triggered by: manual, alarm input, motion detection, intelligent image analysis functions, PIR alarm	
Prealarm/Postalarm	up to 3 s/up to 600 s	
DISPLAY		
Display Speed	480 fps (16 x 30 fps)	
PLAYBACK		
Playback Speed	480 fps (16 x 30 fps)	
Recorded Data Search	by date/time, events, image analysis events, motion in a defined area, related to face recognition, tags	
BACKUP		
Backup Methods	USB port (HDD or Flash memory), network	
Backup File Format	JPG, BMP, PNG, MP4, AVI, RF	
STORAGE		
Internal Storage	available mount: 2 x HDD 3.5" 8 TB SATA	
Total Internal Capacity	16 TB	
ALARM		
Camera Alarm Input/Output	supports IP camera's alarm input/output	



to Cloud

System Reaction to Alarm Events





buzzer, e-mail, screen message, recording activation, PTZ, Full $\,$

Screen, FTP picture upload, FTP video upload, picture to Cloud, video





IP Recorder NVR-4416P16-H2/F-II

Supported Functions	Exception, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Crowd detection, Face Detection, Pedestrian Detection, Cross Counting, Face Recognition, People Counting, Sound detection, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, Objects Distinguishing Queue Lenght Detection, Heat Map	
NETWORK		
Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s • 16 x Ethernet PoE - RJ-45 interface, 10/100 Mbit/s with Extended mode	
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, PPPoE, SMTP, P2P, HTML5	
PC/MAC Software	NMS, Internet Explorer, NHDR-5000 Viewer, Firefox, Chrome, Opera, Edge/Safari, NHDR-5000 Viewer	
Mobile applications	RxCamView (iPhone, Android)	
Number of Simultaneous Conn	ectionsup to 40 clients	
Bandwidth	112 Mb/s in total to all client workstations	
PTZ		
PTZ Functions	pan/tilt/zoom, preset commands, patterns	
AUXILIARY INTERFACES		
USB Ports	2 x USB 2.0,	
OPERATING SYSTEM		
Operating System	Linux	
OSD	languages: Polish, English, others	
002	languages: Polish, English, others	
Control	languages: Polish, English, others PC mouse and IR remote controller (in-set included), network	
Control	PC mouse and IR remote controller (in-set included), network	
Control System Diagnostic	PC mouse and IR remote controller (in-set included), network automatic control of: HDDs, network, camera connection loss password protection, IP filtering	
Control System Diagnostic Security	PC mouse and IR remote controller (in-set included), network automatic control of: HDDs, network, camera connection loss password protection, IP filtering	
Control System Diagnostic Security INSTALLATION PARAMET	PC mouse and IR remote controller (in-set included), network automatic control of: HDDs, network, camera connection loss password protection, IP filtering	
Control System Diagnostic Security INSTALLATION PARAMET Dimensions (mm)	PC mouse and IR remote controller (in-set included), network automatic control of: HDDs, network, camera connection loss password protection, IP filtering FERS 300 (W) x 53 (H) x 297 (D)	
Control System Diagnostic Security INSTALLATION PARAMET Dimensions (mm) Weight	PC mouse and IR remote controller (in-set included), network automatic control of: HDDs, network, camera connection loss password protection, IP filtering TERS 300 (W) x 53 (H) x 297 (D) 1.5 kg (without HDDs)	

Intelligent image analysis, dualstream mode, PTZ control, motion detection and alarm inputs / outputs functions depends on the functionality of the camera and the capabilities of the communication protocol. The recorder is dedicated to work with Novus 2000 and 4000 series IP cameras and achieves the best functionality with them. Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES tab. Display and playback speeds are achieved using dual stream.

Face recognition and HTML5 functionality available from the firmware V8.1.0-20210930.

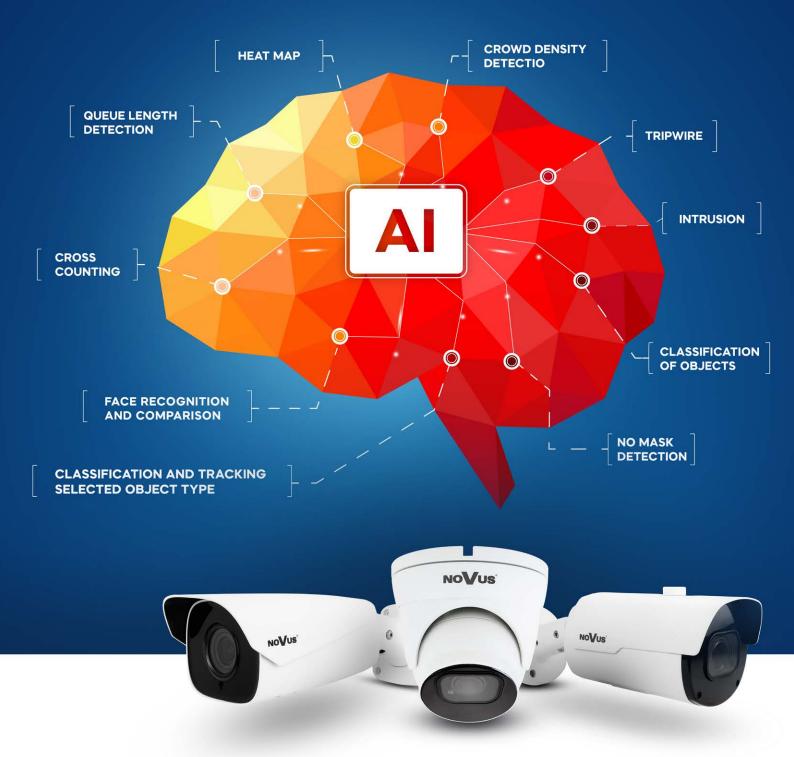






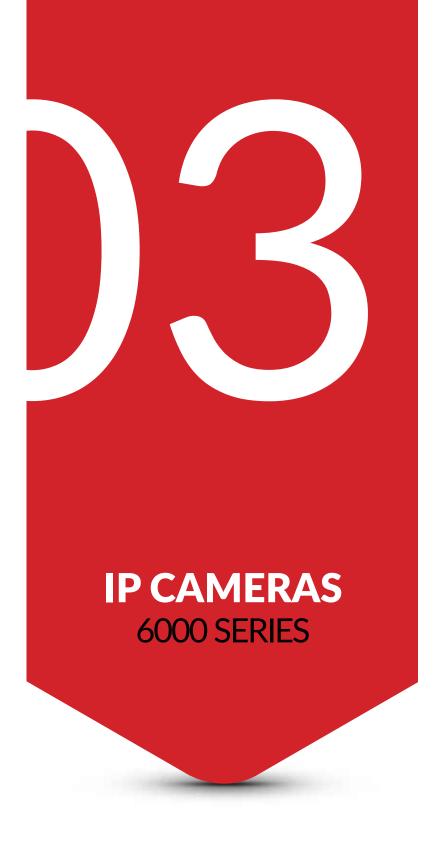














Cube IP camera

NVIP-2Q-6101/PIR/W





KEY FEATURES





















- •Resolution: 2 MPX
- •Lens: fixed focal, f=2.8 mm/F1.85
- •D/N function IR cut filter
- Video content analysis
- •reduction of false alarms PIR detector
- •microSD card support
- •two-way audio
- •Min. Illumination: 0.007 lx (0 lx, IR on)
- \bullet IR LED, range up to 10 m $\,$

DIMENSIONS







IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.7" SmartSens		
Number of Effective Pixels	1936 (H) x 1096 (V)		
Min. Illumination	0.007 lx/F1.2 - color mode • 0 lx (IR on) - B/W mode		
Electronic Shutter	auto: 1 s ~ 1/100000 s		
Digital Slow Shutter (DSS)	up to 1 s		
Digital Noise Reduction (DNR)	3D		
Defog Function (F-DNR)	yes		
Back Light Compensation (BLC)	yes		
Reduction of image flicker (Antiflicker)	yes		

LENS

Lens Type

DAY/NIGHT		
Switching Type	mechanical IR cut filter	
Switching Mode	auto, manual, time	
Switching Level Adjustment	yes	
Switching Delay	2 ~ 120 s	

yes

fixed focal, f=2.8 mm/F1.85

NETWORK

Visible Light Sensor

NEIWORK				
Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 704 x 576, 480 x 240, 352 288 (CIF) 25 fps for each resolution			
Frame Rate				
Multistreaming Mode	3 streams			
Video/Audio Compression	H.264, H.265, MJPEG/G.711			
Number of Simultaneous Connec	ctionsmax. 4			
Bandwidth	8 Mb/s in total			
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, UPnP, QoS, IEEE 802.1X, PPPoE, SMTP, P2P, SSL/TLS			
ONVIF Protocol Support	Profile S			
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russia and others			
Compatible Software	NMS			
Mobile applications	SuperLive Plus (iPhone, Android)			









Cube IP camera NVIP-2Q-6101/PIR/W

Network standard	IEEE802.11b, g, n			
Band	2.4GHz			
Security	WEP, WPA-PSK/WPA2-PSK			
Transmission range	up to 50 m			
Antenna	built-in, omnidirectional			
OTHER FUNCTIONS				
Privacy Zones	4			
Motion Detection	yes			
PIR detector	range up to 7 m			
Region of interest (ROI)	3			
Video Content Analysis (VCA)	line cross, zone entrance			
Image Processing	90° image rotation, 180° image rotation, mirror effect, corridor mod vertical flip, horizontal flip			
Prealarm/Postalarm	up to 6 s/up to 120 s			
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, alarm output activation			
Restoring default settings	via web browser, using reset button, via NMS IPTool software			
IR LED				
LED Number	1			
Range	10 m			
Range Angle				
	10 m			
Angle	10 m 120°			
Angle Smart IR	10 m 120°			
Angle Smart IR INTERFACES	10 m 120° yes (software support)			
Angle Smart IR INTERFACES Audio Input/Output	10 m 120° yes (software support) built-in microphone/speaker			
Angle Smart IR INTERFACES Audio Input/Output Alarm Input/Output	10 m 120° yes (software support) built-in microphone/speaker 1 (NO/NC)/1 relay type			
Angle Smart IR INTERFACES Audio Input/Output Alarm Input/Output Network Interface	10 m 120° yes (software support) built-in microphone/speaker 1 (NO/NC)/1 relay type 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s • Wireless (WiFi)			
Angle Smart IR INTERFACES Audio Input/Output Alarm Input/Output Network Interface Memory Card Slot	10 m 120° yes (software support) built-in microphone/speaker 1 (NO/NC)/1 relay type 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s • Wireless (WiFi)			
Angle Smart IR INTERFACES Audio Input/Output Alarm Input/Output Network Interface Memory Card Slot INSTALLATION PARAMETERS	10 m 120° yes (software support) built-in microphone/speaker 1 (NO/NC)/1 relay type 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s • Wireless (WiFi) microSD - capacity up to 128GB			
Angle Smart IR INTERFACES Audio Input/Output Alarm Input/Output Network Interface Memory Card Slot INSTALLATION PARAMETERS Dimensions (mm)	10 m 120° yes (software support) built-in microphone/speaker 1 (NO/NC)/1 relay type 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s • Wireless (WiFi) microSD - capacity up to 128GB 63 (W) x 109 (H) x 30 (L) • with bracket: 72 (W) x 130 (H) x 72 (L)			
Angle Smart IR INTERFACES Audio Input/Output Alarm Input/Output Network Interface Memory Card Slot INSTALLATION PARAMETERS Dimensions (mm) Weight	10 m 120° yes (software support) built-in microphone/speaker 1 (NO/NC)/1 relay type 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s • Wireless (WiFi) microSD - capacity up to 128GB 63 (W) x 109 (H) x 30 (L) • with bracket: 72 (W) x 130 (H) x 72 (L) 0.2 kg			
Angle Smart IR INTERFACES Audio Input/Output Alarm Input/Output Network Interface Memory Card Slot INSTALLATION PARAMETERS Dimensions (mm) Weight Enclosure	10 m 120° yes (software support) built-in microphone/speaker 1 (NO/NC)/1 relay type 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s • Wireless (WiFi) microSD - capacity up to 128GB 63 (W) x 109 (H) x 30 (L) • with bracket: 72 (W) x 130 (H) x 72 (L) 0.2 kg plastic, black and white, wall mount/base in-set included			
Angle Smart IR INTERFACES Audio Input/Output Alarm Input/Output Network Interface Memory Card Slot INSTALLATION PARAMETERS Dimensions (mm) Weight Enclosure Power Supply	10 m 120° yes (software support) built-in microphone/speaker 1 (NO/NC)/1 relay type 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s • Wireless (WiFi) microSD - capacity up to 128GB 63 (W) x 109 (H) x 30 (L) • with bracket: 72 (W) x 130 (H) x 72 (L) 0.2 kg plastic, black and white, wall mount/base in-set included PoE, 12 VDC			
Angle Smart IR INTERFACES Audio Input/Output Alarm Input/Output Network Interface Memory Card Slot INSTALLATION PARAMETERS Dimensions (mm) Weight Enclosure Power Supply Surge protection	10 m 120° yes (software support) built-in microphone/speaker 1 (NO/NC)/1 relay type 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s • Wireless (WiFi) microSD - capacity up to 128GB 63 (W) x 109 (H) x 30 (L) • with bracket: 72 (W) x 130 (H) x 72 (L) 0.2 kg plastic, black and white, wall mount/base in-set included PoE, 12 VDC TVS 4000 V			

The declared range of the WiFi network is based on laboratory research and relates to open spaces. It should be noted, that the materials used for the construction of houses and flats, wall thickness and electromagnetic field conditions in the immediate surroundings may affect the range of the network.

max. 95%, relative (non-condensing)







Humidity

Vandal Proof IP Camera

NVIP-2VE-6231-II





KEY FEATURES

















83 mm

- •Resolution: 2 MPX
- •Lens: fixed focal, f=2.8 mm/F1.6
- •built-in microphone
- •D/N function IR cut filter
- Video content analysis
- microSD card support
- •Min. Illumination from 0.008 lx (0 lx, IR on)
- •IR LED, range up to 30 m

DIMENSIONS







IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SmartSens
Number of Effective Pixels	1928 (H) x 1088 (V)
Min. Illumination	0.008 lx/F1.6 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto: 1/3 s ~ 1/100000 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, f=2.8 mm/F1.6
-----------	----------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK			
Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 320 x 24 (QVGA)		
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions		
Multistreaming Mode	2 streams		
Video/Audio Compression	H.264, H.264+, H.265, H.265+, MJPEG/G.711		
Number of Simultaneous Conne	ctionsmax. 3		
Bandwidth	9 Mb/s in total		
Network Protocols Support	HTTP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP		
ONVIF Protocol Support	Profile S		
Camera Configuration	from Internet Explorer browser • languages: Polish, English, and others		
Compatible Software	NMS, N Control 6000		
Mobile applications	SuperLive Plus (iPhone, Android)		







Vandal Proof IP Camera NVIP-2VE-6231-II

OTHER	CILIN	CTI	ANC

OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	abandoned object, object disappearance, line cross, Scene Change, intrusion detection
Image Processing	sharpening, mirror effect, vertical flip, horizontal flip
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card $$
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	1
Range	30 m
Smart IR	yes (software support)
INTERFACES	
Audio Input/Output	1 x Jack (3.5 mm)/- built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	
Dimensions (mm)	95 (Φ) x 83 (H)
Weight	0.5 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white
Power Supply	12 VDC, PoE (IEEE 802.3af, Class 3)
Surge protection	TVS 4000 V
Power Consumption	3 W • 5.5 W (IR illuminator on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)







NoVus

Vandal IP camera

NVIP-2VE-6232





KEY FEATURES

















100 mm

- •Resolution: 2 MPX
- •Lens: varifocal, f=2.8 ~ 12 mm/F1.4
- •built-in microphone
- •D/N function IR cut filter
- Video content analysis
- •microSD card support
- •Min. Illumination from 0.004 lx (0 lx, IR on)
- \bullet IR LED, range up to 50 m $\,$

DIMENSIONS







IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SmartSens
Number of Effective Pixels	1920 (H) x 1080 (V)
Min. Illumination	0.004 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/2 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	varifocal, $f=2.8 \sim 12 \text{ mm/F1.4}$
Lens Type	varifocal, $t=2.8 \sim 12 \text{ mm/F1}$.

DAY/NIGHT

DAT/MOTT	
Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)	
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions	
Multistreaming Mode	3 streams	
Video/Audio Compression	H.264, H.265, MJPEG/G.711	
Number of Simultaneous Connectionsmax. 3		
Bandwidth	15 Mb/s in total	
Network Protocols Support	HTTP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, UPnP, QoS, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP	
ONVIF Protocol Support	Profile S/G	
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others	







Vandal IP camera NVIP-2VE-6232

Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	3
Video Content Analysis (VCA)	tamper, line cross, Scene Change, Video Blurred, intrusion detection
Image Processing	mirror effect, vertical flip, horizontal flip
Prealarm/Postalarm	-/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	2
Range	50 m
INTERFACES	
Audio Input/Output	built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB
INSTALLATION PARAMETERS	
Dimensions (mm)	112 (Φ) x 100 (H)
Weight	0.65 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	3 W • 8 W (IR illuminator on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)







NoVus

Vandal Proof IP Camera

NVIP-2VE-6232-II/7043





KEY FEATURES

















- •Lens: varifocal, f=2.8 ~ 12 mm/F1.4
- •built-in microphone
- •D/N function IR cut filter
- •Video content analysis
- microSD card support
- •Min. Illumination: 0.008 lx (0 lx, IR on)
- \bullet IR LED, range up to 50 m $\,$

DIMENSIONS



100 mm

112 mm (Ø)



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SmartSens
Number of Effective Pixels	1928 (H) x 1088 (V)
Min. Illumination	0.006 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	varifocal, $f=2.8 \sim 12 \text{ mm/F}1.4$
Lens Type	varnocal, i 210 12 million 111

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+, MJPEG/G.711
Number of Simultaneous Connectionsmax. 3	
Bandwidth	9 Mb/s in total
Network Protocols Support	HTTP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP
ONVIF Protocol Support	Profile S
Camera Configuration	from Internet Explorer, Firefox, Chrome, Opera, Safari browser • languages: Polish, English, and others
Compatible Software	NMS, N Control 6000





Vandal Proof IP Camera NVIP-2VE-6232-II/7043

Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	abandoned object, object disappearance, line cross, Scene Change, intrusion detection
Image Processing	sharpening, mirror effect, vertical flip, horizontal flip
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card $$
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	2
Range	50 m
Smart IR	yes (software support)
INTERFACES	
Audio Input/Output	1 x Jack (3.5 mm)/- built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	
Dimensions (mm)	112 (Ф) x 100 (Н)
Weight	0.7 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, grey
Power Supply	12 VDC, PoE (IEEE 802.3af, Class 3)
Surge protection	TVS 4000 V
Power Consumption	3 W • 7.5 W (IR illuminator on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)







NoVus

Bullet IP Camera NVIP-2H-6231-II





KEY FEATURES

















- •Resolution: 2 MPX
- •Lens: fixed focal, f=2.8 mm/F1.6
- •D/N function IR cut filter
- •Video content analysis
- microSD card support
- •Min. Illumination: 0.008 lx (0 lx, IR on)
- \bullet IR LED, range up to 30 m $\,$

DIMENSIONS



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SmartSens
Number of Effective Pixels	1928 (H) x 1088 (V)
Min. Illumination	0.008 lx/F1.6 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

fixed focal, f=2.8 mm/F1.6

DAY/NIGHT

•	
Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK	
Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+, MJPEG/G.711
Number of Simultaneous Conne	ectionsmax. 3
Bandwidth	9 Mb/s in total
Network Protocols Support	HTTP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP
ONVIF Protocol Support	Profile S
Camera Configuration	from Internet Explorer browser • languages: Polish, English, and others
Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)









Bullet IP Camera NVIP-2H-6231-II

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OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	abandoned object, object disappearance, line cross, Scene Change, intrusion detection
Image Processing	sharpening, mirror effect, vertical flip, horizontal flip
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card $$
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	1
Range	30 m
Smart IR	yes (software support)
INTERFACES	
Audio Input/Output	1 x Jack (3.5 mm)/-
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	
Dimensions (mm)	with bracket: 75 (W) x 75 (H) x 170 (L)
Weight	0.4 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included , IK10 impact rating
Power Supply	12 VDC, PoE (IEEE 802.3af, Class 3)
Surge protection	TVS 4000 V
Power Consumption	3 W • 5.5 W (IR illuminator on)
Operating Temperature	-30°C ~ 60°C

max. 95%, relative (non-condensing)







Humidity

Bullet IP Camera

NVIP-2H-6231-II/7043





KEY FEATURES

















- •Resolution: 2 MPX
- •Lens: fixed focal, f=2.8 mm/F1.6
- •D/N function IR cut filter
- •Video content analysis
- microSD card support
- •Min. Illumination: 0.008 lx (0 lx, IR on)
- \bullet IR LED, range up to 30 m $\,$

DIMENSIONS









IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SmartSens
Number of Effective Pixels	1928 (H) x 1088 (V)
Min. Illumination	0.008 lx/F1.6 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, $f=2.8 \text{ mm/F}1.6$
Lens Type	fixed focal, $t=2.8 \text{ mm/F1.6}$

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK	
Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+, MJPEG/G.711
Number of Simultaneous Connectionsmax. 3	
Bandwidth	9 Mb/s in total
Network Protocols Support	HTTP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP
ONVIF Protocol Support	Profile S
Camera Configuration	from Internet Explorer browser $ullet$ languages: Polish, English, and others
Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)









Bullet IP Camera NVIP-2H-6231-II/7043

OTHER FUNCTIONS

OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	abandoned object, object disappearance, line cross, Scene Change, intrusion detection
Image Processing	sharpening, mirror effect, vertical flip, horizontal flip
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card $$
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	1
Range	30 m
Smart IR	yes (software support)
	Association of the Association o
INTERFACES	
Audio Input/Output	1 x Jack (3.5 mm)/-
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	
Dimensions (mm)	with bracket: 75 (W) x 75 (H) x 170 (L)
Weight	0.4 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, grey, fully cable managed wall mount bracket in-set included , IK10 impact rating
Power Supply	12 VDC, PoE (IEEE 802.3af, Class 3)
Surge protection	TVS 4000 V
Power Consumption	3 W • 5.5 W (IR illuminator on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)







NoVus

Bullet IP Camera NVIP-2H-6232

6000



KEY FEATURES

















- •Resolution: 2 MPX
- •Lens: varifocal, f=2.8 ~ 12 mm/F1.4
- •MicroSD card support
- •D/N function IR cut filter
- Video content analysis
- •Min. Illumination from 0.004 lx (0 lx, IR on)
- \bullet IR LED, range up to 50 m $\,$

DIMENSIONS



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SmartSens
Number of Effective Pixels	1920 (H) x 1080 (V)
Min. Illumination	0.004 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/2 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	varifocal, $f=2.8 \sim 12 \text{ mm/F}1.4$

DAY/NIGHT

DAT/NIGHT	
Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.265, MJPEG/G.711
Number of Simultaneous Conne	ectionsmax. 3
Bandwidth	15 Mb/s in total
Network Protocols Support	HTTP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, UPnP, QoS, IEEE 802.1X, PPPoE, SMTP
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others







Bullet IP Camera NVIP-2H-6232

Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	3
Video Content Analysis (VCA)	tamper, line cross, Scene Change, Video Blurred, intrusion detection
Image Processing	mirror effect, vertical flip, horizontal flip
Prealarm/Postalarm	-/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	2
Range	50 m
INTERFACES	
Audio Input/Output	1 x Jack (3.5 mm)/-
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB
INSTALLATION PARAMETERS	
Dimensions (mm)	with bracket: 81 (W) x 81 (H) x 220 (L)
Weight	0.66 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included , IK10 impact rating
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	3 W • 8 W (IR illuminator on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)







Bullet IP Camera

NVIP-2H-6232-II/7043





KEY FEATURES

















- •Resolution: 2 MPX
- •Lens: varifocal, f=2.8 ~ 12 mm/F1.4
- •MicroSD card support
- •D/N function IR cut filter
- Video content analysis
- •Min. Illumination from 0.006 lx (0 lx, IR on)
- •IR LED, range up to 50 m

DIMENSIONS





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220 mm

IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SmartSens
Number of Effective Pixels	1928 (H) x 1088 (V)
Min. Illumination	0.006 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type varifocal, $f=2.8 \sim 12 \text{ mm/F}1.4$

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

METWORK	
Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+, MJPEG/G.711
Number of Simultaneous Conne	ectionsmax. 3
Bandwidth	9 Mb/s in total
Network Protocols Support	HTTP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP
ONVIF Protocol Support	Profile S
Camera Configuration	from Internet Explorer browser • languages: Polish, English, and others
Compatible Software	NMS, N Control 6000







Bullet IP Camera NVIP-2H-6232-II/7043

Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	abandoned object, object disappearance, line cross, Scene Change, intrusion detection
Image Processing	sharpening, mirror effect, vertical flip, horizontal flip
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card $$
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	2
Range	50 m
Smart IR	yes (software support)
INTERFACES	
Audio Input/Output	1 x Jack (3.5 mm)/-
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	
Dimensions (mm)	with bracket: 81 (W) x 81 (H) x 220 (L)
Weight	0.66 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, grey, fully cable managed wall mount bracket in-set included , IK10 impact rating
Power Supply	12 VDC, PoE (IEEE 802.3af, Class 3)
Surge protection	TVS 4000 V
Power Consumption	3 W • 7.5 W (IR illuminator on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)







Dome IP Camera for internal use with video content analysis based on Deep Learning

NVIP-2D-6502/F





KEY FEATURES



















96 mm



- •Resolution: 2 MPX
- •Lens: varifocal, f=2.8 ~ 12 mm/F1.4
- •D/N function IR cut filter
- ·Video content analysis
- microSD card support
- •WDR with double scan sensor
- •Min. Illumination from 0.0038 lx (0 lx, IR on)
- •IR LED, range up to 30 m

DIMENSIONS







IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SONY STARVIS
Number of Effective Pixels	1920 (H) x 1080 (V)
Min. Illumination	0.0038 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/10000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	varifocal, $f=2.8 \sim 12 \text{ mm/F}1.4$

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Schedule	yes
Visible Light Sensor	yes

Camera Configuration

Compatible Software

NETWORK	
Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 704 x 576, 480 x 240, 352 x 288 (CIF)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Conne	ctionsmax. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP
ONVIF Protocol Support	Profile S

and others

NMS, NVR-6000 Viewer



from Internet Explorer browser • languages: Polish, English, Russian,





Dome IP Camera for internal use with video content analysis based on Deep Learning NVIP-2D-6502/F

Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, line cross, zone entrance, zone exit, object counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, face recognition
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, alarm output activation
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	30
Range	30 m
Angle	90°
Smart IR	yes (software support)
INTERFACES	
Audio Input/Output	1 x Jack (3.5 mm)/1 x Jack (3.5 mm) built-in microphone
Alarm Input/Output	1 (NO/NC)/1 relay type
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB
INSTALLATION PARAMETERS	
Dimensions (mm)	122 (Ф) x 96 (Н)
Weight	0.38 kg
Enclosure	plastic, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	3 W • 6 W (IR on)
Operating Temperature	-10°C ~ 40°C
Humidity	max. 95%, relative (non-condensing)







IP Camera with video content analysis based on Deep Learning

NVIP-2V-6501/F





KEY FEATURES





















- •Resolution: 2 MPX (Full HD)
- •Lens: fixed focal, f=2.8 mm/F1.6
- Human/Vehicle Object Classification
- •D/N function IR cut filter
- •Video content analysis based on Deep Learning
- $\hbox{-microSD card support}\\$
- $\bullet \mathsf{WDR} \mathsf{\ with\ double\ scan\ sensor}$
- •Min. Illumination: 0.005 lx (0 lx, IR on)
- •IR LED, range up to 30 m

DIMENSIONS





IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SONY STARVIS
Number of Effective Pixels	1945 (H) x 1097 (V)
Min. Illumination	0.005 lx/F1.6 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, f=2.8 mm/F1.6
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DAY/NIGHT

DAT/MOTT	
Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

ONVIF Protocol Support

Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Conne	ctionsmax. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast

Profile S/G









IP Camera with video content analysis based on Deep Learning NVIP-2V-6501/F

Camera Configuration	from Internet Explorer browser \bullet languages: Polish, English, Russian, and others
Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color or 1 video mask type: mosaic
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, pedestrian detection, cross counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle detection, vehicle counting
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	1
Range	30 m
Angle	120°
Smart IR	yes (software support)
INTERFACES	
Audio Input/Output	1 x Jack (3.5 mm)/- built-in microphone
Alarm Input/Output	1 (NO/NC)/1 relay type
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB
INSTALLATION PARAMETERS	
Dimensions (mm)	119 (Φ) x 87.8 (H)
Weight	0.65 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	5 W • 7.5 W (IR on)
Operating Temperature	-30°C ~ 60°C







IP Motor-zoom Camera with video content analysis based on Deep Learning

NVIP-2V-6502M/F





KEY FEATURES





















- •Lens: motorized, auto-iris and auto-focus function, $f=2.8 \sim 12 \text{ mm/F1.4}$
- Human/Vehicle Object Classification
- •D/N function IR cut filter
- •Video content analysis based on Deep Learning
- •microSD card support
- •WDR with double scan sensor
- •Min. Illumination: 0.003 lx (0 lx, IR on)
- •IR LED, range up to 50 m

DIMENSIONS







IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SONY STARVIS
Number of Effective Pixels	1920 (H) x 1080 (V)
Min. Illumination	0.003 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, auto-iris function, f=2.8 \sim 12 mm/F1.4
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NEIWORK	
Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Conne	ctionsmax. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS
ONVIF Protocol Support	Profile S/G









IP Motor-zoom Camera with video content analysis based on Deep Learning NVIP-2V-6502M/F

Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color or 1 video mask type: mosaic
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, pedestrian detection, cross counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle detection, vehicle counting
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	3
Range	50 m
Angle	90°
Smart IR	yes (hardware support)
INTERFACES	
Video Output	BNC, 1.0 Vp-p, 75 Ohm
Audio Input/Output	1 x Jack (3.5 mm)/1 x Jack (3.5 mm) built-in microphone
Alarm Input/Output	1 (NO/NC)/1 relay type
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	
Dimensions (mm)	141 (Φ) x 100.2 (H)
Weight	0.89 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof lK10 impact rating aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	7 W • 9 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)







IP Camera with video content analysis based on Deep Learning

NVIP-2VE-6501/F





KEY FEATURES





















- •Resolution: 2 MPX (Full HD)
- •Lens: fixed focal, f=2.8 mm/F1.6
- Human/Vehicle Object Classification
- •D/N function IR cut filter
- •Video content analysis based on Deep Learning
- microSD card support
- $\bullet \mathsf{WDR} \mathsf{\ with\ double\ scan\ sensor}$
- •Min. Illumination: 0.005 lx (0 lx, IR on)
- •IR LED, range up to 30 m

DIMENSIONS









IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SONY STARVIS
Number of Effective Pixels	1945 (H) x 1097 (V)
Min. Illumination	0.005 lx/F1.6 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Conne	ctionsmax. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS
ONVIE Protocol Support	Profile S/G





IP Camera with video content analysis based on Deep Learning NVIP-2VE-6501/F

Camera Configuration	from Internet Explorer browser \bullet languages: Polish, English, Russian, and others
Compatible Software	NMS, NVR-6000 Viewer
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color or 1 video mask type: mosaic
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, pedestrian detection, cross counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle detection, vehicle counting
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	1
Range	30 m
Angle	120°
Smart IR	yes (software support)
INTERFACES	
Audio Input/Output	1 x Jack (3.5 mm)/- built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB
INSTALLATION PARAMETERS	
Dimensions (mm)	95 (Φ) x 83 (H)
Weight	0.5 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	5 W • 7.5 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)







IP Motor-zoom Camera with video content analysis based on Deep Learning

NVIP-2VE-6502M/F





KEY FEATURES



















100 mm



- •Resolution: 2 MPX
- •Lens: motorized, auto-iris and auto-focus function,
- Human/Vehicle Object Classification
- •D/N function IR cut filter
- •Video content analysis based on Deep Learning
- •microSD card support
- •WDR with double scan sensor
- •Min. Illumination: 0.003 lx (0 lx, IR on)
- •IR LED, range up to 50 m

DIMENSIONS







IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SONY STARVIS
Number of Effective Pixels	1945 (H) x 1097 (V)
Min. Illumination	0.003 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, auto-iris function, f=2.8 \sim 12 mm/F1.4
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

METWORK	
Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Conne	ctionsmax. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS
ONVIF Protocol Support	Profile S/G







IP Motor-zoom Camera with video content analysis based on Deep Learning NVIP-2VE-6502M/F

OTHER FUNCTIONS Privacy Zones 4 Motion Detection ye Region of interest (ROI) 8	amper, abandoned object, object disappearance, line cross, zone ntrance, zone exit, object counting, face detection, pedestrian
OTHER FUNCTIONS Privacy Zones 4 Motion Detection ye Region of interest (ROI) 8	video mask type: single color or 1 video mask type: mosaic es amper, abandoned object, object disappearance, line cross, zone ntrance, zone exit, object counting, face detection, pedestrian
Privacy Zones 4 Motion Detection year Region of interest (ROI) 8	es amper, abandoned object, object disappearance, line cross, zone ntrance, zone exit, object counting, face detection, pedestrian
Motion Detection yet Region of interest (ROI) 8	es amper, abandoned object, object disappearance, line cross, zone ntrance, zone exit, object counting, face detection, pedestrian
Region of interest (ROI) 8	amper, abandoned object, object disappearance, line cross, zone ntrance, zone exit, object counting, face detection, pedestrian
	amper, abandoned object, object disappearance, line cross, zone ntrance, zone exit, object counting, face detection, pedestrian
\".\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ntrance, zone exit, object counting, face detection, pedestrian
er de Ca	etection, cross counting, Scene Change, Video Blurred, Video Color ast, objects distinguishing, people counting, vehicle detection, ehicle counting
Image Processing 18	80° image rotation, sharpening, mirror effect, corridor mode, ertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm up	p to 6 s/up to 120 s
	-mail, e-mail with attachment, saving file on FTP server, saving file n SD card
Restoring default settings vi	ia web browser, using reset button, via NMS IPTool software
IR LED	
LED Number 2	
Range 50	0 m
Angle 90	0°
Smart IR ye	es (software support)
INTERFACES	
Audio Input/Output 1	x Jack (3.5 mm)/- built-in microphone
Network Interface 1	x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot m	nicroSD - capacity up to 128GB
INSTALLATION PARAMETERS	
Dimensions (mm)	12 (Ф) x 100 (H)
Weight 0.	.7 kg
Degree of Protection IP	P 67 (details in the user's manual)
Enclosure va	andalproof IK10 impact rating aluminium, white
Power Supply Po	oE, 12 VDC
Surge protection TV	VS 4000 V
Power Consumption 6	W • 11 W (IR on)
Operating Temperature -3	30°C ~ 60°C
Humidity m	nax. 95%, relative (non-condensing)







IP Camera with video content analysis based on Deep Learning

NVIP-2H-6511/F





KEY FEATURES





















- •Resolution: 2 MPX (Full HD)
- •Lens: fixed focal, f=2.8 mm/F1.6
- Human/Vehicle Object Classification
- •D/N function IR cut filter
- •Video content analysis based on Deep Learning
- •microSD card support
- $\bullet \mathsf{WDR} \mathsf{\ with\ double\ scan\ sensor}$
- •Min. Illumination: 0.005 lx (0 lx, IR on)
- \bullet IR LED, range up to 50 m $\,$

DIMENSIONS



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SONY STARVIS
Number of Effective Pixels	1945 (H) x 1097 (V)
Min. Illumination	0.005 lx/F1.6 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

ONVIF Protocol Support

METWORK	
Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Conne	ectionsmax. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, SNMP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS

Profile S/G









IP Camera with video content analysis based on Deep Learning NVIP-2H-6511/F

Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, NVR-6000 Viewer
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color or 1 video mask type: mosaic
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, pedestrian detection, cross counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle detection, vehicle counting
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	2
Range	50 m
Angle	90°
Smart IR	yes (software support)
INTERFACES	
Audio Input/Output	1 x Jack (3.5 mm)/-
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB
INSTALLATION PARAMETERS	
Dimensions (mm)	with bracket: 81 (W) x 81 (H) x 220 (L)
Weight	0.7 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included , IK10 impact rating
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	6 W • 10 W (IR on)
Operating Temperature	-30°C ~ 60°C







IP Motor-zoom Camera with video content analysis based on Deep Learning

NVIP-2H-6502M/F





KEY FEATURES





















- •Resolution: 2 MPX (Full HD)
- •Lens: motorized, auto-iris and auto-focus function,
- Human/Vehicle Object Classification
- •D/N function IR cut filter
- •Video content analysis based on Deep Learning
- microSD card support
- •WDR with double scan sensor
- •Min. Illumination: 0.003 lx (0 lx, IR on)
- •IR LED, range up to 50 m

DIMENSIONS



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SONY STARVIS
Number of Effective Pixels	1945 (H) x 1097 (V)
Min. Illumination	0.003 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, auto-iris function, f=2.8 \sim 12 mm/F1.4
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

ONVIF Protocol Support

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

Stream Resolution	1030 × 1000 (Full LID) 1300 × 730 (LID) 640 × 400 (UCA) 400 × 340
Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Conne	ctionsmax. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS NTP, RTSP, UPnP, SNMP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast. SSL/TLS

Profile S/G









IP Motor-zoom Camera with video content analysis based on Deep Learning NVIP-2H-6502M/F

Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, NVR-6000 Viewer
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color or 1 video mask type: mosaic
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, pedestrian detection, cross counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle detection, vehicle counting
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	2
Range	50 m
Smart IR	yes (software support)
INTERFACES	
Audio Input/Output	1 x Jack (3.5 mm)/-
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB
INSTALLATION PARAMETERS	
Dimensions (mm)	with bracket: 81 (W) x 81 (H) x 220 (L)
Weight	0.7 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included , IK10 impact rating
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	6 W • 10 W (IR on)
Operating Temperature	-30°C ~ 60°C

max. 95%, relative (non-condensing)







Humidity

NoVus

Vandal Proof IP Starlight Camera

NVIP-2VE-6601-II





KEY FEATURES



















- •Resolution: 2 MPX
- •Lens: fixed focal, f=2.8 mm/F2.0
- •built-in microphone
- •D/N function IR cut filter
- $\bullet microSD\ card\ support$
- •Min. Illumination: 0.0005 lx (0 lx, IR on)
- \bullet IR LED, range up to 30 m $\,$

DIMENSIONS







IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SmartSens
Number of Effective Pixels	1922 (H) x 1088 (V)
Min. Illumination	0.005 lx/F2.0 - color mode • 0.0005 lx/F2.0 - B/W mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, f=2.8 mm/F2.0	
DAY/NIGHT		

•	
Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK	
Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.265, MJPEG/G.711
Number of Simultaneous Conne	ctionsmax. 3
Bandwidth	12 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, SSL, ICMP, Unicast
ONVIF Protocol Support	Profile S/G





Vandal Proof IP Starlight Camera NVIP-2VE-6601-II

Camera Configuration	from Internet Explorer browser \bullet languages: Polish, English, Russian, and others
Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	3
Video Content Analysis (VCA)	line cross, zone entrance, Video Blurred
Image Processing	sharpening, mirror effect, vertical flip, horizontal flip
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card $$
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	1
Range	30 m
Angle	120°
INTERFACES	
Audio Input/Output	built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB
INSTALLATION PARAMETERS	
Dimensions (mm)	95 (Φ) x 83 (H)
Weight	0.5 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	2.5 W • 5 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)







Vandal Proof IP Starlight Camera

NVIP-2VE-6632M





KEY FEATURES

















100 mm

- •Resolution: 2 MPX
- •Lens: motorized, auto-focus function, f=2.8 \sim 12 mm/F1.4
- •built-in microphone
- •D/N function IR cut filter
- •microSD card support
- •WDR with double scan sensor
- •Min. Illumination: 0.003 lx (0 lx, IR on)
- •IR LED, range up to 50 m

DIMENSIONS







IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" OmniVision
Number of Effective Pixels	1920 (H) x 1080 (V)
Min. Illumination	0.003 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/2 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, f=2.8 \sim 12 mm/F1.4
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

DAT/MOTT	
Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+, MJPEG/G.711
Number of Simultaneous Conne	ctionsmax. 3
Bandwidth	12 Mb/s in total
Network Protocols Support	HTTP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP, RTMP
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others







Vandal Proof IP Starlight Camera NVIP-2VE-6632M

Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	abandoned object, object disappearance, line cross, Scene Change, Video Blurred, Video Color Cast, intrusion detection
Image Processing	$90\ensuremath{^\circ}$ image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	2
Range	50 m
Smart IR	yes (software support)
INTERFACES	
Audio Input/Output	1 x Jack (3.5 mm)/- built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	
Dimensions (mm)	112 (Φ) x 100 (H)
Weight	0.7 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white
Power Supply	12 VDC, PoE (IEEE 802.3af, Class 3)
Surge protection	TVS 4000 V
Power Consumption	4 W • 8.5 W (IR illuminator on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)







NoVus

Vandal Proof IP Starlight Camera

NVIP-2VE-6602





KEY FEATURES

















- •Resolution: 2 MPX
- •Lens: varifocal, f=2.8 ~ 12 mm/F1.4
- •D/N function IR cut filter
- •microSD card support
- •Min. Illumination: 0.0003 lx (0 lx, IR on)
- •IR LED, range up to 50 m

DIMENSIONS







IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SONY STARVIS
Number of Effective Pixels	1945 (H) x 1097 (V)
Min. Illumination	0.003 lx/F1.4 - color mode • 0.0003 lx/F1.4 - B/W mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	varifocal, f=2.8 \sim 12 mm/F1.4	
DAY/NIGHT		

DAY/NIGHT	
Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK	
Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.265, MJPEG/-
Number of Simultaneous Conne	ectionsmax. 3
Bandwidth	12 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, DHCP, DDNS, NTP, RTSP, UPnP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS
ONVIF Protocol Support	Profile S/G







Vandal Proof IP Starlight Camera NVIP-2VE-6602

Camera Configuration	from Internet Explorer browser ${\color{blue}\bullet}$ languages: Polish, English, Russian, and others
Compatible Software	NMS, NVR-6000 Viewer
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	3
Image Processing	sharpening, mirror effect, vertical flip, horizontal flip
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail with attachment, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	2
Range	50 m
Angle	90°
INTERFACES	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB
INSTALLATION PARAMETERS	
Dimensions (mm)	112 (Ф) x 100 (H)
Weight	0.7 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	3 W • 8 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)







NoVus

Bullet IP Starlight Camera

NVIP-2H-6601-II





KEY FEATURES

















- •Resolution: 2 MPX
- •Lens: fixed focal, f=2.8 mm/F2.0
- •D/N function IR cut filter
- •microSD card support
- •Min. Illumination: 0.0005 lx (0 lx, IR on)
- •IR LED, range up to 30 m

DIMENSIONS



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SmartSens
Number of Effective Pixels	1922 (H) x 1088 (V)
Min. Illumination	0.005 lx/F2.0 - color mode • 0.0005 lx/F2.0 - B/W mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, f=2.8 mm/F2.0
DAY/NIGHT	

DAY/NIGHT	
Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK	
Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.265, MJPEG/G.711
Number of Simultaneous Conne	ctionsmax. 3
Bandwidth	12 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS
ONVIF Protocol Support	Profile S/G









Bullet IP Starlight Camera NVIP-2H-6601-II

Camera Configuration	from Internet Explorer browser \bullet languages: Polish, English, Russian, and others
Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	3
Video Content Analysis (VCA)	line cross, zone entrance, Video Blurred
Image Processing	sharpening, mirror effect, vertical flip, horizontal flip
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	1
Range	30 m
Angle	120°
INTERFACES	
Audio Input/Output	1 x Jack (3.5 mm)/-
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB
INSTALLATION PARAMETERS	
Dimensions (mm)	with bracket: 75 (W) x 75 (H) x 170 (L)
Weight	0.45 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included , IK10 impact rating
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	3 W • 6 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)







Bullet IP Starlight Camera

NVIP-2H-6602-II





KEY FEATURES

















- •Resolution: 2 MPX
- •Lens: varifocal, f=2.8 ~ 12 mm/F1.4
- •D/N function IR cut filter
- •microSD card support
- •Min. Illumination: 0.0003 lx (0 lx, IR on)
- •IR LED, range up to 50 m

DIMENSIONS



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SmartSens
Number of Effective Pixels	1922 (H) x 1088 (V)
Min. Illumination	0.003 lx/F1.4 - color mode • 0.0003 lx/F1.4 - B/W mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	varifocal, f=2.8 ~ 12 mm/F1.4	
DAY/NIGHT		

DAY/NIGHT	
Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.265, MJPEG/G.711
Number of Simultaneous Conne	ectionsmax. 3
Bandwidth	12 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS
ONVIF Protocol Support	Profile S/G







Bullet IP Starlight Camera NVIP-2H-6602-II

Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	3
Video Content Analysis (VCA)	line cross, zone entrance, Video Blurred
Image Processing	sharpening, mirror effect, vertical flip, horizontal flip
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	2
Range	50 m
Angle	90°
INTERFACES	
Audio Input/Output	1 x RCA/-
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB
INSTALLATION PARAMETERS	
Dimensions (mm)	with bracket: 81 (W) x 81 (H) x 220 (L)
Weight	0.7 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included , IK10 impact rating
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	3 W • 8 W (IR illuminator on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)







NoVus

Bullet IP Starlight Camera

NVIP-2H-6632M





KEY FEATURES

















- •Resolution: 2 MPX
- •Lens: motorized, auto-focus function, f=2.8 \sim 12 mm/F1.4
- MicroSD card support
- •D/N function IR cut filter
- •microSD card support
- •WDR with double scan sensor
- •Min. Illumination: 0.003 lx (0 lx, IR on)
- •IR LED, range up to 50 m

DIMENSIONS



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" OmniVision
Number of Effective Pixels	1920 (H) x 1080 (V)
Min. Illumination	0.003 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/2 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, f=2.8 ~ 12 mm/F1.4
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

2711/1110111	
Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+, MJPEG/G.711
Number of Simultaneous Conne	ctionsmax. 3
Bandwidth	12 Mb/s in total
Network Protocols Support	HTTP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP, RTMP
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others









Bullet IP Starlight Camera NVIP-2H-6632M

Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	abandoned object, object disappearance, line cross, Scene Change, Video Blurred, Video Color Cast, intrusion detection
Image Processing	$90\ensuremath{^\circ}$ image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	2
Range	50 m
Smart IR	yes (software support)
INTERFACES	
Audio Input/Output	1 x Jack (3.5 mm)/-
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	
Dimensions (mm)	with bracket: 81 (W) x 81 (H) x 220 (L)
Weight	0.7 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included , IK10 impact rating
Power Supply	12 VDC, PoE (IEEE 802.3af, Class 3)
Surge protection	TVS 4000 V
Power Consumption	4 W • 8.5 W (IR illuminator on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)







Bullet IP LPR Camera with Motor-zoom Lens

NVIP-2H-6732M/LPR





KEY FEATURES

















- •Resolution: 2 MPX
- •Lens: motorized, auto-iris and auto-focus function, f=7 \sim 22 mm/F1.4
- •D/N function IR cut filter
- Video content analysis
- •Licence plate recognition (LPR)
- ·microSD card support
- •WDR with double scan sensor
- •two-way audio
- •Min. Illumination from 0.0026 lx (0 lx, IR on)
- \bullet IR LED, range up to 100 m (depends on current optical zoom value)

DIMENSIONS







IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SONY STARVIS
Number of Effective Pixels	1945 (H) x 1097 (V)
Min. Illumination	0.0026 lx/F1.2 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, auto-iris function, f=7 ~ 22 mm/F1.4
Auto-focus	zoom trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 600 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK	
Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	60 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Conne	ectionsmax. 10
Bandwidth	40 Mb/s in total
Network Protocols Support	HTTP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, SSL/TLS
ONVIF Protocol Support	Profile S









Bullet IP LPR Camera with Motor-zoom Lens NVIP-2H-6732M/LPR

Camera Configuration	from Internet Explorer browser \bullet languages: Polish, English, Russian, and others
Compatible Software	NMS
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color or 1 video mask type: mosaic
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, zone entrance, zone exit
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	using reset button, via NMS IPTool software
LICENCE PLATE RECOGNITION	(LPR)
Autonomous operation mode	yes - recognition function implemented in the camera
Capacity of License Plate Database	up to 10000 license plates, on all lists.
Types of recognized number plates	all countries of the European Union / CIS countries
Barrier control	yes - built-in relay output
Recommended maximum speed of the vehicle	up to 70 km/h
Reactions for the licence plate	alarm output activation
recognition	alarm output activation
recognition	
IR LED LED Number	6
recognition IR LED LED Number Range	6 up to 100 m (depends on current optical zoom value)
recognition IR LED LED Number Range Angle	6 up to 100 m (depends on current optical zoom value) up to 50° (depends on current optical zoom value)
recognition IR LED LED Number Range	6 up to 100 m (depends on current optical zoom value)
recognition IR LED LED Number Range Angle	6 up to 100 m (depends on current optical zoom value) up to 50° (depends on current optical zoom value)
recognition IR LED LED Number Range Angle Smart IR	6 up to 100 m (depends on current optical zoom value) up to 50° (depends on current optical zoom value)
recognition IR LED LED Number Range Angle Smart IR INTERFACES	6 up to 100 m (depends on current optical zoom value) up to 50° (depends on current optical zoom value) yes (software support)
recognition IR LED LED Number Range Angle Smart IR INTERFACES Audio Input/Output	6 up to 100 m (depends on current optical zoom value) up to 50° (depends on current optical zoom value) yes (software support) 1 x RCA/1 x RCA
recognition IR LED LED Number Range Angle Smart IR INTERFACES Audio Input/Output Alarm Input/Output	6 up to 100 m (depends on current optical zoom value) up to 50° (depends on current optical zoom value) yes (software support) 1 x RCA/1 x RCA 1 (NO/NC)/1 relay type
recognition IR LED LED Number Range Angle Smart IR INTERFACES Audio Input/Output Alarm Input/Output Network Interface	6 up to 100 m (depends on current optical zoom value) up to 50° (depends on current optical zoom value) yes (software support) 1 x RCA/1 x RCA 1 (NO/NC)/1 relay type 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
recognition IR LED LED Number Range Angle Smart IR INTERFACES Audio Input/Output Alarm Input/Output Network Interface Memory Card Slot	6 up to 100 m (depends on current optical zoom value) up to 50° (depends on current optical zoom value) yes (software support) 1 x RCA/1 x RCA 1 (NO/NC)/1 relay type 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
recognition IR LED LED Number Range Angle Smart IR INTERFACES Audio Input/Output Alarm Input/Output Network Interface Memory Card Slot INSTALLATION PARAMETERS	up to 100 m (depends on current optical zoom value) up to 50° (depends on current optical zoom value) yes (software support) 1 x RCA/1 x RCA 1 (NO/NC)/1 relay type 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 128GB
recognition IR LED LED Number Range Angle Smart IR INTERFACES Audio Input/Output Alarm Input/Output Network Interface Memory Card Slot INSTALLATION PARAMETERS Dimensions (mm)	6 up to 100 m (depends on current optical zoom value) up to 50° (depends on current optical zoom value) yes (software support) 1 x RCA/1 x RCA 1 (NO/NC)/1 relay type 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 128GB with bracket: 100 (W) x 89 (H) x 280 (L)
recognition IR LED LED Number Range Angle Smart IR INTERFACES Audio Input/Output Alarm Input/Output Network Interface Memory Card Slot INSTALLATION PARAMETERS Dimensions (mm) Weight	6 up to 100 m (depends on current optical zoom value) up to 50° (depends on current optical zoom value) yes (software support) 1 x RCA/1 x RCA 1 (NO/NC)/1 relay type 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 128GB with bracket: 100 (W) x 89 (H) x 280 (L) 1.1 kg
recognition IR LED LED Number Range Angle Smart IR INTERFACES Audio Input/Output Alarm Input/Output Network Interface Memory Card Slot INSTALLATION PARAMETERS Dimensions (mm) Weight Degree of Protection	6 up to 100 m (depends on current optical zoom value) up to 50° (depends on current optical zoom value) yes (software support) 1 x RCA/1 x RCA 1 (NO/NC)/1 relay type 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 128GB with bracket: 100 (W) x 89 (H) x 280 (L) 1.1 kg IP 67 (details in the user's manual) aluminium, white, fully cable managed wall mount bracket in-set
recognition IR LED LED Number Range Angle Smart IR INTERFACES Audio Input/Output Alarm Input/Output Network Interface Memory Card Slot INSTALLATION PARAMETERS Dimensions (mm) Weight Degree of Protection Enclosure	6 up to 100 m (depends on current optical zoom value) up to 50° (depends on current optical zoom value) yes (software support) 1 x RCA/1 x RCA 1 (NO/NC)/1 relay type 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 128GB with bracket: 100 (W) x 89 (H) x 280 (L) 1.1 kg IP 67 (details in the user's manual) aluminium, white, fully cable managed wall mount bracket in-set included
recognition IR LED LED Number Range Angle Smart IR INTERFACES Audio Input/Output Alarm Input/Output Network Interface Memory Card Slot INSTALLATION PARAMETERS Dimensions (mm) Weight Degree of Protection Enclosure Power Supply	6 up to 100 m (depends on current optical zoom value) up to 50° (depends on current optical zoom value) yes (software support) 1 x RCA/1 x RCA 1 (NO/NC)/1 relay type 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 128GB with bracket: 100 (W) x 89 (H) x 280 (L) 1.1 kg IP 67 (details in the user's manual) aluminium, white, fully cable managed wall mount bracket in-set included PoE, 12 VDC









Bullet IP LPR Camera with Motor-zoom Lens NVIP-2H-6732M/LPR

Humidity

max. 95%, relative (non-condensing)





IP Camera with video content analysis based on Deep Learning

NVIP-4C-6500/F





KEY FEATURES













- •Resolution: 4 MPX
- •two-way audio
- •D/N function IR cut filter
- •Video content analysis based on Deep Learning
- •microSD card support
- •WDR with double scan sensor
- •Min. Illumination from 0.0028 lx

DIMENSIONS











IMAGE

Image Sensor	4 MPX CMOS sensor 1/3" SmartSens
Number of Effective Pixels	2592 (H) x 1520 (V)
Min. Illumination	0.0028 lx/F1.2 - color mode • 0.001 lx/F1.2 - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Compatible Mount Type	CS
Iris Mode	D

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes

NETWORK	
Stream Resolution	2592 x 1520, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA
Frame Rate	30 fps for each resolution • 60 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Conne	ctionsmax. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS
ONVIF Protocol Support	Profile S/G









IP Camera with video content analysis based on Deep Learning NVIP-4C-6500/F

Camera Configuration	from Internet Explorer browser \bullet languages: Polish, English, Russian, and others
Compatible Software	NMS, NVR-6000 Viewer
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color or 1 video mask type: mosaic
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, pedestrian detection, cross counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle detection, vehicle counting
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card, alarm output activation
Restoring default settings	via web browser, using reset button, via NMS IPTool software
INTERFACES	
Video Output	BNC, 1.0 Vp-p, 75 Ohm
Audio Input/Output	$1 \times \text{Jack} (3.5 \text{ mm})/1 \times \text{Jack} (3.5 \text{ mm})$ built-in microphone
Alarm Input/Output	2 (NO/NC)/2 relay type
RS-485	yes
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB
INSTALLATION PARAMETERS	
Dimensions (mm)	
	79 (W) x 64 (H) x 161 (L)
Weight	79 (W) x 64 (H) x 161 (L) 0.5 kg
Weight Enclosure	
	0.5 kg
Enclosure	0.5 kg aluminium, white
Enclosure Power Supply	0.5 kg aluminium, white PoE, 12 VDC, 24 VAC
Enclosure Power Supply Surge protection	0.5 kg aluminium, white PoE, 12 VDC, 24 VAC TVS 4000 V
Enclosure Power Supply Surge protection Power Consumption	0.5 kg aluminium, white PoE, 12 VDC, 24 VAC TVS 4000 V 11 W

^{*} Lens not included







IP Camera with video content analysis based on Deep Learning

NVIP-4V-6511/F





KEY FEATURES





















- •Resolution: 4 MPX
- •Lens: fixed focal, f=2.8 mm/F1.6
- Human/Vehicle Object Classification
- $\bullet\,\text{D/N}$ function IR cut filter
- •Video content analysis based on Deep Learning
- •microSD card support
- $\bullet \mathsf{WDR} \mathsf{\ with\ double\ scan\ sensor}$
- •Min. Illumination: 0.005 lx (0 lx, IR on)
- •IR LED, range up to 20 m

DIMENSIONS









IMAGE

Image Sensor	4 MPX CMOS sensor 1/3" SmartSens
Number of Effective Pixels	2592 (H) x 1520 (V)
Min. Illumination	0.005 lx/F1.6 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, f=2.8 mm/F1.6
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DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

ONVIF Protocol Support

NETWORK	
Stream Resolution	2592 x 1520, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 2592 x 1520 \bullet 60 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Conne	ectionsmax. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, SNMP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS

Profile S/G







IP Camera with video content analysis based on Deep Learning NVIP-4V-6511/F

Camera Configuration	from Internet Explorer browser \bullet languages: Polish, English, Russian, and others
Compatible Software	NMS, NVR-6000 Viewer
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color or 1 video mask type: mosaic
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, pedestrian detection, cross counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle detection, vehicle counting
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card $$
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	2
Range	20 m
Smart IR	yes (software support)
INTERFACES	
Audio Input/Output	1 x Jack (3.5 mm)/- built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB
INSTALLATION PARAMETERS	
Dimensions (mm)	110 (Φ) x 60 (H)
Weight	0.4 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	4 W • 6 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)







IP Camera with video content analysis based on Deep Learning

NVIP-4VE-6501/F-II





KEY FEATURES





















- •Resolution: 4 MPX
- •Lens: fixed focal, f=2.8 mm/F1.6
- •built-in microphone
- •D/N function IR cut filter
- •Video content analysis based on Deep Learning
- •microSD card support
- •IR LED, range up to 30 m

DIMENSIONS







The camera creates a fully functional face recognition system when used with selected IP Series 6000 DVRs (models with "F" in the name).

IMAGE

Image Sensor	4 MPX CMOS sensor 1/3" SmartSens
Number of Effective Pixels	2688 (H) x 1520 (V)
Min. Illumination	0.005 lx/F1.6 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/2 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, f=2.8 mm/F1.6
Lens Type	11Xeu 10cai, 1-2.0 11111/1 1.0

DAY/NIGHT

•	
Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

Stream Resolution	2592 x 1520, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 2592 x 1520 \bullet 60 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+, MJPEG/G.711
Number of Simultaneous Connecti	onsmax. 10
Bandwidth	50 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP









IP Camera with video content analysis based on Deep Learning NVIP-4VE-6501/F-II

	Profile S/G
Camera Configuration	from Internet Explorer, Chrome, Opera, Safari browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color or 4 video mask type: mosaic
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, pedestrian detection, cross counting, heat map, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle counting, intrusion detection
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	1
Range	30 m
Smart IR	yes (software support)
INTERFACES	
INTERFACES Audio Input/Output	1 x lack (3.5 mm)/- built-in microphone
INTERFACES Audio Input/Output Network Interface	1 x Jack (3.5 mm)/- built-in microphone 1 x Ethernet - RI-45 interface, 10/100 Mbit/s
Audio Input/Output	1 x Jack (3.5 mm)/- built-in microphone 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 256GB
Audio Input/Output Network Interface Memory Card Slot	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Audio Input/Output Network Interface Memory Card Slot INSTALLATION PARAMETERS	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 256GB
Audio Input/Output Network Interface Memory Card Slot INSTALLATION PARAMETERS Dimensions (mm)	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 256GB 94 (Φ) x 83 (H)
Audio Input/Output Network Interface Memory Card Slot INSTALLATION PARAMETERS Dimensions (mm) Weight	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 256GB 94 (Φ) x 83 (H) 0.5 kg
Audio Input/Output Network Interface Memory Card Slot INSTALLATION PARAMETERS Dimensions (mm) Weight Degree of Protection	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 256GB 94 (Φ) x 83 (H) 0.5 kg IP 67 (details in the user's manual)
Audio Input/Output Network Interface Memory Card Slot INSTALLATION PARAMETERS Dimensions (mm) Weight Degree of Protection Enclosure	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 256GB 94 (Φ) x 83 (H) 0.5 kg IP 67 (details in the user's manual) vandalproof IK10 impact rating aluminium, white
Audio Input/Output Network Interface Memory Card Slot INSTALLATION PARAMETERS Dimensions (mm) Weight Degree of Protection Enclosure Power Supply	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 256GB 94 (Φ) x 83 (H) 0.5 kg IP 67 (details in the user's manual) vandalproof IK10 impact rating aluminium, white 12 VDC, PoE (IEEE 802.3af, Class 3)
Audio Input/Output Network Interface Memory Card Slot INSTALLATION PARAMETERS Dimensions (mm) Weight Degree of Protection Enclosure Power Supply Surge protection	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 256GB 94 (Φ) x 83 (H) 0.5 kg IP 67 (details in the user's manual) vandalproof IK10 impact rating aluminium, white 12 VDC, PoE (IEEE 802.3af, Class 3) TVS 4000 V
Audio Input/Output Network Interface Memory Card Slot INSTALLATION PARAMETERS Dimensions (mm) Weight Degree of Protection Enclosure Power Supply Surge protection Power Consumption	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 256GB 94 (Φ) x 83 (H) 0.5 kg IP 67 (details in the user's manual) vandalproof IK10 impact rating aluminium, white 12 VDC, PoE (IEEE 802.3af, Class 3) TVS 4000 V 4 W • 7 W (IR illuminator on)
Audio Input/Output Network Interface Memory Card Slot INSTALLATION PARAMETERS Dimensions (mm) Weight Degree of Protection Enclosure Power Supply Surge protection	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 256GB 94 (Φ) x 83 (H) 0.5 kg IP 67 (details in the user's manual) vandalproof IK10 impact rating aluminium, white 12 VDC, PoE (IEEE 802.3af, Class 3) TVS 4000 V







IP Camera with video content analysis based on Deep Learning

NVIP-4VE-6502M/F-II





KEY FEATURES



















100 mm

- •Resolution: 4 MPX
- •Lens: motorized, auto-focus function, f=2.8 \sim 12 mm/F0
- •built-in microphone
- •D/N function IR cut filter
- •Video content analysis based on Deep Learning
- ·microSD card support
- •Min. Illumination: 0.003 lx (0 lx, IR on)
- •IR LED, range up to 50 m

DIMENSIONS



112 mm (Ø)



The camera creates a fully functional face recognition system when used with selected IP Series 6000 DVRs (models with "F" in the name).

IMAGE

Image Sensor	4 MPX CMOS sensor 1/3" SmartSens
Number of Effective Pixels	2688 (H) x 1520 (V)
Min. Illumination	0.003 lx/F1.3 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/2 s
Wide Dynamic Range (WDR)	yes 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, f=2.8 ~ 12 mm/F1.3
Lens Type	11101011204, 1-2.0 12 11111/11.5

DAY/NIGHT

•	
Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

TIL I WORK	
Stream Resolution	2592 x 1520, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 2592 x 1520 \bullet 60 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+, MJPEG/G.711
Number of Simultaneous Conne	ectionsmax. 10
Bandwidth	50 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP







IP Camera with video content analysis based on Deep Learning NVIP-4VE-6502M/F-II

ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer, Chrome, Opera, Safari browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color or 4 video mask type: mosaic
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection*, detection of people not wearing masks, pedestrian detection, cross counting, heat map, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle counting, intrusion detection
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	3
Range	50 m
Smart IR	yes (software support)
INTERFACES	
Audio Input/Output	1 x Jack (3.5 mm)/- built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	
Dimensions (mm)	112 (Ф) x 100 (H)
Weight	0.5 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white
Power Supply	12 VDC, PoE (IEEE 802.3af, Class 3)
Surge protection	TVS 4000 V
Power Consumption	5 W • 9.5 W (IR illuminator on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)







IP Camera with video content analysis based on Deep Learning

NVIP-4VE-6502M/F-II/7043





KEY FEATURES





















100 mm



- •Lens: motorized, auto-focus function, f=2.8 ~ 12 mm/F1.3
- •built-in microphone
- •D/N function IR cut filter
- •Video content analysis based on Deep Learning
- ·microSD card support
- •Min. Illumination: 0.003 lx (0 lx, IR on)
- •IR LED, range up to 50 m

DIMENSIONS



112 mm (Ø)



The camera creates a fully functional face recognition system when used with selected IP Series 6000 DVRs (models with "F" in the name).

IMAGE

Image Sensor	4 MPX CMOS sensor 1/3" SmartSens
Number of Effective Pixels	2688 (H) x 1520 (V)
Min. Illumination	0.003 lx/F1.3 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/2 s
Wide Dynamic Range (WDR)	yes 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, $f=2.8 \sim 12$ mm/F1.3

DAY/NIGHT

•	
Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

METWORK	
Stream Resolution	2592 x 1520, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 2592 x 1520 \bullet 60 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+, MJPEG/G.711
Number of Simultaneous Conne	ectionsmax. 10
Bandwidth	50 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP







IP Camera with video content analysis based on Deep Learning NVIP-4VE-6502M/F-II/7043

ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer, Chrome, Opera, Safari browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color or 4 video mask type: mosaic
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection*, detection of people not wearing masks, pedestrian detection, cross counting, heat map, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle counting, intrusion detection
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	3
Range	50 m
Smart IR	yes (software support)
INTERFACES	
Audio Input/Output	1 x Jack (3.5 mm)/- built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	
Dimensions (mm)	112 (Φ) x 100 (H)
Weight	0.5 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, grey
Power Supply	12 VDC, PoE (IEEE 802.3af, Class 3)
Surge protection	TVS 4000 V
Power Consumption	5 W • 9.5 W (IR illuminator on)
Operating Temperature	2000 6000
operating remperature	-30°C ~ 60°C







IP Camera with video content analysis based on Deep Learning

NVIP-4H-6511/F-II





KEY FEATURES





















- •Resolution: 4 MPX
- •Lens: fixed focal, f=2.8 mm/F1.6
- •MicroSD card support
- •D/N function IR cut filter
- •Video content analysis based on Deep Learning
- •microSD card support
- •IR LED, range up to 50 m

DIMENSIONS



The camera creates a fully functional face recognition system when used with selected IP Series 6000 DVRs (models with "F" in the name).

IMAGE

INAGE	
Image Sensor	4 MPX CMOS sensor 1/3" SmartSens
Number of Effective Pixels	2688 (H) x 1520 (V)
Min. Illumination	0.005 lx/F1.6 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/2 s
Wide Dynamic Range (WDR)	yes 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type f	fixed focal, $f=2.8 \text{ mm/F1.6}$
-------------	--------------------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NEIWORK	
Stream Resolution	2592 x 1520, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 2592 x 1520 \bullet 60 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+, MJPEG/G.711
Number of Simultaneous Connec	tionsmax. 10
Bandwidth	50 Mb/s in total









IP Camera with video content analysis based on Deep Learning NVIP-4H-6511/F-II

Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer, Chrome, Opera, Safari browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color or 4 video mask type: mosaic
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection*, detection of people not wearing masks, pedestrian detection, cross counting, heat map, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle counting, intrusion detection
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card $$
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	2
Range	50 m
Smart IR	yes (software support)
INTERFACES	
Audio Input/Output	1 x Jack (3.5 mm)/-
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	
Dimensions (mm)	with bracket: 81 (W) x 81 (H) x 220 (L)
Weight	0.66 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included , IK10 impact rating
Power Supply	12 VDC, PoE (IEEE 802.3af, Class 3)
Surge protection	TVS 4000 V
Power Consumption	4 W • 9 W (IR illuminator on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)







IP Motor-zoom Camera with video content analysis based on Deep Learning

NVIP-4H-6502M/F





KEY FEATURES





















- •Resolution: 4 MPX
- •Lens: motorized, auto-iris and auto-focus function,
- Human/Vehicle Object Classification
- •D/N function IR cut filter
- •Video content analysis based on Deep Learning
- •microSD card support
- •WDR with double scan sensor
- •Min. Illumination: 0.004 lx (0 lx, IR on)
- •IR LED, range up to 50 m

DIMENSIONS







220 mm

IMAGE

Image Sensor	4 MPX CMOS sensor 1/3" SmartSens
Number of Effective Pixels	2592 (H) x 1520 (V)
Min. Illumination	0.004 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, auto-iris function, f=2.8 \sim 12 mm/F1.4
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK	
Stream Resolution	2592 x 1520, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 2592 x 1520 \bullet 60 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Conne	ectionsmax. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, SNMP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS







IP Motor-zoom Camera with video content analysis based on Deep Learning NVIP-4H-6502M/F

ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, NVR-6000 Viewer
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color or 1 video mask type: mosaic
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, pedestrian detection, cross counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle detection, vehicle counting
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	2
Range	50 m
Smart IR	yes (software support)
INTERFACES	
Audio Input/Output	1 x Jack (3.5 mm)/-
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB
INSTALLATION PARAMETERS	
Dimensions (mm)	with bracket: 81 (W) x 81 (H) x 220 (L)
Weight	0.7 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included , IK10 impact rating
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	6 W • 10 W (IR on)
Operating Temperature	-30°C ~ 60°C







IP Camera with video content analysis based on Deep Learning

NVIP-4H-6502M/F-II/7043





KEY FEATURES























- •Resolution: 4 MPX
- •Lens: motorized, auto-focus function, f=2.8 ~ 12
- Human/Vehicle Object Classification
- •D/N function IR cut filter
- •Video content analysis based on Deep Learning
- •microSD card support
- •Min. Illumination: 0.003 lx (0 lx, IR on)
- \bullet IR LED, range up to 50 m

DIMENSIONS









220 mm

The camera creates a fully functional face recognition system when used with selected IP Series 6000 DVRs (models with "F" in the name).

IMAGE

Image Sensor	4 MPX CMOS sensor 1/3" SmartSens
Number of Effective Pixels	2688 (H) x 1520 (V)
Min. Illumination	0.003 lx/F1.3 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/2 s
Wide Dynamic Range (WDR)	yes 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, f=2.8 \sim 12 mm/F1.3
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DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

Stream Resolution	2592 x 1520, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 2592 x 1520 \bullet 60 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+, MJPEG/G.711
Number of Simultaneous Conne	ectionsmax. 10
Bandwidth	50 Mb/s in total







IP Camera with video content analysis based on Deep Learning

NVIP-4H-6502M/F-II/7043

Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP, RTMP
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer, Chrome, Opera, Safari browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color or 4 video mask type: mosaic
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection*, detection of people not wearing masks, pedestrian detection, cross counting, heat map, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle counting, intrusion detection
Image Processing	90° image rotation, 180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	3
Range	50 m
Smart IR	yes (software support)
INTERFACES	
Audio Input/Output	1 x Jack (3.5 mm)/-
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	
Dimensions (mm)	with bracket: 81 (W) x 81 (H) x 220 (L)
Weight	0.66 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, grey, fully cable managed wall mount bracket in-set included , IK10 impact rating
Power Supply	12 VDC, PoE (IEEE 802.3af, Class 3)
Surge protection	TVS 4000 V
Power Consumption	6 W • 9 W (IR illuminator on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)
	·







IP Motor-zoom Camera with video content analysis based on Deep Learning

NVIP-4H-6522M/F





KEY FEATURES





















- •Resolution: 4 MPX
- •Lens: motorized, auto-iris and auto-focus function,
- Human/Vehicle Object Classification
- •D/N function IR cut filter
- •Video content analysis based on Deep Learning
- •microSD card support
- •WDR with double scan sensor
- •Min. Illumination: 0.004 lx (0 lx, IR on)
- •IR LED, range up to 70 m

DIMENSIONS



IMAGE

Image Sensor	4 MPX CMOS sensor 1/3" SmartSens
Number of Effective Pixels	2592 (H) x 1520 (V)
Min. Illumination	0.004 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, auto-iris function, f=2.8 \sim 12 mm/F1.4
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK	
Stream Resolution	2592 x 1520, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 2592 x 1520 \bullet 60 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Conne	ectionsmax. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, SNMP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS









IP Motor-zoom Camera with video content analysis based on Deep Learning NVIP-4H-6522M/F

ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, NVR-6000 Viewer
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color or 1 video mask type: mosaic
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, pedestrian detection, cross counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle detection, vehicle counting
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card, alarm output activation
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	4
Range	70 m
Smart IR	yes (software support)
INTERFACES	
Video Output	BNC, 1.0 Vp-p, 75 Ohm
Audio Input/Output	1 x Jack (3.5 mm)/1 x Jack (3.5 mm)
Alarm Input/Output	1 (NO/NC)/1 relay type
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB
INSTALLATION PARAMETERS	
Dimensions (mm)	with bracket: 101 (W) x 89 (H) x 280 (L)
Weight	1.1 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included , IK10 impact rating $$
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	7.5 W • 14 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)







IP Motor-zoom Camera with video content analysis based on Deep Learning

NVIP-4H-6532M/F





KEY FEATURES





















- •Resolution: 4 MPX
- •Lens: motorized, auto-iris and auto-focus function, f=7
- Human/Vehicle Object Classification
- •D/N function IR cut filter
- •Video content analysis based on Deep Learning
- •microSD card support
- •WDR with double scan sensor
- •Min. Illumination: 0.005 lx (0 lx, IR on)
- \bullet IR LED, range up to 100 m (depends on current optical zoom value)

DIMENSIONS



IMAGE

Image Sensor	4 MPX CMOS sensor 1/3" SmartSens
Number of Effective Pixels	2592 (H) x 1520 (V)
Min. Illumination	0.005 lx/F1.6 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, auto-iris function, f=7 \sim 22 mm/F1.6
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK	
Stream Resolution	2592 x 1520, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 2592 x 1520 \bullet 60 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Conne	ectionsmax. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, SNMP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS









IP Motor-zoom Camera with video content analysis based on Deep Learning NVIP-4H-6532M/F

ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian and others
Compatible Software	NMS, NVR-6000 Viewer
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color or 1 video mask type: mosaic
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, pedestrian detection, cross counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle detection, vehicle counting
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card, alarm output activation
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	6
Range	up to 100 m (depends on current optical zoom value)
Smart IR	yes (software support)
INTERFACES	
Video Output	BNC, 1.0 Vp-p, 75 Ohm
Audio Input/Output	1 x Jack (3.5 mm)/1 x Jack (3.5 mm)
Alarm Input/Output	1 (NO/NC)/1 relay type
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB
INSTALLATION PARAMETERS	
Dimensions (mm)	with bracket: 101 (W) x 89 (H) x 280 (L)
Weight	1.1 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included , IK10 impact rating
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	7.5 W • 14 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)







Vandal Proof IP Camera with Motor-zoom Lens

NVIP-5V-6202M





KEY FEATURES

















- •Resolution: 5 MP>
- *Lens: motorized, auto-iris and auto-focus function, f=2.8 \sim 12 mm/F1.4
- MicroSD card support
- •D/N function IR cut filter
- •Video content analysis
- •microSD card support
- •Min. Illumination: 0.01 lx (0 lx, IR on)
- •IR LED, range up to 50 m

DIMENSIONS







IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2608 (H) x 1960 (V)
Min. Illumination	0.01 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/2 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, auto-iris function, f=2.8 \sim 12 mm/F1.4
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

Stream Resolution	2592 x 1944, 2560 x 1440 (QHD), 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 2560 x 1440 (QHD) • 25 fps for 2592 x 1944, 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.265/-
Number of Simultaneous Connec	ctionsmax. 4
Bandwidth	16 Mb/s in total
Network Protocols Support	HTTP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, UPnP, QoS, IEEE 802.1X, PPPoE, SMTP
ONVIF Protocol Support	Profile S







Vandal Proof IP Camera with Motor-zoom Lens **NVIP-5V-6202M**

Camera Configuration	from Internet Explorer browser \bullet languages: Polish, English, Russian, and others
Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	3
Video Content Analysis (VCA)	abandoned object, object disappearance, line cross, zone entrance, Scene Change, Video Blurred
Image Processing	sharpening, mirror effect, vertical flip, horizontal flip
Prealarm/Postalarm	-/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	3
Range	50 m
INTERFACES	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB
INSTALLATION PARAMETERS	
Dimensions (mm)	141 (Φ) x 100 (H)
Weight	0.85 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white poly-carbonate bubble
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	
Power Consumption	6 W • 11 W (IR on)
Operating Temperature	6 W • 11 W (IR on) -30°C ~ 60°C







Vandal IP Camera

NVIP-5VE-6201





KEY FEATURES

















83 mm

- •Resolution: 5 MPX
- •Lens: fixed focal, f=2.8 mm/F1.85
- •built-in microphone
- •D/N function IR cut filter
- Video content analysis
- •microSD card support
- •Min. Illumination: 0.02 lx (0 lx, IR on)
- •IR LED, range up to 30 m

DIMENSIONS







IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2608 (H) x 1960 (V)
Min. Illumination	0.02 lx/F1.85 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/2 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, f=2.8 mm/F1.85

DAY/NIGHT

DAT/NIGHT	
Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK	
Stream Resolution	2592 x 1944, 2560 x 1440 (QHD), 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	25 fps for 2592 x 1944 • 30 fps for 2560 x 1440 (QHD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.265/G.711
Number of Simultaneous Conne	ctionsmax. 4
Bandwidth	16 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS
ONVIE Protocol Support	Profile S





Vandal IP Camera NVIP-5VE-6201

Camera Configuration	from Internet Explorer browser \bullet languages: Polish, English, Russian, and others
Compatible Software	NMS, NVR-6000 Viewer
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	3
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, Scene Change, Video Color Cast
Image Processing	$180\ensuremath{^\circ}$ image rotation, sharpening, mirror effect, vertical flip, horizontal flip
Prealarm/Postalarm	-/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	1
Range	30 m
Angle	120°
INTERFACES	
Audio Input/Output	-/- built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB
INSTALLATION PARAMETERS	
Dimensions (mm)	95 (Φ) x 83 (H)
Weight	0.5 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	3 W • 6 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

25 fps for 2592 x 1944 resolution, Reset button and micorSD card slot available for cameras with serial number NVIP-5VE-6201210416xxxx and later.







NoVus

Vandal Proof IP Camera

NVIP-5VE-6202





KEY FEATURES



















- •Resolution: 5 MPX
- •Lens: varifocal, f=2.8 ~ 12 mm/F1.4
- •built-in microphone
- •D/N function IR cut filter
- Video content analysis
- •Min. Illumination: 0.01 lx (0 lx, IR on)
- \bullet IR LED, range up to 50 m $\,$

DIMENSIONS



100 mm



112 mm (Ø)

IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2608 (H) x 1960 (V)
Min. Illumination	0.01 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/2 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type varifoo	al, f=2.8 ~	12 mm/F1.4
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DAY/NIGHT

DAT/MIGHT	
Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK	
Stream Resolution	2592 x 1944, 2560 x 1440 (QHD), 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	25 fps for 2592 x 1944 • 30 fps for 2560 x 1440 (QHD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.265/G.711
Number of Simultaneous Conne	ctionsmax. 4
Bandwidth	16 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS
ONVIF Protocol Support	Profile S







Vandal Proof IP Camera NVIP-5VE-6202

Camera Configuration	from Internet Explorer browser \bullet languages: Polish, English, Russian, and others
Compatible Software	NMS, NVR-6000 Viewer
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	3
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, Scene Change, Video Color Cast
Image Processing	$180\ensuremath{^\circ}$ image rotation, sharpening, mirror effect, vertical flip, horizontal flip
Prealarm/Postalarm	-/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server
Restoring default settings	via web browser, via NMS IPTool software
IR LED	
LED Number	2
Range	50 m
Angle	90°
INTERFACES	
Audio Input/Output	-/- built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
INSTALLATION PARAMETERS	
Dimensions (mm)	112 (Ф) x 100 (H)
Weight	0.7 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	3 W • 8 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

25~fps for 2592~x~1944~resolution available for cameras with serial number NVIP-5VE-6202210416xxxx~and~later.







Vandal Proof IP Camera with Motor-zoom Lens

NVIP-5VE-6202M





KEY FEATURES

















100 mm

- •Resolution: 5 MPX
- •Lens: motorized, auto-focus function, f= $2.8 \sim 12$ mm/F1.4
- •built-in microphone
- •D/N function IR cut filter
- •Video content analysis
- •microSD card support
- •Min. Illumination: 0.01 lx (0 lx, IR on)
- •IR LED, range up to 50 m

DIMENSIONS







IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2608 (H) x 1960 (V)
Min. Illumination	0.01 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/2 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, f=2.8 ~ 12 mm/F1.4
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK	
Stream Resolution	2592 x 1944, 2560 x 1440 (QHD), 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	25 fps for 2592 x 1944 • 30 fps for 2560 x 1440 (QHD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.265/G.711
Number of Simultaneous Conne	ctionsmax. 4
Bandwidth	12 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS
ONVIF Protocol Support	Profile S







Vandal Proof IP Camera with Motor-zoom Lens NVIP-5VE-6202M

Camera Configuration	from Internet Explorer browser \bullet languages: Polish, English, Russian, and others
Compatible Software	NMS, NVR-6000 Viewer
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	3
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, Scene Change, Video Color Cast
Image Processing	$180\ensuremath{^\circ}$ image rotation, sharpening, mirror effect, vertical flip, horizontal flip
Prealarm/Postalarm	-/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	2
Range	50 m
Angle	90°
INTERFACES	
Audio Input/Output	-/- built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB
INSTALLATION PARAMETERS	
Dimensions (mm)	112 (Ф) x 100 (H)
Weight	0.7 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	5 W • 10 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

25 fps for 2592 x 1944 resolution, Reset button and micorSD card slot available for cameras with serial number NVIP-5VE-6202M210705xxxx and later.







NoVus

Bullet IP Camera NVIP-5H-6201





KEY FEATURES

















- •Resolution: 5 MPX
- •Lens: fixed focal, f=2.8 mm/F1.85
- •D/N function IR cut filter
- •Video content analysis
- microSD card support
- •Min. Illumination: 0.02 lx (0 lx, IR on)
- \bullet IR LED, range up to 30 m $\,$

DIMENSIONS



IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2608 (H) x 1960 (V)
Min. Illumination	0.02 lx/F1.85 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/2 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type

DAY/NIGHT	
Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

fixed focal, f=2.8 mm/F1.85

NETWORK	
Stream Resolution	2592 x 1944, 2560 x 1440 (QHD), 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	25 fps for 2592 x 1944 • 30 fps for 2560 x 1440 (QHD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.265/-
Number of Simultaneous Conne	ctionsmax. 4
Bandwidth	16 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS
ONVIF Protocol Support	Profile S









Bullet IP Camera NVIP-5H-6201

Camera Configuration

camera comigaration	and others
Compatible Software	NMS, NVR-6000 Viewer
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	3
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, Scene Change, Video Color Cast
Image Processing	$180\ensuremath{^\circ}$ image rotation, sharpening, mirror effect, vertical flip, horizontal flip
Prealarm/Postalarm	-/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	1
Range	30 m
Angle	120°
INTERFACES	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB
INSTALLATION PARAMETERS	
Dimensions (mm)	with bracket: 75 (W) x 75 (H) x 170 (L)
Weight	0.4 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included , IK10 impact rating
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	3 W • 6 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

from Internet Explorer browser • languages: Polish, English, Russian,

25 fps for 2592 x 1944 resolution, Reset button and micorSD card slot available for cameras with serial number NVIP-5H-6201210416xxxx and later.







NoVus

Bullet IP Camera

NVIP-5H-6201-II/7043





KEY FEATURES

















- •Resolution: 5 MPX
- •Lens: fixed focal, f=2.8 mm/F1.6
- •MicroSD card support
- •D/N function IR cut filter
- •Video content analysis
- •microSD card support
- •WDR with double scan sensor
- •Min. Illumination from 0.007 lx (0 lx, IR on)
- •IR LED, range up to 30 m

DIMENSIONS





75 mm





170 mm

IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2884 (H) x 1624 (V)
Min. Illumination	0.007 lx/F1.6 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

	Lens Type	fixed focal, f=2.8 mm/F1.6
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DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	2880 x 1620, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 704 x 576, 704 x 480, 640 x 480 (VGA), 480 x 240, 352 x 288 (CIF), 352 x 240
Frame Rate	30 fps for each resolution
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+, MJPEG/G.711
Number of Simultaneous Conne	ctionsmax. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP, RTMP
ONVIF Protocol Support	Profile S
Camera Configuration	from Internet Explorer browser • languages: Polish, English, and others
Compatible Software	NMS, N Control 6000







Bullet IP Camera NVIP-5H-6201-II/7043

Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	abandoned object, object disappearance, line cross, Scene Change, intrusion detection
Image Processing	sharpening, mirror effect, corridor mode, vertical flip, horizontal flip
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card $$
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	1
Range	30 m
Smart IR	yes (software support)
INTERFACES	
Audio Input/Output	1 x Jack (3.5 mm)/- built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	
Dimensions (mm)	with bracket: 74.5 (W) x 74.5 (H) x 167.5 (L)
Weight	0.4 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, grey, fully cable managed wall mount bracket in-set included , IK10 impact rating
Power Supply	12 VDC, PoE (IEEE 802.3af, Class 3)
Surge protection	TVS 4000 V
Power Consumption	3.5 W • 6 W (IR illuminator on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)







NoVus

Bullet IP Camera

NVIP-5H-6202





KEY FEATURES

















- •Resolution: 5 MPX
- •Lens: varifocal, f=2.8 ~ 12 mm/F1.4
- •D/N function IR cut filter
- •Video content analysis
- microSD card support
- •Min. Illumination: 0.01 lx (0 lx, IR on)
- \bullet IR LED, range up to 50 m $\,$

DIMENSIONS



IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2608 (H) x 1960 (V)
Min. Illumination	0.01 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/2 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

arifocal, $f=2.8 \sim 12 \text{ mm/F1.4}$
ć

DAY/NIGHT

DAT/NIGHT	
Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

NETWORK	
Stream Resolution	2592 x 1944, 2560 x 1440 (QHD), 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	25 fps for 2592 x 1944 • 30 fps for 2560 x 1440 (QHD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.265/-
Number of Simultaneous Conne	ctionsmax. 4
Bandwidth	16 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS
ONVIF Protocol Support	Profile S









Bullet IP Camera NVIP-5H-6202

Camera Configuration

camera comigaration	and others
Compatible Software	NMS, NVR-6000 Viewer
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	3
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, Scene Change, Video Color Cast
Image Processing	$180\ensuremath{^\circ}$ image rotation, sharpening, mirror effect, vertical flip, horizontal flip
Prealarm/Postalarm	-/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	2
Range	50 m
Angle	90°
INTERFACES	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB
INSTALLATION PARAMETERS	
Dimensions (mm)	with bracket: 81 (W) x 81 (H) x 220 (L)
Weight	0.7 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included , IK10 impact rating
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	3 W • 8 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

from Internet Explorer browser • languages: Polish, English, Russian,

25 fps for 2592 x 1944 resolution, Reset button and micorSD card slot available for cameras with serial number NVIP-5H-6202210416xxxx and later.







Bullet IP Camera with Motor-zoom Lens **NVIP-5H-6202M**





KEY FEATURES

















- •Resolution: 5 MPX
- •Lens: motorized, auto-focus function, f=2.8 \sim 12 mm/F1.4
- •D/N function IR cut filter
- Video content analysis
- •microSD card support
- •Min. Illumination: 0.01 lx (0 lx, IR on)
- •IR LED, range up to 50 m

DIMENSIONS







220 mm

IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2608 (H) x 1960 (V)
Min. Illumination	0.01 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/2 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, f=2.8 ~ 12 mm/F1.4
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	2592 x 1944, 2560 x 1440 (QHD), 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	25 fps for 2592 x 1944 • 30 fps for 2560 x 1440 (QHD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.265/-
Number of Simultaneous Connection	nsmax. 4
Bandwidth	16 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS
ONVIF Protocol Support	Profile S







Bullet IP Camera with Motor-zoom Lens NVIP-5H-6202M

Comora Configuration	from Internet Evalurer browser a languages, Polich English Russian
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, NVR-6000 Viewer
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	3
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, Scene Change, Video Color Cast
Image Processing	$180\ensuremath{^\circ}$ image rotation, sharpening, mirror effect, vertical flip, horizontal flip
Prealarm/Postalarm	-/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	2
Range	50 m
Angle	90°
INTERFACES	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB
INSTALLATION PARAMETERS	
Dimensions (mm)	with bracket: 81 (W) x 81 (H) x 220 (L)
Weight	0.7 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included , IK10 impact rating
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	5 W • 10 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

25 fps for 2592 x 1944 resolution, Reset button and micorSD card slot available for cameras with serial number NVIP-5H-6202M210416xxxx and later.







IP Motor-zoom Camera with video content analysis based on Deep Learning

NVIP-5V-6502M/F





KEY FEATURES















- •Resolution: 5 MPX
- •Lens: motorized, auto-iris and auto-focus function,
- •built-in microphone
- •Video content analysis based on Deep Learning
- •microSD card support
- •WDR with double scan sensor
- •two-way audio
- •IR LED, range up to 50 m

DIMENSIONS







141 mm (Ø)

IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" OmniVision
Number of Effective Pixels	2688 (H) x 1944 (V)
Min. Illumination	0.007 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, auto-iris function, f=2.8 \sim 12 mm/F1.4
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	2592 x 1944, 2592 x 1520, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 2592 x 1944 • 60 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Conne	ectionsmax. 10
Barriel City	CO.M. /

Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, SNMP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast. SSL/TLS









IP Motor-zoom Camera with video content analysis based on Deep Learning NVIP-5V-6502M/F

ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian and others
Compatible Software	NMS, NVR-6000 Viewer, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color or 1 video mask type: mosaic
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, pedestrian detection, cross counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle detection, vehicle counting
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card, alarm output activation
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	3
Range	50 m
Smart IR	yes (software support)
INTERFACES	
Video Output	BNC, 1.0 Vp-p, 75 Ohm
Audio Input/Output	1 x Jack (3.5 mm)/1 x Jack (3.5 mm) built-in microphone
Alarm Input/Output	1 (NO/NC)/1 relay type
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	
Dimensions (mm)	141 (Φ) x 100 (H)
Weight	1 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white poly-carbonate bubble
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	6 W • 11 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)







IP Camera with video content analysis based on Deep Learning

NVIP-5VE-6501/F





KEY FEATURES





















- •Lens: fixed focal, f=2.8 mm/F1.6
- ·built-in microphone
- •D/N function IR cut filter
- •Video content analysis based on Deep Learning
- microSD card support
- •WDR with double scan sensor
- •Min. Illumination: 0.009 lx (0 lx, IR on)
- •IR LED, range up to 30 m

DIMENSIONS







IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" OmniVision
Number of Effective Pixels	2688 (H) x 1944 (V)
Min. Illumination	0.009 lx/F1.6 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/10000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type fix	xed focal, $f=2.8 \text{ mm/F}1.6$
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DAY/NIGHT

DAT/MIGHT	
Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

ONVIF Protocol Support

NEIWORK	
Stream Resolution	2592×1944 , 2592×1520 , 2560×1440 (QHD), 2304×1296 , 1920×1080 (Full HD), 1280×720 (HD), 704×576 , 704×480 , 480×240 , 352×288 (CIF), 352×240
Frame Rate	30 fps for 2592 x 1944 • 60 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Conne	ctionsmax. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP, ICMP, SSL/TLS

Profile S/G







IP Camera with video content analysis based on Deep Learning NVIP-5VE-6501/F

Camera Configuration	from Internet Explorer browser \bullet languages: Polish, English, Russian, and others
Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, line cross, zone entrance, zone exit, object counting, face detection, pedestrian detection, cross counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle detection, vehicle counting
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card $$
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	1
Range	30 m
Smart IR	yes (software support)
INTERFACES	
Audio Input/Output	1 x Jack (3.5 mm)/- built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	
Dimensions (mm)	97 (Φ) x 83 (H)
Weight	0.5 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	5 W • 7 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)







IP Motor-zoom Camera with video content analysis based on Deep Learning

NVIP-5VE-6502M/F





KEY FEATURES



















- •Resolution: 5 MPX
- •Lens: motorized, auto-iris and auto-focus function, $f=2.8\sim12$ mm/F1.4
- •built-in microphone
- •D/N function IR cut filter
- •Video content analysis based on Deep Learning
- microSD card support
- •WDR with double scan sensor •Min. Illumination: 0.007 lx (0 lx, IR on)
- •IR LED, range up to 50 m

DIMENSIONS



112 mm (Ø)



IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" OmniVision
Number of Effective Pixels	2688 (H) x 1944 (V)
Min. Illumination	0.007 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, auto-iris function, f=2.8 \sim 12 mm/F1.4
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	2592 x 1944, 2592 x 1520, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 2592 x 1944 • 60 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Conne	ectionsmax. 10
Bandwidth	60 Mb/s in total

Network Protocols Support

HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, SNMP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS







IP Motor-zoom Camera with video content analysis based on Deep Learning NVIP-5VE-6502M/F

ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, NVR-6000 Viewer
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color or 1 video mask type: mosaic
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, pedestrian detection, cross counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle detection, vehicle counting
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	3
Range	50 m
Smart IR	yes (software support)
INTERFACES	
Audio Input/Output	1 x Jack (3.5 mm)/- built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
Memory Cara Side	micross cupacity up to 2500B
INSTALLATION PARAMETERS	
Dimensions (mm)	
	112 (Φ) x 100 (H)
Weight	112 (Φ) x 100 (H) 0.7 kg
Weight Degree of Protection	
	0.7 kg
Degree of Protection	0.7 kg IP 67 (details in the user's manual)
Degree of Protection Enclosure	0.7 kg IP 67 (details in the user's manual) vandalproof IK10 impact rating aluminium, white
Degree of Protection Enclosure Power Supply	0.7 kg IP 67 (details in the user's manual) vandalproof IK10 impact rating aluminium, white PoE, 12 VDC
Degree of Protection Enclosure Power Supply Surge protection	0.7 kg IP 67 (details in the user's manual) vandalproof IK10 impact rating aluminium, white PoE, 12 VDC TVS 4000 V







IP Motor-zoom Camera with video content analysis based on Deep Learning

NVIP-5H-6502M/F





KEY FEATURES















- •Resolution: 5 MPX
- •Lens: motorized, auto-iris and auto-focus function,
- Human/Vehicle Object Classification
- •D/N function IR cut filter
- •Video content analysis based on Deep Learning
- •microSD card support
- ·WDR with double scan sensor •Min. Illumination: 0.007 lx (0 lx, IR on)
- \bullet IR LED, range up to 50 m

DIMENSIONS



IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" OmniVision
Number of Effective Pixels	2688 (H) x 1944 (V)
Min. Illumination	0.007 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, auto-iris function, f=2.8 ~ 12 mm/F1.4
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	2592 x 1944, 2592 x 1520, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 2592 x 1944 • 60 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711

Number of Simultaneous Connectionsmax. 10

Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, SNMP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSI /TI S









IP Motor-zoom Camera with video content analysis based on Deep Learning NVIP-5H-6502M/F

Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian,
	and others
Compatible Software	NMS, NVR-6000 Viewer
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color or 1 video mask type: mosaic
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, pedestrian detection, cross counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle detection, vehicle counting
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	3
Range	50 m
Smart IR	yes (software support)
INTERFACES	
Audio Input/Output	1 x Jack (3.5 mm)/-
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	
Dimensions (mm)	with bracket: 81 (W) x 81 (H) x 220 (L)
Weight	0.7 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included , IK10 impact rating
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	6 W • 9 W (IR on)
Operating Temperature	-30°C ~ 60°C







IP Camera with video content analysis based on Deep Learning

NVIP-5H-6511/F





KEY FEATURES





















- •Lens: fixed focal, f=2.8 mm/F1.6
- •Human/Vehicle Object Classification
- •D/N function IR cut filter
- •Video content analysis based on Deep Learning
- microSD card support
- •WDR with double scan sensor
- •Min. Illumination: 0.009 lx (0 lx, IR on)
- •IR LED, range up to 50 m

DIMENSIONS



IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" OmniVision
Number of Effective Pixels	2688 (H) x 1944 (V)
Min. Illumination	0.009 lx/F1.6 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/10000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type fixed focal, f=2.8 m	nm/F1.6
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DAY/NIGHT

ONVIF Protocol Support

•	
Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK	
Stream Resolution	2592 x 1944, 2592 x 1520, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 704 x 576, 704 x 480, 480 x 240, 352 x 288 (CIF), 352 x 240
Frame Rate	30 fps for 2592 x 1944 • 60 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Connec	ctionsmax. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP, ICMP, SSL/TLS

Profile S/G









IP Camera with video content analysis based on Deep Learning NVIP-5H-6511/F

Camera Configuration	from Internet Explorer browser \bullet languages: Polish, English, Russian, and others
Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, line cross, zone entrance, zone exit, object counting, face detection, pedestrian detection, cross counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle detection, vehicle counting
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card $$
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	2
Range	50 m
Smart IR	yes (software support)
INTERFACES	
Audio Input/Output	1 x Jack (3.5 mm)/-
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	
Dimensions (mm)	with bracket: 81 (W) x 81 (H) x 220 (L)
Weight	0.7 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	6 W • 9 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)







IP Motor-zoom Camera with video content analysis based on Deep Learning

NVIP-5H-6522M/F





KEY FEATURES















- •Resolution: 5 MPX
- ·Lens: motorized, auto-iris and auto-focus function,
- Human/Vehicle Object Classification
- •Video content analysis based on Deep Learning
- •microSD card support
- •WDR with double scan sensor
- •IR LED, range up to 70 m

DIMENSIONS







IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" OmniVision
Number of Effective Pixels	2688 (H) x 1944 (V)
Min. Illumination	0.007 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, auto-iris function, f=2.8 \sim 12 mm/F1.4
Auto-focus	zoom trigger day/night mode trigger manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	2592 x 1944, 2592 x 1520, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 2592 x 1944 • 60 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Conne	ctionsmax. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS,

Unicast, SSL/TLS



NTP, RTSP, UPnP, SNMP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP,





IP Motor-zoom Camera with video content analysis based on Deep Learning NVIP-5H-6522M/F

ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, NVR-6000 Viewer, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color or 1 video mask type: mosaic
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, pedestrian detection, cross counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle detection, vehicle counting
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	4
Range	up to 70 m (depends on current optical zoom value)
Smart IR	yes (software support)
INTERFACES	
Video Output	BNC, 1.0 Vp-p, 75 Ohm
Audio Input/Output	1 x Jack (3.5 mm)/1 x Jack (3.5 mm)
Alarm Input/Output	1 (NO/NC)/1 relay type
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	
Dimensions (mm)	with bracket: 101 (W) x 89 (H) x 280 (L)
Weight	1.1 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included , IK10 impact rating
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	7.5 W • 14 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)







Vandal Proof IP Camera

NVIP-8VE-6201





KEY FEATURES

















83 mm

- •Resolution: 8 MPX (4K Ultra HD)
- •Lens: fixed focal, f=2.8 mm/F1.6
- •built-in microphone
- •D/N function IR cut filter
- •Video content analysis
- •microSD card support
- •WDR with double scan sensor
- •Min. Illumination: 0.06 lx (0 lx, IR on)
- •IR LED, range up to 30 m

DIMENSIONS







IMAGE

Image Sensor	8 MPX CMOS sensor 1/2.8" SONY STARVIS
Number of Effective Pixels	3864 (H) x 2192 (V)
Min. Illumination	0.06 lx/F1.6 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type fix	xed focal, $f=2.8 \text{ mm/F}1.6$
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DAY/NIGHT

DAT/MOTT	
Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	3840 x 2160 (4K Ultra HD), 3072 x 2048, 2592 x 1944, 2560 x 1440 (QHD), 1920 x 1080 (Full HD), 1280 x 720 (HD), 704 x 576, 704 x 480, 480 x 240, 352 x 288 (CIF), 352 x 240
Frame Rate	20 fps for 3840 x 2160 (UHD), 3072 x 2048 \bullet 30 fps for 2592 x 1944 and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+, MJPEG/G.711
Number of Simultaneous Connectionsmax. 10	
Bandwidth	40 Mb/s in total
Network Protocols Support	HTTP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP, ICMP
ONVIF Protocol Support	Profile S/G





Vandal Proof IP Camera NVIP-8VE-6201

Camera Configuration	from Internet Explorer browser \bullet languages: Polish, English, Russian, and others
Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	3
Video Content Analysis (VCA)	tamper, line cross, zone entrance, Scene Change, Video Blurred, Video Color Cast
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	1
Range	30 m
Smart IR	yes (software support)
INTERFACES	
Audio Input/Output	1 x Jack (3.5 mm)/- built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	
Dimensions (mm)	95 (Φ) x 83 (H)
Weight	0.5 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	6 W • 10 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)







Vandal Proof IP Camera with Motor-zoom Lens

NVIP-8VE-6202M





KEY FEATURES

















- •Resolution: 8 MPX (4K Ultra HD)
- •Lens: motorized, auto-focus function, f=2.8 ~ 12 mm/F1.4
- •built-in microphone
- •D/N function IR cut filter
- •Video content analysis
- •microSD card support
- •WDR with double scan sensor
- •Min. Illumination: 0.05 lx (0 lx, IR on)
- •IR LED, range up to 50 m

DIMENSIONS



100 mm

112 mm (Ø)



IMAGE

Image Sensor	8 MPX CMOS sensor 1/2.8" SONY STARVIS
Number of Effective Pixels	3864 (H) x 2192 (V)
Min. Illumination	0.05 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, $f=2.8 \sim 12$ mm/F1.4
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK	
Stream Resolution	3840 x 2160 (4K Ultra HD), 3072 x 2048, 2592 x 1944, 2560 x 1440 (QHD), 1920 x 1080 (Full HD), 1280 x 720 (HD), 704 x 576, 704 x 480, 480 x 240, 352 x 288 (CIF), 352 x 240
Frame Rate	20 fps for 3840 x 2160 (UHD), 3072 x 2048 • 30 fps for 2592 x 1944 and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+, MJPEG/G.711
Number of Simultaneous Conne	ctionsmax. 10
Bandwidth	40 Mb/s in total
Network Protocols Support	HTTP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP, ICMP
ONVIF Protocol Support	Profile S/G







Vandal Proof IP Camera with Motor-zoom Lens NVIP-8VE-6202M

Compatible Software Mobile applications SuperLive Plus (iPhone, Android) OTHER FUNCTIONS Privacy Zones 4 video mask type: single color Motion Detection yes Region of interest (ROI) 3 Video Color Cast Image Processing 180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction Prealarm/Postalarm up to 6 s/up to 120 s System Reaction to Alarm Events e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card Restoring default settings via web browser, using reset button, via NMS IPTool software IR LED LED Number 2 Range 50 m Smart IR yes (software support) INTERFACES Audio Input/Output 1 x Jack (3.5 mm)/- built-in microphone Network Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 256GB INSTALLATION PARAMETERS Dimensions (mm) 112 (Φ) x 100 (H) Weight 0.7 kg Degree of Protection IP 67 (details in the user's manual) Enclosure vandalproof IK10 impact rating aluminium, white Power Supply PoE, 12 VDC Surge protection TVS 4000 V Power Consumption 7 W • 12 W (IR on) Operating Temperature 4 video mask type: single color 4 video Color Cast tamper, line cross, zone entrance, Scene Change, Video Blurred, Vide	Camera Configuration	from Internet Explorer browser \bullet languages: Polish, English, Russian, and others
OTHER FUNCTIONS Privacy Zones 4 video mask type: single color Motion Detection yes Region of interest (ROI) 3 Video Content Analysis (VCA) tamper, line cross, zone entrance, Scene Change, Video Blurred, Video Color Cast Image Processing 180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction Prealarm/Postalarm up to 6 s/up to 120 s System Reaction to Alarm Events e-mail, e-mail, with attachment, saving file on FTP server, saving file on SD card Restoring default settings via web browser, using reset button, via NMS IPTool software IR LED LED Number 2 Range 50 m Smart IR yes (software support) INTERFACES Audio Input/Output 1 x Jack (3.5 mm)/- built-in microphone Network Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s Memory Card Slot microSD - capacity up to 256GB INSTALLATION PARAMETERS Dimensions (mm) 112 (Φ) x 100 (H) Weight 0.7 kg Degree of Protection IP 67 (details in the user's manual) Enclosure vandalproof IK10 impact rating aluminium, white Power Supply PoE, 12 VDC Surge protection TVS 4000 V Power Consumption 7 W • 12 W (IR on) Operating Temperature -30°C ~ 60°C	Compatible Software	NMS, N Control 6000
Privacy Zones 4 video mask type: single color Motion Detection yes Region of interest (ROI) 3 Video Content Analysis (VCA) tamper, line cross, zone entrance, Scene Change, Video Blurred, Video Color Cast Image Processing 180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction Prealarm/Postalarm up to 6 s/up to 120 s System Reaction to Alarm Events e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card Restoring default settings via web browser, using reset button, via NMS IPTool software IR LED LED Number Zeron 2 Range 50 m Smart IR yes (software support) INTERFACES Audio Input/Output 1 x Jack (3.5 mm)/- built-in microphone Network Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s Memory Card Slot microSD - capacity up to 256GB INSTALLATION PARAMETERS Dimensions (mm) 112 (Φ) x 100 (H) Weight 0.7 kg Degree of Protection IP 67 (details in the user's manual) Enclosure vandalproof IK10 impact rating aluminium, white Power Sup	Mobile applications	SuperLive Plus (iPhone, Android)
Motion Detection yes Region of interest (ROI) 3 Video Content Analysis (VCA) tamper, line cross, zone entrance, Scene Change, Video Blurred, Video Color Cast Image Processing 180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction Prealarm/Postalarm up to 6 s/up to 120 s System Reaction to Alarm Events e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card Restoring default settings via web browser, using reset button, via NMS IPTool software IR LED LED Number Smart IR yes (software support) INTERFACES Audio Input/Output Audio Input/Output 1 x Jack (3.5 mm)/- built-in microphone Network Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s Memory Card Slot microSD - capacity up to 256GB INSTALLATION PARAMETERS Dimensions (mm) 112 (Φ) x 100 (H) Weight 0.7 kg Degree of Protection IP 67 (details in the user's manual) Enclosure vandalproof IK10 impact rating aluminium, white Power Supply PoE, 12 VDC Surge protection TVS 4000 V Power Consumption 7 W	OTHER FUNCTIONS	
Region of interest (ROI) Video Content Analysis (VCA) Video Color Cast Image Processing 180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction Prealarm/Postalarm up to 6 s/up to 120 s System Reaction to Alarm Events e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card Restoring default settings via web browser, using reset button, via NMS IPTool software IR LED LED Number 2 Range 50 m Smart IR yes (software support) INTERFACES Audio Input/Output 1 x Jack (3.5 mm)/- built-in microphone Network Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s Memory Card Slot microSD - capacity up to 256GB INSTALLATION PARAMETERS Dimensions (mm) 112 (Φ) x 100 (H) Weight 0.7 kg Degree of Protection IP 67 (details in the user's manual) Enclosure vandalproof IK10 impact rating aluminium, white Power Supply PoE, 12 VDC Surge protection TVS 4000 V Power Consumption 7 W • 12 W (IR on) Operating Temperature -30°C ~ 60°C	Privacy Zones	4 video mask type: single color
Video Content Analysis (VCA) tamper, line cross, zone entrance, Scene Change, Video Blurred, Video Color Cast Image Processing 180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction Prealarm/Postalarm up to 6 s/up to 120 s System Reaction to Alarm Events e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card Restoring default settings via web browser, using reset button, via NMS IPTool software IR LED LED Number 2 Range 50 m Smart IR yes (software support) INTERFACES Audio Input/Output 1 x Jack (3.5 mm)/- built-in microphone Network Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s Memory Card Slot INSTALLATION PARAMETERS Dimensions (mm) 112 (Φ) x 100 (H) Weight 0.7 kg Degree of Protection IP 67 (details in the user's manual) Enclosure vandalproof IK10 impact rating aluminium, white Power Supply PoE, 12 VDC Surge protection TVS 4000 V Power Consumption 7 W • 12 W (IR on) Operating Temperature	Motion Detection	yes
Video Color Cast Image Processing 180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction Prealarm/Postalarm up to 6 s/up to 120 s System Reaction to Alarm Events e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card Restoring default settings via web browser, using reset button, via NMS IPTool software IR LED LED Number 2 Range 50 m Smart IR INTERFACES yes (software support) Audio Input/Output 1 x Jack (3.5 mm)/- built-in microphone Network Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s Memory Card Slot microSD - capacity up to 256GB INSTALLATION PARAMETERS Dimensions (mm) 112 (Φ) x 100 (H) Weight 0.7 kg Degree of Protection IP 67 (details in the user's manual) Enclosure vandalproof IK10 impact rating aluminium, white Power Supply PoE, 12 VDC Surge protection TVS 4000 V Power Consumption 7 W • 12 W (IR on) Operating Temperature -30°C ~ 60°C	Region of interest (ROI)	3
vertical flip, horizontal flip, lens distortion correction Prealarm/Postalarm up to 6 s/up to 120 s System Reaction to Alarm Events e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card Restoring default settings via web browser, using reset button, via NMS IPTool software IR LED LED Number 2 Range 50 m Smart IR yes (software support) INTERFACES Audio Input/Output 1 x Jack (3.5 mm)/- built-in microphone Network Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s Memory Card Slot microSD - capacity up to 256GB INSTALLATION PARAMETERS Dimensions (mm) 112 (Φ) x 100 (H) Weight 0.7 kg Degree of Protection IP 67 (details in the user's manual) Enclosure vandalproof IK10 impact rating aluminium, white Power Supply PoE, 12 VDC Surge protection TVS 4000 V Power Consumption 7 W • 12 W (IR on) Operating Temperature -30°C ~ 60°C	Video Content Analysis (VCA)	
System Reaction to Alarm Events e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card Restoring default settings via web browser, using reset button, via NMS IPTool software IR LED LED Number 2 Range 50 m Smart IR yes (software support) INTERFACES Audio Input/Output 1 x Jack (3.5 mm)/- built-in microphone Network Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s Memory Card Slot microSD - capacity up to 256GB INSTALLATION PARAMETERS Dimensions (mm) 112 (Φ) x 100 (H) Weight 0.7 kg Degree of Protection IP 67 (details in the user's manual) Enclosure vandalproof IK10 impact rating aluminium, white Power Supply PoE, 12 VDC Surge protection TVS 4000 V Power Consumption 7 W • 12 W (IR on) Operating Temperature -30°C ~ 60°C	Image Processing	
on SD card Restoring default settings via web browser, using reset button, via NMS IPTool software IR LED LED Number 2 Range 50 m Smart IR yes (software support) INTERFACES Audio Input/Output 1 x Jack (3.5 mm)/- built-in microphone Network Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s Memory Card Slot microSD - capacity up to 256GB INSTALLATION PARAMETERS Dimensions (mm) 112 (Φ) x 100 (H) Weight 0.7 kg Degree of Protection IP 67 (details in the user's manual) Enclosure vandalproof IK10 impact rating aluminium, white Power Supply PoE, 12 VDC Surge protection TVS 4000 V Power Consumption 7 W • 12 W (IR on) Operating Temperature -30°C ~ 60°C	Prealarm/Postalarm	up to 6 s/up to 120 s
IR LED LED Number 2 Range 50 m Smart IR yes (software support) INTERFACES Audio Input/Output 1 x Jack (3.5 mm)/- built-in microphone Network Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s Memory Card Slot microSD - capacity up to 256GB INSTALLATION PARAMETERS Dimensions (mm) 112 (Φ) x 100 (H) Weight 0.7 kg Degree of Protection IP 67 (details in the user's manual) Enclosure vandalproof IK10 impact rating aluminium, white Power Supply PoE, 12 VDC Surge protection TVS 4000 V Power Consumption 7 W • 12 W (IR on) Operating Temperature -30°C ~ 60°C	System Reaction to Alarm Events	
LED Number 2 Range 50 m Smart IR yes (software support) INTERFACES Audio Input/Output 1 x Jack (3.5 mm)/- built-in microphone Network Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s Memory Card Slot microSD - capacity up to 256GB INSTALLATION PARAMETERS Dimensions (mm) 112 (Φ) x 100 (H) Weight 0.7 kg Degree of Protection IP 67 (details in the user's manual) Enclosure vandalproof IK10 impact rating aluminium, white Power Supply PoE, 12 VDC Surge protection TVS 4000 V Power Consumption 7 W • 12 W (IR on) Operating Temperature -30°C ~ 60°C	Restoring default settings	via web browser, using reset button, via NMS IPTool software
Range 50 m Smart IR yes (software support) INTERFACES Audio Input/Output 1 x Jack (3.5 mm)/- built-in microphone Network Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s Memory Card Slot microSD - capacity up to 256GB INSTALLATION PARAMETERS Dimensions (mm) 112 (Φ) x 100 (H) Weight 0.7 kg Degree of Protection IP 67 (details in the user's manual) Enclosure vandalproof IK10 impact rating aluminium, white Power Supply PoE, 12 VDC Surge protection TVS 4000 V Power Consumption 7 W • 12 W (IR on) Operating Temperature -30°C ~ 60°C	IR LED	
Smart IR yes (software support) INTERFACES Audio Input/Output 1 x Jack (3.5 mm)/- built-in microphone Network Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s Memory Card Slot microSD - capacity up to 256GB INSTALLATION PARAMETERS Dimensions (mm) 112 (Φ) x 100 (H) Weight 0.7 kg Degree of Protection IP 67 (details in the user's manual) Enclosure vandalproof IK10 impact rating aluminium, white Power Supply PoE, 12 VDC Surge protection TVS 4000 V Power Consumption 7 W • 12 W (IR on) Operating Temperature -30°C ~ 60°C	LED Number	2
INTERFACES Audio Input/Output 1 x Jack (3.5 mm)/- built-in microphone Network Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s Memory Card Slot microSD - capacity up to 256GB INSTALLATION PARAMETERS Dimensions (mm) 112 (Φ) x 100 (H) Weight 0.7 kg Degree of Protection IP 67 (details in the user's manual) Enclosure vandalproof IK10 impact rating aluminium, white Power Supply PoE, 12 VDC Surge protection TVS 4000 V Power Consumption 7 W • 12 W (IR on) Operating Temperature -30°C ~ 60°C	Range	50 m
Audio Input/Output 1 x Jack (3.5 mm)/- built-in microphone Network Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s Memory Card Slot microSD - capacity up to 256GB INSTALLATION PARAMETERS Dimensions (mm) 112 (Φ) x 100 (H) Weight 0.7 kg Degree of Protection IP 67 (details in the user's manual) Enclosure vandalproof IK10 impact rating aluminium, white Power Supply PoE, 12 VDC Surge protection TVS 4000 V Power Consumption 7 W • 12 W (IR on) Operating Temperature -30°C ~ 60°C	Smart IR	yes (software support)
Network Interface1 x Ethernet - RJ-45 interface, 10/100 Mbit/sMemory Card SlotmicroSD - capacity up to 256GBINSTALLATION PARAMETERSDimensions (mm)112 (Φ) x 100 (H)Weight0.7 kgDegree of ProtectionIP 67 (details in the user's manual)Enclosurevandalproof IK10 impact rating aluminium, whitePower SupplyPoE, 12 VDCSurge protectionTVS 4000 VPower Consumption7 W • 12 W (IR on)Operating Temperature-30°C ~ 60°C	INTERFACES	
Memory Card Slot microSD - capacity up to 256GB INSTALLATION PARAMETERS Dimensions (mm) 112 (Φ) x 100 (H) Weight 0.7 kg Degree of Protection IP 67 (details in the user's manual) Enclosure vandalproof IK10 impact rating aluminium, white Power Supply PoE, 12 VDC Surge protection TVS 4000 V Power Consumption 7 W • 12 W (IR on) Operating Temperature -30°C ~ 60°C	Audio Input/Output	1 x Jack (3.5 mm)/- built-in microphone
INSTALLATION PARAMETERSDimensions (mm)112 (Φ) x 100 (H)Weight0.7 kgDegree of ProtectionIP 67 (details in the user's manual)Enclosurevandalproof IK10 impact rating aluminium, whitePower SupplyPoE, 12 VDCSurge protectionTVS 4000 VPower Consumption7 W • 12 W (IR on)Operating Temperature-30°C ~ 60°C	Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Dimensions (mm)112 (Φ) x 100 (H)Weight0.7 kgDegree of ProtectionIP 67 (details in the user's manual)Enclosurevandalproof IK10 impact rating aluminium, whitePower SupplyPoE, 12 VDCSurge protectionTVS 4000 VPower Consumption7 W • 12 W (IR on)Operating Temperature-30°C ~ 60°C	Memory Card Slot	microSD - capacity up to 256GB
Weight 0.7 kg Degree of Protection IP 67 (details in the user's manual) Enclosure vandalproof IK10 impact rating aluminium, white Power Supply PoE, 12 VDC Surge protection TVS 4000 V Power Consumption 7 W • 12 W (IR on) Operating Temperature -30°C ~ 60°C	INSTALLATION PARAMETERS	
Degree of Protection IP 67 (details in the user's manual) Enclosure vandalproof IK10 impact rating aluminium, white Power Supply PoE, 12 VDC Surge protection TVS 4000 V Power Consumption 7 W • 12 W (IR on) Operating Temperature -30°C ~ 60°C	Dimensions (mm)	112 (Φ) x 100 (H)
Enclosure vandalproof IK10 impact rating aluminium, white Power Supply PoE, 12 VDC Surge protection TVS 4000 V Power Consumption 7 W • 12 W (IR on) Operating Temperature -30°C ~ 60°C	Weight	0.7 kg
Power Supply PoE, 12 VDC Surge protection TVS 4000 V Power Consumption 7 W • 12 W (IR on) Operating Temperature -30°C ~ 60°C	Degree of Protection	IP 67 (details in the user's manual)
Surge protection TVS 4000 V Power Consumption 7 W • 12 W (IR on) Operating Temperature -30°C ~ 60°C	Enclosure	vandalproof IK10 impact rating aluminium, white
Power Consumption 7 W • 12 W (IR on) Operating Temperature -30°C ~ 60°C	Power Supply	PoE, 12 VDC
Operating Temperature -30°C ~ 60°C	Surge protection	TVS 4000 V
	Power Consumption	7 W • 12 W (IR on)
Humidity max. 95%, relative (non-condensing)	Operating Temperature	-30°C ~ 60°C
	Humidity	max. 95%, relative (non-condensing)







Bullet IP Camera

NVIP-8H-6211





KEY FEATURES

















- •Resolution: 8 MPX (4K Ultra HD)
- •Lens: fixed focal, f=2.8 mm/F1.6
- •D/N function IR cut filter
- •Video content analysis
- •microSD card support
- •WDR with double scan sensor
- •Min. Illumination: 0.06 lx (0 lx, IR on)
- •IR LED, range up to 50 m

DIMENSIONS



IMAGE

Image Sensor	8 MPX CMOS sensor 1/2.8" SONY STARVIS
Number of Effective Pixels	3864 (H) x 2192 (V)
Min. Illumination	0.06 lx/F1.6 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, f=2.8 mm/F1.6
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DAY/NIGHT

DAT/NIGHT	
Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	3840 x 2160 (4K Ultra HD), 3072 x 2048, 2592 x 1944, 2560 x 1440 (QHD), 1920 x 1080 (Full HD), 1280 x 720 (HD), 704 x 576, 704 x 480, 480 x 240, 352 x 288 (CIF), 352 x 240
Frame Rate	20 fps for 3840 x 2160, 3072 x 2048 • 30 fps for 2592 x 1944 and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+, MJPEG/G.711
Number of Simultaneous Conne	ctionsmax. 10
Bandwidth	40 Mb/s in total
Network Protocols Support	HTTP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP, ICMP
ONVIF Protocol Support	Profile S/G









Bullet IP Camera NVIP-8H-6211

Camera Configuration	from Internet Explorer browser \bullet languages: Polish, English, Russian, and others
Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	3
Video Content Analysis (VCA)	tamper, line cross, zone entrance, Scene Change, Video Blurred, Video Color Cast
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card $$
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	2
Range	50 m
Smart IR	yes (software support)
INTERFACES	
Audio Input/Output	1 x Jack (3.5 mm)/-
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	
Dimensions (mm)	with bracket: 81 (W) x 81 (H) x 220 (L)
Weight	0.7 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included , IK10 impact rating
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	6 W • 11 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)







Bullet IP Camera with Motor-zoom Lens **NVIP-8H-6202M**





KEY FEATURES

















- •Resolution: 8 MPX (4K Ultra HD)
- •Lens: motorized, auto-focus function, f=2.8 ~ 12 mm/F1.4
- •D/N function IR cut filter
- Video content analysis
- •microSD card support
- •WDR with double scan sensor
- •Min. Illumination: 0.05 lx (0 lx, IR on)
- •IR LED, range up to 50 m

DIMENSIONS



IMAGE

Image Sensor	8 MPX CMOS sensor 1/2.8" SONY STARVIS
Number of Effective Pixels	3864 (H) x 2192 (V)
Min. Illumination	0.05 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, auto-iris function, f=2.8 \sim 12 mm/F1.4
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK	
Stream Resolution	3840 x 2160 (4K Ultra HD), 3072 x 2048, 2592 x 1944, 2560 x 1440 (QHD), 1920 x 1080 (Full HD), 1280 x 720 (HD), 704 x 576, 704 x 480, 480 x 240, 352 x 288 (CIF), 352 x 240
Frame Rate	20 fps for 3840 x 2160, 3072 x 2048 • 30 fps for 2592 x 1944 and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+, MJPEG/G.711
Number of Simultaneous Conne	ectionsmax. 10
Bandwidth	40 Mb/s in total
Network Protocols Support	HTTP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP, ICMP
ONVIF Protocol Support	Profile S/G









Bullet IP Camera with Motor-zoom Lens **NVIP-8H-6202M**

Camera Configuration	from Internet Explorer browser \bullet languages: Polish, English, Russian, and others
Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	3
Video Content Analysis (VCA)	tamper, line cross, zone entrance, Scene Change, Video Blurred, Video Color Cast
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	2
Range	50 m
Smart IR	yes (software support)
INTERFACES	
Audio Input/Output	1 x Jack (3.5 mm)/-
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	
Dimensions (mm)	with bracket: 81 (W) x 81 (H) x 220 (L)
Weight	0.7 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included , IK10 impact rating
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	7 W • 12 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)







IP Motor-zoom Camera with video content analysis based on Deep Learning

NVIP-8VE-6502M/F





KEY FEATURES

















100 mm



- •Resolution: 8 MPX (4K Ultra HD)
- •Lens: motorized, auto-iris and auto-focus function, f=2.8 \sim 12 mm/F1.4
- Human/Vehicle Object Classification
- •D/N function IR cut filter
- •Video content analysis based on Deep Learning
- •microSD card support
- •WDR with double scan sensor •Min. Illumination: 0.015 lx (0 lx, IR on)
- •IR LED, range up to 50 m

DIMENSIONS







IMAGE

Image Sensor	8 MPX CMOS sensor 1/2.8" SONY STARVIS
Number of Effective Pixels	3864 (H) x 2192 (V)
Min. Illumination	0.015 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, auto-iris function, f=2.8 \sim 12 mm/F1.4
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

6	2040 0460 (48/18) 110) 2070 2040 2500 4044 2500 4500
Stream Resolution	3840 x 2160 (4K Ultra HD), 3072 x 2048, 2592 x 1944, 2592 x 1520,
	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240,
	320 x 240 (OVGA)
	320 X 240 (QVGA)
Frame Rate	20 fps for 3840 x 2160 (UHD) • 20 fps for 3072 x 2048 • 30 fps for
Traine Nate	
	2592 x 1944 • 60 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
	5 5ti Cui 15
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart,
Viaco/Addio Compression	· · · · · · · · · · · · · · · · · · ·
	MJPEG/G.711
Number of Simultaneous Conne	etianemay 10
Number of Simultaneous Conne	ectionsmax. 10

Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, SNMP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP,

Unicast, SSL/TLS









IP Motor-zoom Camera with video content analysis based on Deep Learning NVIP-8VE-6502M/F

ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, NVR-6000 Viewer
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, pedestrian detection, cross counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle detection, vehicle counting
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	2
Range	50 m
Smart IR	yes (software support)
INTERFACES	
Audio Input/Output	1 x Jack (3.5 mm)/- built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB
INSTALLATION PARAMETERS	
Dimensions (mm)	112 (Ф) x 100 (Н)
Weight	0.7 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	6 W • 10 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)







NOVUS

IP Motor-zoom Camera with video content analysis based on Deep Learning

NVIP-8H-6522M/F





KEY FEATURES















- •Resolution: 8 MPX (4K Ultra HD)
- ·Lens: motorized, auto-iris and auto-focus function,
- Human/Vehicle Object Classification
- •D/N function IR cut filter
- •Video content analysis based on Deep Learning
- •microSD card support
- •WDR with double scan sensor
- •Min. Illumination: 0.015 lx (0 lx, IR on)
- •IR LED, range up to 70 m (depends on current optical zoom value)

DIMENSIONS



IMAGE

Image Sensor	8 MPX CMOS sensor 1/2.8" SONY STARVIS
Number of Effective Pixels	3864 (H) x 2192 (V)
Min. Illumination	0.015 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, auto-iris function, f=2.8 \sim 12 mm/F1.4
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	3840 x 2160 (4K Ultra HD), 3072 x 2048, 2592 x 1944, 2592 x 1520, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	20 fps for 3840 x 2160 (UHD) • 20 fps for 3072 x 2048 • 30 fps for 2592 x 1944 • 60 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Conne	ectionsmax. 10

Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, SNMP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS







IP Motor-zoom Camera with video content analysis based on Deep Learning NVIP-8H-6522M/F

ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, NVR-6000 Viewer
Mobile applications	SuperLive Plus (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, pedestrian detection, cross counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle detection, vehicle counting
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card, alarm output activation
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	4
Range	up to 70 m (depends on current optical zoom value)
Smart IR	yes (software support)
INTERFACES	
Video Output	BNC, 1.0 Vp-p, 75 Ohm
Audio Input/Output	1 x Jack (3.5 mm)/1 x Jack (3.5 mm)
Alarm Input/Output	1 (NO/NC)/1 relay type
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB
INSTALLATION PARAMETERS	
Dimensions (mm)	with bracket: 101 (W) x 89 (H) x 280 (L)
Weight	1.1 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included , IK10 impact rating
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	8 W • 14 W (IR on)
•	
Operating Temperature	-30°C ~ 60°C









Wall/ceiling mount bracket indoor/outdoor **NVB-6005JB**



Туре	wall/ceiling mount bracket, indoor/outdoor
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	white
Load Capacity	10 kg
Dimensions (mm)	152 φ x 35 (height)
Weight	0.3 kg







Wall/ceiling mount bracket indoor/outdoor **NVB-6025JB**



Туре	wall/ceiling mount bracket, indoor/outdoor
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	white
Load Capacity	10 kg
Dimensions (mm)	112 φ x 55 (height)
Weight	0.35 kg







Wall/ceiling mount bracket indoor/outdoor NVB-6025JB/7043



DIMENSIONS



55 mm



Туре	wall/ceiling mount bracket, indoor/outdoor
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	gray
Load Capacity	10 kg
Dimensions (mm)	112 φ x 55 (height)
Weight	0.35 kg



Wall/ceiling mount bracket indoor/outdoor **NVB-6030JB**





Туре	wall/ceiling mount adapter with cable gland, indoor/outdoor
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	white
Load Capacity	10 kg
Degree of Protection	IP 66
Dimensions (mm)	118 φ x 47 (height)
Weight	0.4 kg







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Wall/ceiling mount bracket indoor/outdoor NVB-6030JB/7043



DIMENSIONS



47 mm



Туре	wall/ceiling mount adapter with cable gland, indoor/outdoor
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	gray
Load Capacity	10 kg
Degree of Protection	IP 66
Dimensions (mm)	118 φ x 47 (height)
Weight	0.4 ka



Wall/ceiling mount bracket indoor/outdoor **NVB-6035JB**





Туре	wall/ceiling mount adapter with cable gland, indoor/outdoor
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	white
Load Capacity	10 kg
Degree of Protection	IP 66
Dimensions (mm)	140 φ x 50 (height)
Weight	0.5 kg







Wall/ceiling mount bracket indoor/outdoor NVB-6035JB/7043





Туре	wall/ceiling mount adapter with cable gland, indoor/outdoor
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	gray
Load Capacity	10 kg
Degree of Protection	IP 66
Dimensions (mm)	140 φ x 50 (height)
Weight	0.5 kg





Wall/ceiling mount bracket indoor/outdoor **NVB-6040JB**





Туре	wall/ceiling mount adapter with cable gland, indoor/outdoor
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	white
Load Capacity	10 kg
Degree of Protection	IP 66
Dimensions (mm)	156 φ x 50 (height)
Weight	0.6 kg







Ceiling/wall mount cable managed bracket indoor/outdoor

NVB-6045JB





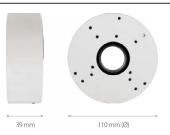
131 mm (Ø)

Туре	wall/ceiling mount adapter with cable gland, indoor/outdoor
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	white
Load Capacity	2 kg
Dimensions (mm)	131 φ x 33 (height)
Weight	0.5 kg

Wall/ceiling mount bracket indoor

NVB-6050JB





Туре	wall/ceiling mount bracket, indoor
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminum alloy
Color	white
Load Capacity	3 kg
Dimensions (mm)	110 φ x 39 (height)
Weight	0.3 kg



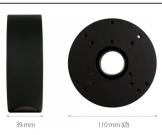




Wall/ceiling mount bracket indoor

NVB-6050JB/7043





Туре	wall/ceiling mount bracket, indoor
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminum alloy
Color	gray
Load Capacity	3 kg
Dimensions (mm)	110 φ x 39 (height)
Weight	0.3 kg
Weight	0.3 kg



wall/ceiling mount bracket, indoor

NVB-6055JB





Туре	wall/ceiling mount bracket, indoor
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminum alloy
Color	white
Load Capacity	3 kg
Dimensions (mm)	132 φ x 39 (height)
Weight	0.3 kg







wall/ceiling mount bracket, indoor

NVB-6055JB/7043







Туре	wall/ceiling mount bracket, indoor
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminum alloy
Color	gray
Load Capacity	3 kg
Dimensions (mm)	132 φ x 39 (height)
Weight	0.3 kg





Wall Mount Bracket

NVB-6000WB







Туре	wall mount cable-managed bracket
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	white
Load Capacity	2 kg
Dimensions (mm)	129.5 (W) x 74.5 (H) x 155 (L)
Weight	0.5 kg







Wall Mount Bracket

NVB-6000WB/7043



DIMENSIONS



129.5 mm



wall mount cable-managed bracket
selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
aluminium
gray
2 kg
129.5 (W) x 74.5 (H) x 155 (L)
0.5 kg

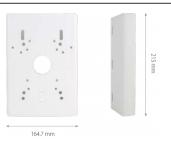




Pole mount adapter

NVB-6000PA





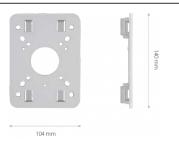
Туре	pole mount adapter
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	steel
Color	white
Load Capacity	8 kg
Dimensions (mm)	164 (W) x 215 (H) ϕ range = 80 \sim 140
Weight	1 kg



Pole mount adapter

NVB-6050PA





Туре	pole mount adapter
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	white
Load Capacity	5 kg
Dimensions (mm)	104 (W) x 140 (H) φ range = 80 \sim 140
Weight	0.2 kg



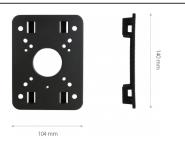




Pole mount adapter

NVB-6050PA/7043





Туре	pole mount adapter
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	gray
Load Capacity	5 kg
Dimensions (mm)	104 (W) x 140 (H) φ range = 80 ~ 140
Weight	0.2 kg



Wall/ceiling mount bracket indoor/outdoor

NVB-6015VB



Туре	wall mount cable-managed bracket, indoor/outdoor
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	white
Load Capacity	6 kg
Dimensions (mm)	136 φ x 120 (height)
Weight	0.3 kg







In-ceiling mount adapter

NVB-6020FMB



Туре	indoor
Application	3000 and 6000 series IP cameras (detailed compatibility list available as a file to download in section "Downloadable Files")
Material	plastic, steel
Color	white
Load Capacity	1.5 kg
Dimensions (mm)	233 φ x 80 (height)
Weight	0.7 kg









Ceiling mount cable managed bracket

NVB-6600CB



Туре	ceiling mount cable-managed bracket
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	white
Load Capacity	2 kg
Dimensions (mm)	130 φ x 220 (height)
Weight	0.55 kg









Wall mount cable managed bracket

NVB-6600WB



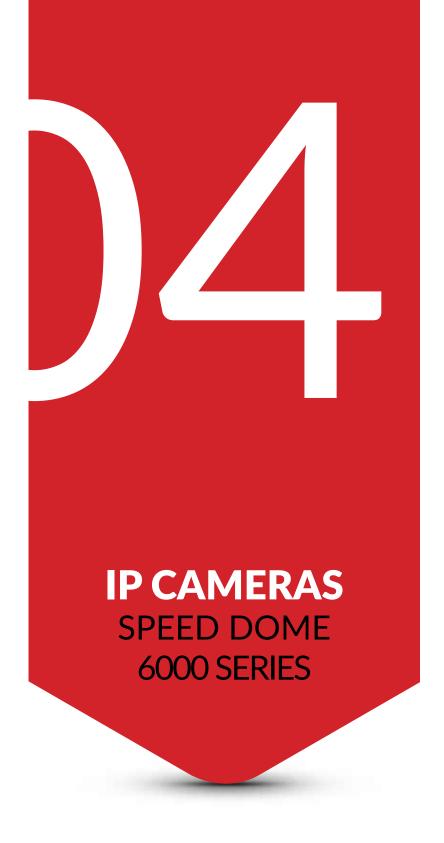


Туре	wall mount cable-managed bracket
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	white
Load Capacity	2 kg
Dimensions (mm)	130 (W) x 170 (H) x 195 (L)
Weight	0.57 kg











NOVUS

Speed Dome IP Camera with face recognition and intelligent object tracking

NVIP-2SD-6540/25/F





KEY FEATURES



















- •Resolution: 2 MPX
- •Lens: motorized varifocal, Al and AF function, optical zoom 25x, f=4.8 \sim 120 mm/F1.65 \sim 3.8
- •D/N function IR cut filter
- •Auto Tracking
- •Video content analysis based on Deep Learning
- •microSD card support
- •WDR with double scan sensor
- •Min. Illumination from 0.001 lx (0 lx, IR on)
- •IR LED, range up to 150 m (depends on current optical zoom value)

DIMENSIONS



173 mm



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SONY
Number of Effective Pixels	1920 (H) x 1080 (V)
Min. Illumination	0.005 lx/F1.65 - color mode • 0.001 lx/F1.65 - B/W mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto: 1 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Optical Zoom	25x
Lens Type	motorized, auto-iris function, f=4.8 \sim 120 mm/F1.65 \sim F3.8
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Schedule	yes
Visible Light Sensor	ves

Visible Light Schsol	yes
NETWORK	
Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 704 x 576, 704 x 480, 640 x 480 (VGA), 352 x 288 (CIF), 352 x 240
Frame Rate	30 fps for each resolution
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.265, MJPEG/-
Number of Simultaneous Conne	ctionsmax. 6
Bandwidth	50 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP, ICMP
ONVIF Protocol Support	Profile S







Speed Dome IP Camera with face recognition and intelligent object tracking NVIP-2SD-6540/25/F

Camera Configuration	from Internet Explorer browser • languages: Polish, English, and others
Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
PTZ	
Preset Commands	360 including 20 special (function) presets
Tours	8 (up to 16 presets per tour)
Patterns	4 (max. 360 commands or 180 s for each pattern)
Tilt/Pan Range	-5° ~ 90°/360° (continuous)
Pan/Tilt Speed	up to 80°/s (proportional to zoom)
Preset Speed	up to 80°/s
OTHER FUNCTIONS	
Privacy Zones	4
Motion Detection	yes
Video Content Analysis (VCA)	Auto Tracking linked to Video Content Analysis (VCA) functions, tamper, line cross, zone entrance, zone exit, cross counting, Scene Change, Video Blurred, Video Color Cast, zone entrance detection and object tracking, objects distinguishing, face recognition
Image Processing	180° image rotation, sharpening, mirror effect
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, object tracking
Restoring default settings	via web browser, via NMS IPTool software
IR LED	
LED Number	6
Range	up to 150 m (depends on current optical zoom value)
Smart IR	yes (hardware support)
Smart IR	<u> </u>
	<u> </u>
Smart IR INTERFACES	yes (hardware support)
Smart IR INTERFACES Network Interface Memory Card Slot	yes (hardware support) 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Smart IR INTERFACES Network Interface Memory Card Slot INSTALLATION PARAMETERS	yes (hardware support) 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 256GB
Smart IR INTERFACES Network Interface Memory Card Slot INSTALLATION PARAMETERS Dimensions (mm)	yes (hardware support) 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 256GB 173 (Φ) x 268 (H) with bracket: 173 (W) x 415 (H) x 300 (L)
Smart IR INTERFACES Network Interface Memory Card Slot INSTALLATION PARAMETERS Dimensions (mm) Weight	yes (hardware support) 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 256GB 173 (Φ) x 268 (H) with bracket: 173 (W) x 415 (H) x 300 (L) 2.1 kg with bracket: 2.8 kg
Smart IR INTERFACES Network Interface Memory Card Slot INSTALLATION PARAMETERS Dimensions (mm)	yes (hardware support) 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 256GB 173 (Φ) x 268 (H) with bracket: 173 (W) x 415 (H) x 300 (L)
Smart IR INTERFACES Network Interface Memory Card Slot INSTALLATION PARAMETERS Dimensions (mm) Weight Degree of Protection	yes (hardware support) 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 256GB 173 (Φ) x 268 (H) with bracket: 173 (W) x 415 (H) x 300 (L) 2.1 kg with bracket: 2.8 kg IP 66 (details in the user's manual) aluminium, white, in set: outdoor housing (integrated with the
Smart IR INTERFACES Network Interface Memory Card Slot INSTALLATION PARAMETERS Dimensions (mm) Weight Degree of Protection Enclosure	yes (hardware support) 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 256GB 173 (Φ) x 268 (H) with bracket: 173 (W) x 415 (H) x 300 (L) 2.1 kg with bracket: 2.8 kg IP 66 (details in the user's manual) aluminium, white, in set: outdoor housing (integrated with the camera), wall mount bracket
Smart IR INTERFACES Network Interface Memory Card Slot INSTALLATION PARAMETERS Dimensions (mm) Weight Degree of Protection Enclosure Power Supply	yes (hardware support) 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 256GB 173 (Φ) x 268 (H) with bracket: 173 (W) x 415 (H) x 300 (L) 2.1 kg with bracket: 2.8 kg IP 66 (details in the user's manual) aluminium, white, in set: outdoor housing (integrated with the camera), wall mount bracket PoE+, 12 VDC
Smart IR INTERFACES Network Interface Memory Card Slot INSTALLATION PARAMETERS Dimensions (mm) Weight Degree of Protection Enclosure Power Supply Surge protection	yes (hardware support) 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 256GB 173 (Φ) x 268 (H) with bracket: 173 (W) x 415 (H) x 300 (L) 2.1 kg with bracket: 2.8 kg IP 66 (details in the user's manual) aluminium, white, in set: outdoor housing (integrated with the camera), wall mount bracket PoE+, 12 VDC TVS 4000 V
Smart IR INTERFACES Network Interface Memory Card Slot INSTALLATION PARAMETERS Dimensions (mm) Weight Degree of Protection Enclosure Power Supply Surge protection Power Consumption	yes (hardware support) 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 256GB 173 (Φ) x 268 (H) with bracket: 173 (W) x 415 (H) x 300 (L) 2.1 kg with bracket: 2.8 kg IP 66 (details in the user's manual) aluminium, white, in set: outdoor housing (integrated with the camera), wall mount bracket PoE+, 12 VDC TVS 4000 V 6 W • 15.5 W (IR on) • 22 W (IR and heater on)







NOVUS

Speed Dome IP Camera with face recognition and intelligent object tracking

NVIP-4SD-6540/25/F-II





KEY FEATURES



















- •Resolution: 4 MPX
- •Lens: motorized varifocal, Al and AF function, optical zoom 25x, f=4.8 ~ 120 mm/F1.65 ~ 3.8
- •D/N function IR cut filter
- •Auto Tracking
- •Video content analysis based on Deep Learning
- •microSD card support
- •WDR with double scan sensor
- •Min. Illumination from 0.002 lx (0 lx, IR on)
- •IR LED, range up to 130 m (depends on current optical zoom value)

DIMENSIONS



173 mm



IMAGE

Image Sensor	4 MPX CMOS sensor 1/2.5" ON Semiconductor
Number of Effective Pixels	2592 (H) x 1944 (V)
Min. Illumination	0.01 lx/F1.65 - color mode • 0.002 lx/F1.65 - B/W mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto: 1 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Optical Zoom	25x
Lens Type	motorized, auto-iris function, f=4.8 \sim 120 mm/F1.65 \sim F3.8
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

NETWORK	
Stream Resolution	2560 x 1440 (QHD), 2048 x 1536 (QXGA), 1920 x 1080 (Full HD), 1280 x 960, 1280 x 720 (HD), 704 x 576, 640 x 480 (VGA), 352 x 288 (CIF)
Frame Rate	30 fps for each resolution
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.265, MJPEG/-
Number of Simultaneous Conne	ectionsmax. 10
Bandwidth	50 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP, ICMP
ONVIF Protocol Support	Profile S







Speed Dome IP Camera with face recognition and intelligent object tracking NVIP-4SD-6540/25/F-II

Camera Configuration	from Internet Explorer browser • languages: Polish, English, and others
Compatible Software	NMS, NVR-6000 Viewer, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
PTZ	
Preset Commands	360 including 20 special (function) presets
Tours	8 (up to 16 presets per tour)
Patterns	4 (max. 360 commands or 180 s for each pattern)
Tilt/Pan Range	-5° ~ 90°/360° (continuous)
Pan/Tilt Speed	up to 80°/s (proportional to zoom)
Preset Speed	up to 80°/s
OTHER FUNCTIONS	
Motion Detection	yes
Video Content Analysis (VCA)	Auto Tracking linked to Video Content Analysis (VCA) functions, tamper, line cross, zone entrance, zone exit, cross counting, Scene Change, Video Blurred, Video Color Cast, zone entrance detection and object tracking, objects distinguishing, comparing faces
Image Processing	180° image rotation, sharpening, mirror effect
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, object tracking $$
Restoring default settings	via web browser, via NMS IPTool software
IR LED	
LED Number	6
Range	up to 130 m (depends on current optical zoom value)
Smart IR	yes (hardware support)
INTERFACES	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INCTALLATION DADAMETERS	
INSTALLATION PARAMETERS Dimensions (mm)	173 (Φ) x 268 (H) with bracket: 173 (W) x 415 (H) x 300 (L)
Weight	2.1 kg with bracket: 2.8 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	aluminium, white, in set: outdoor housing (integrated with the
	camera), wall mount bracket
Power Supply	PoE+, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	6 W • 15.5 W (IR on) • 22 W (IR and heater on)
Operating Temperature	-30°C ~ 55°C
Humidity	max. 90%, relative (non-condensing)
Built-in Heater/Fan	yes/yes









Speed Dome IP Camera with face recognition and intelligent object tracking

NVIP-4SD-6550/30/F





KEY FEATURES



















- •Resolution: 4 MPX
- •Lens: motorized varifocal, Al and AF function, optical zoom 30x, f=4.7 ~ 141 mm/F1.5 ~ 4
- •D/N function IR cut filter
- •Auto Tracking
- •Video content analysis based on Deep Learning
- microSD card support
- $\bullet \mathsf{WDR} \mathsf{\ with\ double\ scan\ sensor}$
- •two-way audio
- \bullet Min. Illumination from 0.002 lx (0 lx, IR on)
- •IR LED, range up to 130 m (depends on current optical zoom value)

DIMENSIONS

IMAGE

Image Sensor	4 MPX CMOS sensor 1/2.5" ON Semiconductor
Number of Effective Pixels	2560 (H) x 1440 (V)
Min. Illumination	0.01 lx/F1.5 - color mode • 0.002 lx/F1.5 - B/W mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto: 1 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Optical Zoom	30x
Lens Type	motorized, auto-iris function, f=4.7 \sim 141 mm/F1.5 \sim F4
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Visible Light Sensor	yes

NETWORK

NETWORK	
Stream Resolution	2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for each resolution
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.265, MJPEG/G.711
Number of Simultaneous Conne	ectionsmax. 10
Bandwidth	70 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP, ICMP
ONVIF Protocol Support	Profile S
Camera Configuration	from Internet Explorer browser • languages: Polish, English, and others









209 mm Ø



315mm

Speed Dome IP Camera with face recognition and intelligent object tracking NVIP-4SD-6550/30/F

Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
PTZ	
Preset Commands	360 including 20 special (function) presets
Tours	8 (up to 16 presets per tour)
Patterns	4 (max. 360 commands or 180 s for each pattern)
Tilt/Pan Range	-3° ~ 90°/360° (continuous)
Pan/Tilt Speed	up to 80°/s (proportional to zoom)
Preset Speed	up to 150°/s
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Video Content Analysis (VCA)	Auto Tracking linked to Video Content Analysis (VCA) functions, tamper, line cross, zone entrance, zone exit, cross counting, Scene Change, Video Blurred, Video Color Cast, zone entrance detection and object tracking, objects distinguishing, comparing faces
Image Processing	180° image rotation, sharpening, mirror effect
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, object tracking
Restoring default settings	via web browser, using reset button, via NMS IPTool software
IR LED	
LED Number	5
Range	up to 130 m (depends on current optical zoom value)
Smart IR	yes (hardware support)
INTERFACES	
Audio Input/Output	1 x Jack (3.5 mm)/1 x Jack (3.5 mm)
Alarm Input/Output	1 (NO/NC)/1 relay type
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
INSTALLATION PARAMETERS	
Dimensions (mm)	209 (Φ) x 328 (H) with bracket: 209 (W) x 500 (H) x 315 (L)
Weight	3 kg with bracket: 3.7 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	aluminium, white, in set: outdoor housing (integrated with the camera), wall mount bracket
Power Supply	PoE+, 24 VDC/24 VAC
Surge protection	TVS 6000 V
Power Consumption	13 W • 20 W (IR illuminator on) • 30 W (IR and heater on)
Surge protection	TVS 6000 V
Operating Temperature	-30°C ~ 60°C
Humidity	max. 90%, relative (non-condensing)
Built-in Heater/Fan	yes/yes







Ceiling mount cable managed bracket

NVB-SD6000CB



Туре	ceiling mount cable-managed bracket
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	white
Load Capacity	6 kg
Dimensions (mm)	258 (length) x 116 (diameter)
Weight	0.6 kg









Corner mount adapter

NVB-6000CA



corner mount adapter
selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
steel
white
8 kg
215 (W) x 215 (H) x 121 (D)
2 kg





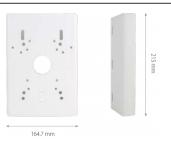




Pole mount adapter

NVB-6000PA





Туре	pole mount adapter
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	steel
Color	white
Load Capacity	8 kg
Dimensions (mm)	164 (W) x 215 (H) ϕ range = 80 \sim 140
Weight	1 kg



In-ceiling mount adapter

NVB-6030FMB



Туре	indoor
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	plastic, steel
Color	white
Load Capacity	1.5 kg
Dimensions (mm)	233 φ x 130 (height)
Weight	0.8 kg

The camera shown in the photo is not included with the adapter, it must be purchased separately











IP Recorder

NVR-6204-H1





KEY FEATURES





















- •Video and audio channels: 4
- •Supported protocols: ONVIF
- •Recording speed up to 120 fps at 2592 x 1944
- •Supports resolution up to 2592 x 1944
- Recorded stream size: 32 Mb/s in total from all cameras
- •Internal HDDs mount: 1
- •Monitor outputs: 2 (HDMI, VGA)
- Intelligent image analysis

DIMENSIONS





VIDEO

IP Cameras	up to 4 channels at 2592 x 1944 resolution (video + audio)
Maximum Supported Camera Resolution	2592 x 1944
Compression	H.264, H.264+, H.265
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI, 1 x VGA (up to 2 monitors simultaneously)
Dualstreaming Support	yes
AUDIO	

AUDIO

Audio Input/Output - / 1 x HDMI

RECORDING

RECORDING	
Stream Size	32 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, motion detection
Prealarm/Postalarm	up to 5 s/up to 600 s

DISPLAY

Display Speed 120 fps (4 x 30 fps)

PLAYBACK

Playback Speed 120 fps (4 x 30 fps) Recorded Data Search by date/time, events

6 TB

BACKUP

Total Internal Capacity

Backup Methods	USB port (HDD or Flash memory), network	
Backup File Format	AVI, RPAS (player included)	
STORAGE		
Internal Storage	available mount: 1 x HDD 3.5" 6 TB SATA	

ALARM	
Camera Alarm Input/Output	supports camera's alarm input/output
Motion Detection	supports camera's motion detection
System Reaction to Alarm Events	buzzer, recording activation, PTZ, e-mail with atatchment

INTELLIGENT IMAGE ANALYSIS

Supported Functions

Exception, Scene Change, Video Blurred, Video Color Cast, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Face Detection, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, Analysis of Recognized Number Plate Numbers (LPR)









IP Recorder NVR-6204-H1

NETWORK

Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, SMTP, P2P
ONVIF Protocol Support	Profile S (ONVIF 2.2 or higher)
PC/MAC Software	NMS, Internet Explorer, Firefox, Chrome, Opera, Safari, N Control 6000, Edge/Safari, N Control 6000

Mobile applications SuperLive Plus (iPhone, Android)

Number of Simultaneous Connectionsup to 5 clients, up to 8 main streams or 16 substreams or 4 playback

Bandwidth 32 Mb/s in total to all client workstations

streams in total

PTZ

PTZ Functions pan/tilt/zoom, preset commands

AUXILIARY INTERFACES

USB Ports 2 x USB 2.0

OPERATING SYSTEM

Operating System	Linux
Operation Mode	triplex
OSD	languages: Polish, English, others
Control	PC mouse (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering, MAC filtering

INSTALLATION PARAMETERS

Dimensions (mm)	255 (W) x 42 (H) x 233 (D)
Weight	0.675 kg (without HDD)
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)
Power Consumption	18 W (with 1 HDD)
Operating Temperature	-10°C ~ 50°C

In order to take full advantage of the recorder capabilities, it is recommended to use NOVUS IP 6000 series cameras. The availability of individual functions depends on the model of cameras used as well as the software version of the recorder and cameras. Detailed data can be found in the compatibility table available in the DOWNLOADS tab







IP Recorder

NVR-6208-H1





KEY FEATURES



















- •Video and audio channels: 8
- •Supported protocols: ONVIF
- •Recording speed up to 240 fps at 2592 x 1944
- •Supports resolution up to 2592 x 1944
- •Recorded stream size: 56 Mb/s in total from all
- •Internal HDDs mount: 1
- •Monitor outputs: 2 (HDMI, VGA)
- •Intelligent image analysis

DIMENSIONS



IP Cameras	up to 8 channels at 2592 x 1944 resolution (video + audio)
Maximum Supported Camera Resolution	2592 x 1944
Compression	H.264, H.264+, H.265
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI, 1 x VGA (up to 2 monitors simultaneously)
Dualstreaming Support	yes
AUDIO	
Audio Input/Output	- / 1 x HDMI
RECORDING	
Stream Size	56 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, motion detection, intelligent image analysis functions
Prealarm/Postalarm	up to 5 s/up to 600 s
DISPLAY	
Display Speed	240 fps (8 x 30 fps)
PLAYBACK	
Playback Speed	249 fps (8 x 30 fps)
Recorded Data Search	by date/time, events
BACKUP	
Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	AVI, RPAS (player included)

STORAGE

Internal Storage	available mount: 1 x HDD 3.5" 6 TB SATA
Total Internal Capacity	6 TB

ALARM

Camera Alarm Input/Output	supports camera's alarm input/output
Motion Detection	supports camera's motion detection
System Reaction to Alarm Events	buzzer, recording activation, PTZ, e-mail with atatchment









IP Recorder NVR-6208-H1

Supported Functions	Exception, Scene Change, Video Blurred, Video Color Cast, Tripwire,
	Zone entrance, Abandoned Object, Object Disappearance, Face
	Detection, Perimeter Intrusion Detection by pedestrian or vehicle,
	Line Cross Detection by nedestrian or vehicle, Analysis of Recognized

	Line Cross Detection by pedestrian or vehicle, Analysis of Recognized Number Plate Numbers (LPR)
NETWORK	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, SMTP, P2P
ONVIF Protocol Support	Profile S (ONVIF 2.2 or higher)
PC/MAC Software	NMS, Internet Explorer, Firefox, Chrome, Opera, N Control 6000, Edge/Safari, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
Number of Simultaneous Connection	onsup to 5 clients, up to 12 main streams or 32 substreams or 8 playback streams in total
Bandwidth	56 Mb/s in total to all client workstations
PTZ	
PTZ Functions	pan/tilt/zoom, preset commands
AUXILIARY INTERFACES	
USB Ports	2 x USB 2.0
OPERATING SYSTEM	
Operating System	Linux
Operation Mode	triplex
OSD	languages: Polish, English, others
Control	PC mouse (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering, MAC filtering
INSTALLATION PARAMETERS	;
Dimensions (mm)	255 (W) x 42 (H) x 233 (D)
Weight	0.65 kg (without HDD)
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)
Power Consumption	18 W (with 1 HDD)

In order to take full advantage of the recorder capabilities, it is recommended to use NOVUS IP 6000 series cameras. The availability of individual functions depends on the model of cameras used as well as the software version of the recorder and cameras. Detailed data can be found in the compatibility table available in the DOWNLOADS tab

-10°C ~ 50°C

The list of compatible drives is available in the DOWNLOADS tab.

Operating Temperature







IP Recorder

NVR-6408-H1/F





KEY FEATURES



















- •Video and audio channels: 8
- •Supported protocols: ONVIF, RTSP
- •Recording speed up to 240 fps at 3840 x 2160
- •Supports resolution up to 3840 x 2160
- Recorded stream size: 80 Mb/s in total from all
- •Internal HDDs mount: 1
- •Monitor outputs: 2 (HDMI, VGA)
- •Face recognition

DIMENSIONS



IP Cameras	up to 8 channels at 3840 x 2160 resolution (video + audio)
Compression	H.264, H.264+, H.265
Monitor Output	main (split screen, full screen, sequence): 1 x VGA, 1 x HDMI (4K UltraHD) (up to 2 monitors simultaneously)
Dualstreaming Support	yes
Fisheye Support	yes, 3000/6000 IP series cameras
AUDIO	
Audio Input/Output	1 x line-in (RCA) / 1 x HDMI, 1 x line-out (RCA)
RECORDING	
Stream Size	80 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, alarm input, motion detection, intelligent image analysis functions
Prealarm/Postalarm	up to 5 s/up to 600 s
DISPLAY	
Display Speed	240 fps (8 x 30 fps)
PLAYBACK	
Playback Speed	240 fps (8 x 30 fps)
Recorded Data Search	by date/time, events, motion in a defined area, related to face recognition
BACKUP	
Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	AVI, RPAS (player included)
STORAGE	

Total Internal Capacity	10 TB	
ALARM		
Internal Alarm Input/Output	8/4 relay type	
Camera Alarm Input/Output	supports camera's alarm input/output	
Motion Detection	supports camera's motion detection	

atatchment

available mount: 1 x HDD 3.5" 10 TB SATA

INTELLIGENT IMAGE ANALYSIS

System Reaction to Alarm Events

Internal Storage





buzzer, alarm output activation, recording activation, PTZ, e-mail with





IP Recorder NVR-6408-H1/F

Supported Functions	Exception, Scene Change, Video Blurred, Video Color Cast, Tripwire,
	Zone entrance, Abandoned Object, Object Disappearance, Face
	Detection, Face Recognition, Perimeter Intrusion Detection by
	pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle,

	pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, Analysis of Recognized Number Plate Numbers (LPR)
NETWORK	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, SMTP, P2P
ONVIF Protocol Support	Profile S (ONVIF 2.2 or higher)
PC/MAC Software	NMS, Internet Explorer, Firefox, Chrome, Opera, Safari, N Control 6000, Edge/Safari, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
Number of Simultaneous Conne	ectionsup to 5 clients, up to 12 main streams or 32 substreams or 8 playback streams in total
Bandwidth	80 Mb/s in total to all client workstations
PTZ	
PTZ Functions	pan/tilt/zoom, preset commands
AUXILIARY INTERFACES	
USB Ports	1 x USB 2.0 1 x USB 3.0
OPERATING SYSTEM	
Operating System	Linux
Operation Mode	triplex
OSD	languages: Polish, English, others
Control	PC mouse (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering, MAC filtering
INSTALLATION PARAMETE	ERS
Dimensions (mm)	300 (W) x 44 (H) x 248 (D)
Weight	0.65 kg (without HDD)
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)
Power Consumption	18 W (with 1 HDD)
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In order to take full advantage of the recorder capabilities, it is recommended to use NOVUS IP 6000 series cameras. The availability of individual functions depends on the model of cameras used as well as the software version of the recorder and cameras. Detailed data can be found in the compatibility table available in the DOWNLOADS tab

-10°C ~ 50°C

The list of compatible drives is available in the DOWNLOADS tab.

Operating Temperature







IP Recorder

NVR-6316-H1-II





KEY FEATURES













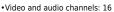












- •Supported protocols: ONVIF, RTSP
- •Recording speed up to 480 fps at 3840 x 2160
- •Supports resolution up to 3840 x 2160
- •Recorded stream size: 112 Mb/s in total from all cameras
- •Internal HDDs mount: 1
- •Monitor outputs: 1 (HDMI (4K UltraHD), VGA)
- •Intelligent image analysis

DIMENSIONS



VIDEO	
IP Cameras	up to 16 channels at 3840 x 2160 resolution (video + audio)
Maximum Supported Camera Resolution	3840 x 2160
Compression	H.264, H.264+, H.265
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI, 1 x VGA (up to 1 monitor simultaneously)
Dualstreaming Support	yes
AUDIO	
Audio Input/Output	1 x line-in (RCA) / 1 x HDMI, 1 x line-out (RCA)
RECORDING	
Stream Size	112 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, motion detection, intelligent image analysis functions
Prealarm/Postalarm	up to 5 s/up to 600 s

DISPLAY

Display Speed 480 fps (16 x 30 fps)

PLAYBACK

Playback Speed 240 fps (8 x 16 fps) Recorded Data Search by date/time, events

BACKUP

Backup Methods USB port (HDD or Flash memory), network Backup File Format AVI, RPAS (player included)

12 TB

STORAGE

Internal Storage

Total Internal Capacity

, ,	
ALARM	
Camera Alarm Input/Output	supports camera's alarm input/output
Motion Detection	supports camera's motion detection

available mount: 1 x HDD 3.5" 12 TB SATA

INTELLIGENT IMAGE ANALYSIS

System Reaction to Alarm Events





buzzer, recording activation, PTZ, e-mail with atatchment





IP Recorder NVR-6316-H1-II

Supported Functions	Exception, Scene Change, Video Blurred, Video Color Cast, Tripwire,
	Zone entrance, Abandoned Object, Object Disappearance, Face
	Detection, Perimeter Intrusion Detection by pedestrian or vehicle,
	Line Cross Detection by pedestrian or vehicle. Analysis of Recognized

	Line Cross Detection by pedestrian or vehicle, Analysis of Recognized Number Plate Numbers (LPR)
NETWORK	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, SMTP, P2P $$
ONVIF Protocol Support	Profile S (ONVIF 2.2 or higher)
PC/MAC Software	NMS, Internet Explorer, Firefox, Chrome, Opera, N Control 6000, Edge/Safari, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
Number of Simultaneous Connectio	nsup to 5 clients, up to 20 main streams or 64 substreams or 16 playback streams in total
Bandwidth	112 Mb/s in total to all client workstations
PTZ	
PTZ Functions	pan/tilt/zoom, preset commands
AUXILIARY INTERFACES	
USB Ports	2 x USB 2.0
OPERATING SYSTEM	
Operating System	Linux
Operation Mode	triplex
OSD	languages: Polish, English, others
Control	PC mouse and IR remote controller (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering, MAC filtering
INSTALLATION PARAMETERS	
Dimensions (mm)	300 (W) x 52 (H) x 248 (D)
Weight	1.5 kg (without HDD)
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)

In order to take full advantage of the recorder capabilities, it is recommended to use NOVUS IP 6000 series cameras. The availability of individual functions depends on the model of cameras used as well as the software version of the recorder and cameras. Detailed data can be found in the compatibility table available in the DOWNLOADS tab

18 W (with 1 HDD) -10°C ~ 50°C

The list of compatible drives is available in the DOWNLOADS tab.

Power Consumption

Operating Temperature







IP Recorder

NVR-6316-H2-II





KEY FEATURES





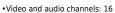












- •Supported protocols: ONVIF, RTSP
- •Recording speed up to 480 fps at 3840 x 2160
- •Supports resolution up to 3840 x 2160
- Recorded stream size: 112 Mb/s in total from all cameras
- •Internal HDDs mount: 2
- •Monitor outputs: 1 (HDMI (4K UltraHD), VGA)
- RACK mount
- •Intelligent image analysis

DIMENSIONS



VIDEO	
IP Cameras	up to 16 channels at 3840 x 2160 resolution (video + audio)
Maximum Supported Camera Resolution	3840 x 2160
Compression	H.264, H.264+, H.265
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI, 1 x VGA (up to 1 monitor simultaneously)
Dualstreaming Support	yes
AUDIO	
Audio Input/Output	- / 1 x line-out (RCA)
RECORDING	
Stream Size	112 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, motion detection
Prealarm/Postalarm	up to 5 s/up to 600 s
DISPLAY	

Display Speed 480 fps (16 x 30 fps)

PLAYBACK

Playback Speed	480 fps (16 x 30 fps)
Recorded Data Search	by date/time, events

20 TB

BACKUP

Backup Methods

Total Internal Capacity

Backup File Format	AVI, RPAS (player included)	
STORAGE		
Internal Storage	available mount: 2 x HDD 3.5" 10 TB SATA	

USB port (HDD or Flash memory), network

ΔΙΔRΜ

ALARIYI	
Internal Alarm Input/Output	4/1 relay type
Camera Alarm Input/Output	supports camera's alarm input/output
Motion Detection	supports camera's motion detection
System Reaction to Alarm Events	buzzer, alarm output activation, recording activation, PTZ, e-mail with atatchment









IP Recorder NVR-6316-H2-II

Supported Functions	Exception, Scene Change, Video Blurred, Video Color Cast, Tripwire,
	Zone entrance, Abandoned Object, Object Disappearance, Face
	Detection, Perimeter Intrusion Detection by pedestrian or vehicle,
	Line Cross Detection by pedestrian or vehicle. Analysis of Recognized

	Detection, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, Analysis of Recognized Number Plate Numbers (LPR)	
NETWORK		
Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s	
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, SMTP, P2P $$	
ONVIF Protocol Support	Profile S (ONVIF 2.2 or higher)	
PC/MAC Software	NMS, Internet Explorer, Firefox, Chrome, Opera, N Control 6000, Edge/Safari, N Control 6000	
Mobile applications	SuperLive Plus (iPhone, Android)	
Number of Simultaneous Connecti	onsup to 5 clients, up to 22 main streams or 64 substreams or 16 playback streams in total	
Bandwidth	112 Mb/s in total to all client workstations	
PTZ		
PTZ Functions	pan/tilt/zoom, preset commands	
AUXILIARY INTERFACES		
USB Ports	2 x USB 2.0	
OPERATING SYSTEM		
Operating System	Linux	
Operation Mode	triplex	
OSD	languages: Polish, English, others	
Control	PC mouse and IR remote controller (in-set included), network	
System Diagnostic	automatic control of: HDDs, network, camera connection loss	
Security	password protection, IP filtering, MAC filtering	
INSTALLATION PARAMETERS	5	
Dimensions (mm)	380 (W) x 52 (H) x 268 (D)	
Weight	1.52 kg (without HDD)	
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)	
Power Consumption	30 W (with 2 HDDs)	
Operating Temperature	-10°C ~ 50°C	

In order to take full advantage of the recorder capabilities, it is recommended to use NOVUS IP 6000 series cameras. The availability of individual functions depends on the model of cameras used as well as the software version of the recorder and cameras. Detailed data can be found in the compatibility table available in the DOWNLOADS tab

 $\label{thm:compatible} \textit{The list of compatible drives is available in the DOWNLOADS tab.}$

1U

RACK Mount 19"







IP Recorder

NVR-6232-H2/F





KEY FEATURES









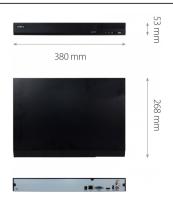






- •Video and audio channels: 32, with face recognition :
- •Supported protocols: ONVIF, RTSP
- •Recording speed up to 800 fps at 3840 x 2160
- •Recorded stream size: 192 Mb/s in total from all cameras
- •Internal HDDs mount: 2
- •Monitor outputs: 2 (HDMI (4K UltraHD), VGA)
- •Face recognition (in 16 chanels mode)

DIMENSIONS



VIDEO

IP Cameras	up to 32 channels at 3840×2160 resolution (video + audio) • up to 16 channels at 3840×2160 resolution with face recognition on (video + audio)	
Maximum Supported Camera Resolution	3840 x 2160	
Compression	H.264, H.265, H.265+, H.265 Smart	
Monitor Output	main (split screen, full screen, sequence): 1 x VGA, 1 x HDMI (4K UltraHD) (up to 2 monitors simultaneously)	
Dualstreaming Support	yes	
Fisheye Support	yes, 6000 IP series cameras	
AUDIO		
Audio Input/Output	1 x line-in (RCA) / 1 x line-out (RCA), 1 x HDMI	
RECORDING		
Recording Speed	800 fps (32 x 25 fps for 3840 x 2160) • 400 fps (16 x 25 fps for 3840 x 2160) with face recognition on	
Stream Size	192 Mb/s in total from all cameras	
Recording Mode	time-lapse, triggered by: manual, alarm input, motion detection	
Prealarm/Postalarm	up to 5 s/up to 600 s	
DISPLAY		
Display Speed	800 fps (32 x 25 fps) • 400 kl/s (32 x 25 kl/s) with face recognition on	
PLAYBACK		
Playback Speed	400 fps (16 x 25 fps)	
Recorded Data Search	by date/time, events, motion in a defined area, related to face recognition	
BACKUP		
Backup Methods	USB port (HDD or Flash memory), network	
Backup File Format	AVI, RPAS (player included)	
STORAGE		
Internal Storage	available mount: 2 x HDD 3.5" 10 TB SATA	
Total Internal Capacity	20 TB	
ALARM		
Internal Alarm Input/Output	8/4 relay type	
Camera Alarm Input/Output	supports IP camera's alarm input/output	
Motion Detection	supports camera's motion detection	









IP Recorder NVR-6232-H2/F

System Reaction to Alarm Events buzzer, e-mail, recording activation, PTZ

INTELL	IGENT	IMAGE	ANAL	YSIS
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Supported Functions	Exception, Scene Change, Video Blurred, Video Color Cast, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Face Recognition, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, Analysis of Recognized
	Number Plate Numbers (LPR)

NETWORK

Network Interface 1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s	
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, SMTP, P2P $$
ONVIF Protocol Support	Profile S (ONVIF 2.2 or higher)
PC/MAC Software	NMS, Internet Explorer, Firefox, Chrome, Opera, N Control 6000, Edge/Safari, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
Number of Simultaneous Conne	ctionsup to 20 clients, up to 36 main streams or 128 substreams or 16 playback streams in total
Bandwidth	192 Mb/s in total to all client workstations
DT7	

PTZ

PTZ F	unctions	pan/tilt/zoom,	preset commands

AUXILIARY INTERFACES

USB Ports	1 IICD 2 0 1 IICD 2 0
USD PUILS	1 x USB 2.0, 1 x USB 3.0,

OPERATING SYSTEM

Operating System	Linux
Operation Mode	triplex
OSD	languages: Polish, English, others
Control	PC mouse and IR remote controller (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering, MAC filtering

INSTALLATION PARAMETERS

Dimensions (mm)	380 (W) x 53 (H) x 268 (D)
Weight	1.5 kg (without HDD)
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)
Power Consumption	40 W (with 2 HDDs)
Operating Temperature	-10°C ~ 50°C
RACK Mount 19"	10

In order to take full advantage of the recorder capabilities it is recommended to use NOVUS IP 6000 series cameras.

The availability of individual functions (including face recognition) depends on the model of cameras used as well as the software version of the recorder and cameras.

In order to create face recognition system please deploy 6000 series cameras with "F" in the model name only.

Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES tab.







IP Recorder

NVR-6332-H2/F





KEY FEATURES

























- •Video and audio channels: 32
- •Supported protocols: ONVIF, RTSP
- •Recording speed up to 960 fps at 3840 x 2160
- •Recorded stream size: 256 Mb/s in total from all cameras
- •Internal HDDs mount: 2
- •Monitor outputs: 2 (HDMI (4K UltraHD), VGA)
- •RACK mount
- •Face recognition

DIMENSIONS



VIDEO

IP Cameras	up to 32 channels at 3840 x 2160 resolution (video + audio)	
Maximum Supported Camera Resolution	3840 x 2160	
Compression	H.264, H.264+, H.265, H.265+, H.265 Smart	
Monitor Output	main (split screen, full screen, sequence): $1 \times VGA$, $1 \times HDMI$ (4K UltraHD) (up to 2 monitors simultaneously) • spot: $1 \times VGA$ (FullHD) interchangeably to main output	
Dualstreaming Support	yes	
Fisheye Support	yes, 3000/6000 IP series cameras	
AUDIO		
Audio Input/Output	1 x line-in (RCA) / 1 x line-out (RCA), 1 x HDMI	
RECORDING		
Stream Size	256 Mb/s in total from all cameras	
Recording Mode	time-lapse, triggered by: manual, alarm input, motion detection	
Prealarm/Postalarm	up to 5 s/up to 600 s	
DISPLAY		
Display Speed	960 fps (32 x 30 fps)	
PLAYBACK		
Playback Speed	480 fps (16 x 30 fps)	
Recorded Data Search	by date/time, events, motion in a defined area, related to face recognition	
BACKUP		
Backup Methods	USB port (HDD or Flash memory), network	
Backup File Format	AVI, RPAS (player included)	
STORAGE		
Internal Storage	available mount: 2 x HDD 3.5" 14 TB SATA	
Total Internal Capacity	28 TB	
ALARM		
Camera Alarm Input/Output	supports camera's alarm input/output	
Motion Detection	supports camera's motion detection	
Custom Desction to Alarma Frants	human a mail recording activation DT7	





buzzer, e-mail, recording activation, PTZ



System Reaction to Alarm Events



IP Recorder NVR-6332-H2/F

Supported Functions	Exception, Scene Change, Video Blurred, Video Color Cast, Tripwire,
	Zone entrance, Abandoned Object, Object Disappearance, Face
	Recognition, Perimeter Intrusion Detection by pedestrian or vehicle,
	Line Cross Detection by pedestrian or vehicle, Analysis of Recognized
	Number Plate Numbers (LPR)

NETWORK

NETWORK	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, SMTP, P2P $$
ONVIF Protocol Support	Profile S (ONVIF 2.2 or higher)
PC/MAC Software	NMS, Internet Explorer, Firefox, Chrome, Opera, N Control 6000, Edge/Safari, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
Number of Simultaneous Connecti	ionsup to 10 clients, up to 36 main streams or 128 substreams or 16 playback streams in total
Bandwidth	256 Mb/s in total to all client workstations
PTZ	
PTZ Functions	pan/tilt/zoom, preset commands
AUXILIARY INTERFACES	
USB Ports	1 x USB 2.0 1 x USB 3.0
OPERATING SYSTEM	

Operating System	Linux
Operation Mode	triplex
OSD	languages: Polish, English, others
Control	PC mouse and IR remote controller (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering, MAC filtering

INSTALLATION PARAMETERS

Dimensions (mm)	380 (W) x 53 (H) x 268 (D)
Weight	1.5 kg (without HDD)
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)
Power Consumption	40 W (with 2 HDDs)
Operating Temperature	-10°C ~ 50°C
RACK Mount 19"	10

In order to take full advantage of the recorder capabilities, it is recommended to use NOVUS IP 6000 series cameras. The availability of individual functions depends on the model of cameras used as well as the software version of the recorder and cameras. Detailed data can be found in the compatibility table available in the DOWNLOADS tab

 $\label{thm:compatible} \textit{The list of compatible drives is available in the DOWNLOADS tab.}$







IP Recorder

NVR-6332-H8/FR





KEY FEATURES





















- •Video and audio channels: 32
- •Supported protocols: ONVIF, RTSP
- •Recording speed up to 960 fps at 3840 x 2160
- •Supports resolution up to 3840 x 2160
- Recorded stream size: 256 Mb/s in total from all cameras
- •Internal HDDs mount: 8
- •Monitor outputs: 3 (HDMI (4K UltraHD), HDMI, VGA)
- Face recognition
- •RAID protects recordings

DIMENSIONS



VIDEO

IP Cameras	up to 32 channels at 3840 x 2160 resolution (video + audio)
Maximum Supported Camera Resolution	3840 x 2160
Compression	H.264, H.264+, H.265, H.265+, H.265 Smart
Monitor Output	main (split screen, full screen, sequence): 1 x VGA, 1 x HDMI (4K UltraHD) $ullet$ spot: 1 x HDMI (FullHD)
Dualstreaming Support	yes
Fisheye Support	yes, 3000/6000 IP series cameras
AUDIO	
Audio Input/Output	1 x line-in (RCA) / 1 x HDMI, 1 x line-out (RCA)
RECORDING	
Stream Size	256 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, alarm input, motion detection, intelligent image analysis functions
Prealarm/Postalarm	up to 5 s/up to 600 s
DISPLAY	
Display Speed	960 fps (32 x 30 fps)
PLAYBACK	
·	400 fns (16 v 20 fns)
Playback Speed	480 fps (16 x 30 fps)
Playback Speed Recorded Data Search	by date/time, events, motion in a defined area, related to face recognition
	by date/time, events, motion in a defined area, related to face
Recorded Data Search	by date/time, events, motion in a defined area, related to face
Recorded Data Search BACKUP	by date/time, events, motion in a defined area, related to face recognition
Recorded Data Search BACKUP Backup Methods Backup File Format	by date/time, events, motion in a defined area, related to face recognition USB port (HDD or Flash memory), network
Recorded Data Search BACKUP Backup Methods	by date/time, events, motion in a defined area, related to face recognition USB port (HDD or Flash memory), network
BACKUP Backup Methods Backup File Format STORAGE	by date/time, events, motion in a defined area, related to face recognition USB port (HDD or Flash memory), network AVI, RPAS (player included)
Recorded Data Search BACKUP Backup Methods Backup File Format STORAGE Internal Storage	by date/time, events, motion in a defined area, related to face recognition USB port (HDD or Flash memory), network AVI, RPAS (player included) available mount: 8 x HDD 3.5" 14 TB SATA
Recorded Data Search BACKUP Backup Methods Backup File Format STORAGE Internal Storage Total Internal Capacity RAID Mode	by date/time, events, motion in a defined area, related to face recognition USB port (HDD or Flash memory), network AVI, RPAS (player included) available mount: 8 x HDD 3.5" 14 TB SATA 112 TB
Recorded Data Search BACKUP Backup Methods Backup File Format STORAGE Internal Storage Total Internal Capacity RAID Mode ALARM	by date/time, events, motion in a defined area, related to face recognition USB port (HDD or Flash memory), network AVI, RPAS (player included) available mount: 8 x HDD 3.5" 14 TB SATA 112 TB RAIDO, RAID1, RAID5, RAID6
Recorded Data Search BACKUP Backup Methods Backup File Format STORAGE Internal Storage Total Internal Capacity RAID Mode ALARM Internal Alarm Input/Output	by date/time, events, motion in a defined area, related to face recognition USB port (HDD or Flash memory), network AVI, RPAS (player included) available mount: 8 x HDD 3.5" 14 TB SATA 112 TB RAID0, RAID1, RAID5, RAID6
Recorded Data Search BACKUP Backup Methods Backup File Format STORAGE Internal Storage Total Internal Capacity RAID Mode ALARM Internal Alarm Input/Output Camera Alarm Input/Output	by date/time, events, motion in a defined area, related to face recognition USB port (HDD or Flash memory), network AVI, RPAS (player included) available mount: 8 x HDD 3.5" 14 TB SATA 112 TB RAIDO, RAID1, RAID5, RAID6 8/4 relay type supports camera's alarm input/output
Recorded Data Search BACKUP Backup Methods Backup File Format STORAGE Internal Storage Total Internal Capacity RAID Mode ALARM Internal Alarm Input/Output	by date/time, events, motion in a defined area, related to face recognition USB port (HDD or Flash memory), network AVI, RPAS (player included) available mount: 8 x HDD 3.5" 14 TB SATA 112 TB RAID0, RAID1, RAID5, RAID6









IP Recorder NVR-6332-H8/FR

INTELLIGENT	IMAGE	ANALYSIS	
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Supported Functions	Exception, Scene Change, Video Blurred, Video Color Cast, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Face Recognition, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, Analysis of Recognized Number Plate Numbers (LPR)
NETWORK	
Network Interface	2 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, IEEE 802.1X, SMTP, P2P
ONVIF Protocol Support	Profile S (ONVIF 2.2 or higher)
PC/MAC Software	NMS, Internet Explorer, Firefox, Chrome, Opera, N Control 6000, Edge/Safari, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
Number of Simultaneous Connect	tionsup to 10 clients, up to 36 main streams or 128 substreams or 16 playback streams in total
Bandwidth	256 Mb/s in total to all client workstations
PTZ	
PTZ Functions	pan/tilt/zoom, preset commands
AUXILIARY INTERFACES	
USB Ports	2 x USB 2.0 1 x USB 3.0
OPERATING SYSTEM	
Operating System	Linux
OSD	languages: Polish, English, others
Control	PC mouse and IR remote controller (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering, MAC filtering
INSTALLATION PARAMETER	es ·
Dimensions (mm)	430 (W) x 90 (H) x 453 (D)
Weight	6 kg (without HDD)
Power Supply	100 ~ 240 VAC
D. C.	175 W (with 8 HDDs)
Power Consumption	
Operating Temperature	-10°C ~ 50°C

In order to take full advantage of the recorder capabilities, it is recommended to use NOVUS IP 6000 series cameras. The availability of individual functions depends on the model of cameras used as well as the software version of the recorder and cameras. Detailed data can be found in the compatibility table available in the DOWNLOADS tab







IP Recorder

NVR-6432-H2/F





KEY FEATURES

















- •Supported protocols: ONVIF, RTSP
- •Recording speed up to 960 fps at 4000 x 3000
- Recorded stream size: 192 Mb/s in total from all cameras
- •Internal HDDs mount: 2
- •Monitor outputs: 2 (HDMI (4K UltraHD), VGA)
- RACK mount
- Face recognition

DIMENSIONS



IP Cameras	up to 32 channels at 4000 x 3000 resolution (video + audio)
Maximum Supported Camera Resolution	4000 x 3000
Compression	H.264, H.265, H.265+, H.265 Smart
Monitor Output	main (split screen, full screen, sequence): $1 \times VGA$, $1 \times HDMI$ (4K UltraHD) (up to 2 monitors simultaneously) • spot: $1 \times HDMI$ (FullHD)
Dualstreaming Support	yes
AUDIO	
Audio Input/Output	1 x line-in (RCA) / 1 x line-out (RCA), 1 x HDMI
RECORDING	
Stream Size	192 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, alarm input, motion detection
Prealarm/Postalarm	up to 5 s/up to 600 s
DISPLAY	

960 fps (32 x 30 fps) Display Speed

PLAYBACK

Playback Speed	480 fps (16 x 30 fps)
Recorded Data Search	by date/time, events, motion in a defined area, related to face recognition

BACKUP

Backup Methods	USB port (HDD or Flash memory), network	
Backup File Format	AVI, RPAS (player included)	
STORAGE		

Internal Storage

Internal Storage	available mount: 2 x HDD 3.5" 10 TB SATA
Total Internal Capacity	20 TB
ALARM	
Internal Alarm Input/Output	8/4 relay type

Camera Alarm Input/Output supports IP camera's alarm input/output Motion Detection supports camera's motion detection System Reaction to Alarm Events buzzer, recording activation, PTZ, e-mail with atatchment, Full Screen









IP Recorder NVR-6432-H2/F

Supported Functions	Exception, Scene Change, Video Blurred, Video Color Cast, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Face
	Recognition, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, Analysis of Recognized Number Plate Numbers (LPR)

	Line Cross Detection by pedestrian or vehicle, Analysis of Recognized Number Plate Numbers (LPR)
NETWORK	
Network Interface	2 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, SMTP, P2P $$
ONVIF Protocol Support	Profile S (ONVIF 2.2 or higher)
PC/MAC Software	NMS, Internet Explorer, Firefox, Chrome, Opera, N Control 6000, Edge/Safari, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
Number of Simultaneous Connec	tionsup to 20 clients, up to 36 main streams or 128 substreams or 32 playback streams in total
Bandwidth	192 Mb/s in total to all client workstations
PTZ	
PTZ Functions	pan/tilt/zoom, preset commands
AUXILIARY INTERFACES	
USB Ports	2 x USB 2.0, 1 x USB 3.0,
OPERATING SYSTEM	
Operating System	Linux
Operation Mode	triplex
OSD	languages: Polish, English, others
Control	PC mouse and IR remote controller (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering, MAC filtering
INSTALLATION PARAMETER	RS
Dimensions (mm)	380 (W) x 53 (H) x 268 (D)
Weight	1.5 kg (without HDD)
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)
Power Consumption	40 W (with 2 HDDs)
Operating Temperature	-10°C ~ 50°C
RACK Mount 19"	1U

In order to take full advantage of the recorder capabilities it is recommended to use NOVUS IP 6000 series

The availability of individual functions (including face recognition) depends on the model of cameras used

as well as the software version of the recorder and cameras.

In order to create face recognition system please deploy 6000 series cameras with "F" in the model name

Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES tab.







NoVus

IP Recorder

NVR-6364-H8/R





KEY FEATURES





















- •Video and audio channels: 64
- •Supported protocols: ONVIF, RTSP
- •Recording speed up to 1920 fps at 3840 x 2160
- $\bullet Supports$ resolution up to 3840 x 2160
- Recorded stream size: 320 Mb/s in total from all cameras
- •Internal HDDs mount: 8
- •Monitor outputs: 3 (HDMI (4K UltraHD), HDMI, VGA)
- •Intelligent image analysis
- •RAID protects recordings

DIMENSIONS



VIDEO

IP Cameras	up to 64 channels at 3840 x 2160 resolution (video + audio)
Maximum Supported Camera Resolution	3840 x 2160
Compression	H.264, H.264+, H.265, H.265+, H.265 Smart
Monitor Output	main (split screen, full screen, sequence): 1 x VGA, 1 x HDMI (4K UltraHD) • spot: 1 x HDMI (FullHD)
Dualstreaming Support	yes
Fisheye Support	yes, 3000/6000 IP series cameras
AUDIO	
Audio Input/Output	1 x line-in (RCA) / 1 x HDMI, 1 x line-out (RCA)
RECORDING	
Stream Size	320 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, alarm input, motion detection, intelligent image analysis functions
Prealarm/Postalarm	up to 5 s/up to 600 s
DISPLAY	
Display Speed	1920 fps (64 x 30 fps)
PLAYBACK	
Playback Speed	480 fps (16 x 30 fps)
Recorded Data Search	by date/time, events, motion in a defined area, related to face recognition
BACKUP	
Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	AVI, RPAS (player included)
STORAGE	
Internal Storage	available mount: 8 x HDD 3.5" 14 TB SATA
Total Internal Capacity	112 TB
RAID Mode	RAID0, RAID1, RAID5, RAID6, RAID10
ALARM	
Internal Alarm Input/Output	8/4 relay type
Camera Alarm Input/Output	supports camera's alarm input/output
Motion Detection	supports camera's motion detection
System Reaction to Alarm Events	buzzer, e-mail, alarm output activation, recording activation, PTZ
System Reaction to Aldim Events	buzzer, e-man, alarm butput activation, recording activation, PTZ









IP Recorder NVR-6364-H8/R

INTELL	IGENT	IMAGE	ANALYSIS	
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Supported Functions	Exception, Scene Change, Video Blurred, Video Color Cast, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Face Detection, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, Analysis of Recognized Number Plate Numbers (LPR)
NETWORK	
Network Interface	2 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, SMTP, P2P
ONVIF Protocol Support	Profile S (ONVIF 2.2 or higher)
PC/MAC Software	NMS, Internet Explorer, Firefox, Chrome, Opera, Safari, N Control 6000, Edge/Safari, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
Number of Simultaneous Connection	nsup to 20 clients, up to 68 main streams or 256 substreams or 32 playback streams in total
Bandwidth	320 Mb/s in total to all client workstations
PTZ	
PTZ Functions	pan/tilt/zoom, preset commands
AUXILIARY INTERFACES	
USB Ports	2 x USB 2.0 1 x USB 3.0
OPERATING SYSTEM	
Operating System	Linux
OSD	languages: Polish, English, others
Control	PC mouse and IR remote controller (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering, MAC filtering
INSTALLATION PARAMETERS	
Dimensions (mm)	430 (W) x 90 (H) x 453 (D)
Weight	6 kg (without HDD)
Power Supply	100 ~ 240 VAC
Power Consumption	175 W (with 8 HDDs)
Operating Temperature	-10°C ~ 50°C
RACK Mount 19"	2U

In order to take full advantage of the recorder capabilities, it is recommended to use NOVUS IP 6000 series cameras. The availability of individual functions depends on the model of cameras used as well as the software version of the recorder and cameras. Detailed data can be found in the compatibility table available in the DOWNLOADS tab







IP Recorder

NVR-6204P4-H1





KEY FEATURES























- •Video and audio channels: 4
- •Supported protocols: ONVIF, RTSP
- •Recording speed up to 120 fps at 2592 x 1944
- •Supports resolution up to 2592 x 1944
- •Recorded stream size: 28 Mb/s in total from all cameras
- •Internal HDDs mount: 1
- •Monitor outputs: 2 (HDMI, VGA)
- •Intelligent image analysis

DIMENSIONS





VIDEO	
IP Cameras	up to 4 channels at 2592 x 1944 resolution (video + audio)
Maximum Supported Camera Resolution	2592 x 1944
Compression	H.264, H.264+, H.265
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI, 1 x VGA (up to 2 monitors simultaneously)
Dualstreaming Support	yes
AUDIO	
Audio Input/Output	- / 1 x HDMI
RECORDING	
Stream Size	28 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, motion detection
Prealarm/Postalarm	up to 5 s/up to 600 s
DISPLAY	
Display Speed	120 fps (4 x 30 fps)
PLAYBACK	
Playback Speed	120 fps (4 x 30 fps)
Recorded Data Search	by date/time, events
BACKUP	

Backup Methods

Total Internal Capacity

Backup File Format	AVI	
STORAGE		
Internal Storage	available mount: 1 x HDD 3.5" 6 TB SATA	

USB port (HDD or Flash memory), network

ALADM

ALANII	
Camera Alarm Input/Output	supports camera's alarm input/output
Motion Detection	supports camera's motion detection
System Reaction to Alarm Events	buzzer, recording activation, PTZ, e-mail with atatchment

6 TB

INTELLIGENT IMAGE ANALYSIS

Supported Functions

Exception, Scene Change, Video Blurred, Video Color Cast, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Face Detection, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, Analysis of Recognized Number Plate Numbers (LPR)









IP Recorder NVR-6204P4-H1

NETWORK	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s • 4 x Ethernet PoE - RJ-45 interface, 10/100 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, SMTP, P2P
ONVIF Protocol Support	Profile S (ONVIF 2.2 or higher)
PC/MAC Software	NMS, Internet Explorer, Firefox, Chrome, Opera, Safari, N Control 6000, Edge/Safari, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
Number of Simultaneous Connectio	nsup to 5 clients, up to 8 main streams or 16 substreams or 4 playback streams in total
Bandwidth	28 Mb/s in total to all client workstations
PTZ	
PTZ Functions	pan/tilt/zoom, preset commands
AUXILIARY INTERFACES	
USB Ports	2 x USB 2.0
OPERATING SYSTEM	
Operating System	Linux
Operation Mode	triplex
OSD	languages: Polish, English, others
Control	PC mouse (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering, MAC filtering
INSTALLATION PARAMETERS	
Dimensions (mm)	255 (W) x 42 (H) x 233 (D)
Weight	0.8 kg (without HDD)
Power Supply	48 VDC (100 ~ 240 VAC/48 VDC PSU in-set included)
Power Consumption	15 W (with 1 HDD) + 47 W PoE
Operating Temperature	-10°C ~ 50°C

In order to take full advantage of the recorder capabilities, it is recommended to use NOVUS IP 6000 series cameras. The availability of individual functions depends on the model of cameras used as well as the software version of the recorder and cameras. Detailed data can be found in the compatibility table available in the DOWNLOADS tab

 $\label{thm:compatible} \textit{The list of compatible drives is available in the DOWNLOADS tab.}$







IP Recorder

NVR-6304P4-H1-II





KEY FEATURES











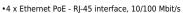












- •Video and audio channels: 4
- •Supported protocols: ONVIF
- •Recording speed up to 120 fps at 3840 x 2160
- •Supports resolution up to 3840 x 2160
- •Recorded stream size: 40 Mb/s in total from all cameras
- •Internal HDDs mount: 1
- •Monitor outputs: 2 (HDMI (4K UltraHD), VGA)
- •Intelligent image analysis

DIMENSIONS



VIDEO	
IP Cameras	up to 4 channels at 3840 x 2160 resolution (video + audio)
Maximum Supported Camera Resolution	3840 x 2160
Compression	H.264, H.264+, H.265
Monitor Output	main (split screen, full screen, sequence): 1 x VGA, 1 x HDMI (4K UltraHD) (up to 2 monitors simultaneously)
Dualstreaming Support	yes
AUDIO	
Audio Input/Output	1 x line-in (RCA) / 1 x line-out (RCA), 1 x HDMI
RECORDING	
Stream Size	40 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, motion detection
Prealarm/Postalarm	up to 5 s/up to 600 s
DISPLAY	
Display Speed	120 fps (4 x 30 fps)
PLAYBACK	
Playback Speed	120 fps (4 x 30 fps)
Recorded Data Search	by date/time, events
BACKUP	
Backup Methods	USB port (HDD or Flash memory), network

Total Internal Capacity ALARM

STORAGE Internal Storage

Backup File Format

Camera Alarm Input/Output	supports camera's alarm input/output
Motion Detection	supports camera's motion detection
System Reaction to Alarm Events	buzzer, recording activation, PTZ, e-mail with atatchment

available mount: 1 x HDD 3.5" 10 TB SATA

AVI, DAT

10 TB









IP Recorder NVR-6304P4-H1-II

	Exception, Scene Change, Video Blurred, Video Color Cast, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Crowd detection, Face Detection, People Counting, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, Analysis of Recognized Number Plate Numbers (LPR)
NETWORK	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s • 4 x Ethernet PoE RJ-45 interface, 10/100 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, SMTP, P2P
ONVIF Protocol Support	Profile S (ONVIF 2.2 or higher)
PC/MAC Software	NMS, Internet Explorer, Firefox, Chrome, Opera, Safari, N Control 6000, Edge/Safari, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
Number of Simultaneous Connec	ctionsup to 5 clients, up to 8 main streams or 16 substreams or 4 playback streams in total
Bandwidth	40 Mb/s in total to all client workstations
PTZ	
PTZ Functions	pan/tilt/zoom, preset commands
AUXILIARY INTERFACES	
AUXILIARY INTERFACES USB Ports	2 x USB 2.0
USB Ports	2 x USB 2.0
	2 x USB 2.0 Linux
USB Ports OPERATING SYSTEM	
USB Ports OPERATING SYSTEM Operating System	Linux
OPERATING SYSTEM Operating System Operation Mode	Linux triplex
OPERATING SYSTEM Operating System Operation Mode OSD	Linux triplex languages: Polish, English, others
OPERATING SYSTEM Operating System Operation Mode OSD Control	Linux triplex languages: Polish, English, others IR remote controller, PC mouse (in-set included), network
OPERATING SYSTEM Operating System Operation Mode OSD Control System Diagnostic	Linux triplex languages: Polish, English, others IR remote controller, PC mouse (in-set included), network automatic control of: HDDs, network, camera connection loss password protection, IP filtering, MAC filtering
OPERATING SYSTEM Operating System Operation Mode OSD Control System Diagnostic Security	Linux triplex languages: Polish, English, others IR remote controller, PC mouse (in-set included), network automatic control of: HDDs, network, camera connection loss password protection, IP filtering, MAC filtering
OPERATING SYSTEM Operating System Operation Mode OSD Control System Diagnostic Security INSTALLATION PARAMETE	Linux triplex languages: Polish, English, others IR remote controller, PC mouse (in-set included), network automatic control of: HDDs, network, camera connection loss password protection, IP filtering, MAC filtering
OPERATING SYSTEM Operating System Operation Mode OSD Control System Diagnostic Security INSTALLATION PARAMETE Dimensions (mm)	Linux triplex languages: Polish, English, others IR remote controller, PC mouse (in-set included), network automatic control of: HDDs, network, camera connection loss password protection, IP filtering, MAC filtering RS 300 (W) x 52 (H) x 248 (D)
OPERATING SYSTEM Operating System Operation Mode OSD Control System Diagnostic Security INSTALLATION PARAMETE Dimensions (mm) Weight	Linux triplex languages: Polish, English, others IR remote controller, PC mouse (in-set included), network automatic control of: HDDs, network, camera connection loss password protection, IP filtering, MAC filtering RS 300 (W) x 52 (H) x 248 (D) 1.16 kg (without HDD)

In order to take full advantage of the recorder capabilities, it is recommended to use NOVUS IP 6000 series cameras. The availability of individual functions depends on the model of cameras used as well as the software version of the recorder and cameras. Detailed data can be found in the compatibility table available in the DOWNLOADS tab







IP Recorder

NVR-6208P8-H1





KEY FEATURES





















- •8 x Ethernet PoE RJ-45 interface
- •Video and audio channels: 8
- •Supported protocols: ONVIF
- •Recording speed up to 240 fps at 2592 x 1944
- •Supports resolution up to 2592 x 1944
- •Recorded stream size: 40 Mb/s in total from all cameras
- •Internal HDDs mount: 1
- •Monitor outputs: 2 (HDMI, VGA)
- •Intelligent image analysis

DIMENSIONS







VIDEO	
IP Cameras	up to 8 channels at 2592 x 1944 resolution (video + audio)
Maximum Supported Camera Resolution	2592 x 1944
Compression	H.264, H.264+, H.265
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI, 1 x VGA (up to 2 monitors simultaneously)
Dualstreaming Support	yes
AUDIO	
Audio Input/Output	- / 1 x HDMI
RECORDING	
Stream Size	40 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, motion detection
Prealarm/Postalarm	up to 5 s/up to 600 s
DISPLAY	
Display Speed	240 fps (8 x 30 fps)

PLAYBACK

Playback Speed	240 fps (8 x 30 fps for 2592 x 1944) • 240 fps (8 x 30 fps)
Recorded Data Search	by date/time, events

BACKUP

Backup Methods

Total Internal Capacity

Backup File Format	AVI, RPAS (player included)	
STORAGE		
Internal Storage	available mount: 1 x HDD 3.5" 6 TB SATA	

6 TB

USB port (HDD or Flash memory), network

ALARM

Camera Alarm Input/Output	supports camera's alarm input/output
Motion Detection	supports camera's motion detection
System Reaction to Alarm Events	buzzer, recording activation, PTZ, e-mail with atatchment

INTELLIGENT IMAGE ANALYSIS

Supported Functions

Exception, Scene Change, Video Blurred, Video Color Cast, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Face Detection, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, Analysis of Recognized Number Plate Numbers (LPR)









IP Recorder NVR-6208P8-H1

Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s • 8 x Ethernet PoE - RJ-45 interface	
Network Protocols Support	HTTP, TCP/IP, IPv4, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, SMTP, P2P	
ONVIF Protocol Support	Profile S (ONVIF 2.2 or higher)	
PC/MAC Software	NMS, Internet Explorer, Firefox, Chrome, Opera, Safari, N Control 6000, Edge/Safari, N Control 6000	
Mobile applications	SuperLive Plus (iPhone, Android)	
Number of Simultaneous Connection	sup to 5 clients, up to 12 main streams or 32 substreams or 8 playback streams in total	
Bandwidth	40 Mb/s in total to all client workstations	
PTZ		
PTZ Functions	pan/tilt/zoom, preset commands	
AUXILIARY INTERFACES		
USB Ports	2 x USB 2.0	
OPERATING SYSTEM		
Operating System	Linux	
Operation Mode	triplex	
OSD	languages: Polish, English, others	
Control	PC mouse (in-set included), network	
System Diagnostic	automatic control of: HDDs, network, camera connection loss	
Security	password protection, IP filtering, MAC filtering	
INSTALLATION PARAMETERS		
Dimensions (mm)	255 (W) x 42 (H) x 233 (D)	
Weight	0.84 kg (without HDD)	
Power Supply	48 VDC (100 ~ 240 VAC/48 VDC PSU in-set included)	
Power Supply Power Consumption	48 VDC (100 ~ 240 VAC/48 VDC PSU in-set included) 15 W (with 1 HDD) + 105 W PoE	

Support for intelligent image analysis works only with NOVUS IP 6000 & 3000 series cameras The availability of the following functions: double-stream operation, motion detection, alarm inputs / outputs, PTZ control depends on the functionality of the camera and the capabilities of the communication protocol. Detailed data can be found in the compatibility table available in the DOWNLOADS tab.







IP Recorder

NVR-6308P8-H1-II





KEY FEATURES

























- •8 x Ethernet PoE RJ-45 interface, 10/100 Mbit/s
- •Video and audio channels: 8
- •Supported protocols: ONVIF, RTSP
- •Recording speed up to 240 fps at 3840 x 2160
- •Supports resolution up to 3840 x 2160
- ullet Recorded stream size: 80 Mb/s in total from all
- •Internal HDDs mount: 1
- •Monitor outputs: 2 (HDMI (4K UltraHD), VGA)
- •Intelligent image analysis

DIMENSIONS



IP Cameras	up to 8 channels at 3840 x 2160 resolution (video + audio)
Maximum Supported Camera Resolution	3840 x 2160
Compression	H.264, H.264+, H.265
Monitor Output	main (split screen, full screen, sequence): $1 \times VGA$, $1 \times HDMI$ (4K UltraHD) (up to 2 monitors simultaneously)
Dualstreaming Support	yes
AUDIO	
Audio Input/Output	- / 1 x line-out (RCA)
RECORDING	
Stream Size	80 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, motion detection
Prealarm/Postalarm	up to 5 s/up to 600 s
DISPLAY	

Display Speed 240 fps (8 x 30 fps)

PLAYBACK

Playback Speed 240 fps (8 x 30 fps) Recorded Data Search by date/time, events

BACKUP

Backup Methods

Backup File Format

STORAGE	
Internal Storage	available mount: 1 x HDD 3.5" 10 TB SATA
Total Internal Capacity	10 TB

AVI, RPAS (player included)

USB port (HDD or Flash memory), network

ALARM

Camera Alarm Input/Output supports camera's alarm input/output	
Motion Detection	supports camera's motion detection
System Reaction to Alarm Events	buzzer, recording activation, PTZ, e-mail with atatchment









IP Recorder NVR-6308P8-H1-II

Supported Functions	Exception, Scene Change, Video Blurred, Video Color Cast, Tripwire Zone entrance, Abandoned Object, Object Disappearance, Crowd detection, Face Detection, People Counting, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, Analysis of Recognized Number Plate Number (LPR)	
NETWORK		
Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s • 8 x Ethernet PoE RJ-45 interface, 10/100 Mbit/s	
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, SMTP, P2P	
ONVIF Protocol Support	Profile S (ONVIF 2.2 or higher)	
PC/MAC Software	NMS, Internet Explorer, N Control 6000/N Control 6000	
Mobile applications	SuperLive Plus (iPhone, Android)	
Number of Simultaneous Conne	ectionsup to 2 clients, up to 5 main streams or 12 substreams or 8 playback streams in total	
Bandwidth	80 Mb/s in total to all client workstations	
PTZ		
PTZ Functions	pan/tilt/zoom, preset commands	
AUXILIARY INTERFACES		
USB Ports	2 x USB 2.0	
OPERATING SYSTEM		
Operating System	Linux	
Operation Mode	triplex	
OSD	languages: Polish, English, others	
Control	IR remote controller, PC mouse (in-set included), network	
System Diagnostic	automatic control of: HDDs, network, camera connection loss	
System Diagnostic Security	automatic control of: HDDs, network, camera connection loss password protection, IP filtering, MAC filtering	
	password protection, IP filtering, MAC filtering	
Security	password protection, IP filtering, MAC filtering	
Security INSTALLATION PARAMETE	password protection, IP filtering, MAC filtering	
Security INSTALLATION PARAMETE Dimensions (mm)	password protection, IP filtering, MAC filtering ERS 300 (W) x 52 (H) x 248 (D)	
Security INSTALLATION PARAMETE Dimensions (mm) Weight	password protection, IP filtering, MAC filtering ERS 300 (W) x 52 (H) x 248 (D) 1.16 kg (without HDD)	

In order to take full advantage of the recorder capabilities, it is recommended to use NOVUS IP 6000 series cameras. The availability of individual functions depends on the model of cameras used as well as the software version of the recorder and cameras. Detailed data can be found in the compatibility table available in the DOWNLOADS tab







IP Recorder

NVR-6316P16-H2





KEY FEATURES















- •16 x Ethernet PoE RJ-45 interface, 10/100 Mbit/s
- •Video and audio channels: 16
- •Supported protocols: ONVIF, RTSP
- •Recording speed up to 480 fps at 3840 x 2160
- \bullet Supports resolution up to 3840 x 2160
- •Recorded stream size: 112 Mb/s in total from all cameras
- •Internal HDDs mount: 2
- •Monitor outputs: 2 (HDMI (4K UltraHD), VGA)
- RACK mount
- •Intelligent image analysis

DIMENSIONS



VIDEO		
IP Cameras	up to 16 channels at 3840 x 2160 resolution (video + audio)	
Maximum Supported Camera Resolution	3840 x 2160	
Compression	H.264, H.264+, H.265	
Monitor Output	main (split screen, full screen, sequence): 1 x VGA, 1 x HDMI (4k UltraHD) (up to 2 monitors simultaneously)	
Dualstreaming Support	yes	
AUDIO		
Audio Input/Output	1 x line-in (RCA) / 1 x HDMI, 1 x line-out (RCA)	
RECORDING		
Stream Size	112 Mb/s in total from all cameras	
Recording Mode	time-lapse, triggered by: manual, alarm input, motion detection	
Prealarm/Postalarm	up to 5 s/up to 600 s	
DISPLAY		
Display Speed	480 fps (16 x 30 fps)	
PLAYBACK		
Playback Speed	480 fps (16 x 30 fps)	

BACKUP

Backup Methods

Backup File Format

Recorded Data Search

STORAGE		
Internal Storage	available mount: 2 x HDD 3.5" 10 TB SATA	
Total Internal Capacity	20 TB	

AVI, RPAS (player included)

USB port (HDD or Flash memory), network

by date/time, events

ALARM

Camera Alarm Input/Output	supports camera's alarm input/output		
Motion Detection	supports camera's motion detection		
System Reaction to Alarm Events	buzzer, e-mail, alarm output activation, recording activation, PTZ		

INTELLIGENT IMAGE ANALYSIS

Supported Functions Exception, Scene Change, Video Blurred, Video Color Cast, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Face

Detection, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, Analysis of Recognized Number Plate Numbers (LPR)









IP Recorder NVR-6316P16-H2

N	E.	T١	W	0	R	K

Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s • 16 x Ethernet Pc - RJ-45 interface, 10/100 Mbit/s	
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPn SNMP, SMTP, P2P	
ONVIF Protocol Support	Profile S (ONVIF 2.2 or higher)	
PC/MAC Software	NMS, Internet Explorer, Firefox, Chrome, Opera, Safari, N Control 6000, Edge/Safari, N Control 6000	
Mobile applications	SuperLive Plus (iPhone, Android)	
Number of Simultaneous Connect	ionsup to 4 clients	
Bandwidth	112 Mb/s in total to all client workstations	
PTZ		
PTZ Functions	pan/tilt/zoom, preset commands	
AUXILIARY INTERFACES		
USB Ports	2 x USB 2.0	
OPERATING SYSTEM		
Operating System	Linux	
Operation Mode	triplex	
OSD	languages: Polish, English, others	
Control	PC mouse and IR remote controller (in-set included), network	
System Diagnostic	automatic control of: HDDs, network, camera connection loss	
Security	password protection, IP filtering, MAC filtering	
INSTALLATION PARAMETER	s	
Dimensions (mm)	380 (W) x 52 (H) x 268 (D)	
Weight	2.7 kg (without HDD)	
Power Supply	48 VDC (100 ~ 240 VAC/48 VDC PSU in-set included)	
Power Consumption	40 W (with 2 HDDs) + 140 W PoE	
Power Consumption Operating Temperature	40 W (with 2 HDDs) + 140 W PoE -10°C ~ 50°C	

In order to take full advantage of the recorder capabilities, it is recommended to use NOVUS IP 6000 series cameras. The availability of individual functions depends on the model of cameras used as well as the software version of the recorder and cameras. Detailed data can be found in the compatibility table available in the DOWNLOADS tab







IP Recorder

NVR-6332P16-H4/F





KEY FEATURES















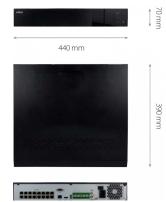






- •16 x Ethernet PoE RJ-45 interface, 10/100 Mbit/s
- •Video and audio channels: 32
- •Supported protocols: ONVIF, RTSP
- •Recording speed up to 960 fps at 3840 x 2160
- •Supports resolution up to 3840 x 2160
- •Recorded stream size: 256 Mb/s in total from all cameras
- •Internal HDDs mount: 4
- •Monitor outputs: 2 (HDMI (4K UltraHD), VGA)
- RACK mount
- •Face recognition

DIMENSIONS



IP Cameras	up to 32 channels at 3840 x 2160 resolution (video + audio)
Maximum Supported Camera Resolution	3840 x 2160
Compression	H.264, H.264+, H.265, H.265 Smart
Monitor Output	main (split screen, full screen, sequence): $1 \times VGA$, $1 \times HDMI$ (4K UltraHD) (up to 2 monitors simultaneously)
Dualstreaming Support	yes
Fisheye Support	yes, 3000/6000 IP series cameras
AUDIO	
Audio Input/Output	1 x line-in (RCA) / 1 x HDMI, 1 x line-out (RCA)
RECORDING	
Stream Size	256 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, alarm input, motion detection
Prealarm/Postalarm	up to 5 s/up to 600 s
DISPLAY	
Display Speed	960 fps (32 x 30 fps)
PLAYBACK	
Playback Speed	480 fps (16 x 30 fps)
Recorded Data Search	by date/time, events, motion in a defined area, related to face recognition
BACKUP	
Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	AVI, RPAS (player included)

STORAGE		
Internal Storage	available mount: 4 x HDD 3.5" 14 TB SATA	

56 TB

ALARM

Total Internal Capacity

Internal Alarm Input/Output	16/4 relay type
Camera Alarm Input/Output	supports camera's alarm input/output
Motion Detection	supports camera's motion detection
System Reaction to Alarm Events	buzzer, e-mail, alarm output activation, recording activation, PTZ









IP Recorder NVR-6332P16-H4/F

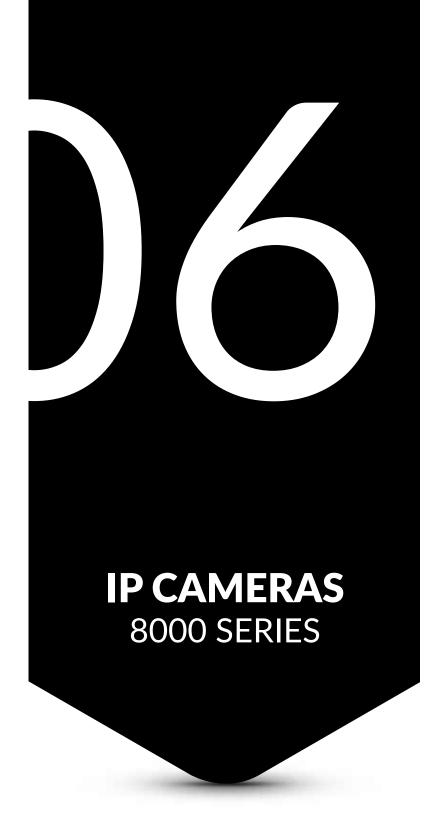
Supported Functions	Exception, Scene Change, Video Blurred, Video Color Cast, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Face Recognition, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, Analysis of Recognized Number Plate Numbers (LPR)
NETWORK	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s • 16 x Ethernet PoE - RJ-45 interface, 10/100 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, SMTP, P2P
ONVIF Protocol Support	Profile S (ONVIF 2.2 or higher)
PC/MAC Software	NMS, Internet Explorer, Firefox, Chrome, Opera, N Control 6000, Edge/Safari, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
Number of Simultaneous Connectio	nsup to 10 clients, up to 36 main streams or 128 substreams or 16 playback streams in total
Bandwidth	256 Mb/s in total to all client workstations
PTZ	
PTZ Functions	pan/tilt/zoom, preset commands
AUXILIARY INTERFACES	
USB Ports	1 x USB 2.0 1 x USB 3.0
OPERATING SYSTEM	
Operating System	Linux
Operation Mode	triplex
OSD	languages: Polish, English, others
Control	PC mouse and IR remote controller (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering, MAC filtering
INSTALLATION PARAMETERS	
Dimensions (mm)	440 (W) x 70 (H) x 390 (D)
Weight	4.4 kg (without HDD)
Power Supply	100 ~ 240 VAC
Power Consumption	60 W (with 4 HDDs) + 246 W PoE
Operating Temperature	-10°C ~ 50°C
RACK Mount 19"	2U

In order to take full advantage of the recorder capabilities, it is recommended to use NOVUS IP 6000 series cameras. The availability of individual functions depends on the model of cameras used as well as the software version of the recorder and cameras. Detailed data can be found in the compatibility table available in the DOWNLOADS tab











Bullet IP LPR Camera with Motor-zoom Lens

NVIP-2H-8002M/LPR





KEY FEATURES

















- •Lens: motorized, auto-iris and auto-focus function, f=7 \sim 22 mm/F1.4
- •D/N function IR cut filter
- •Licence plate recognition (LPR)
- •SD card support
- •WDR with double scan sensor
- •Min. Illumination from 0.0014 lx (0 lx, IR on)
- \bullet IR LED, range up to 60 m $\,$

DIMENSIONS









377 mm

IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SONY Exmor R STARVIS
Number of Effective Pixels	1945 (H) x 1097 (V)
Min. Illumination	0.0014 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Image Stabilization (DIS)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes

LENS

Lens Type	motorized, auto-iris function, f=7 ~ 22 mm/F1.4
Auto-focus	zoom trigger, manual trigger

DAY/NIGHT

2711/1110111	
Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	0 ~ 180 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

NETWORK	
Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 704 x 576, 704 x 480, 640 x 480 (VGA), 640 x 360, 352 x 288 (CIF), 320 x 240 (QVGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264 Smart, H.265, H.265 Smart, MJPEG/G.711, RAW_PCM
Number of Simultaneous Conne	ectionsmax. 8
Bandwidth	40 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, PPPoE, SMTP
ONVIF Protocol Support	Profile S
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others







Bullet IP LPR Camera with Motor-zoom Lens NVIP-2H-8002M/LPR

Compatible Software	NMS
OTHER FUNCTIONS	
Privacy Zones	4
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, double line cross, loiter, multi loiter, abnormal speed, converse, illegal parking
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode
Prealarm/Postalarm	up to 5 MB/up to 86400 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card
LICENCE PLATE RECOGNITION	(LPR)
Autonomous operation mode	yes - recognition function implemented in the camera
Capacity of License Plate Database	up to 3000 license plates, on all lists.
Types of recognized number plates	all countries of the European Union / CIS countries / Turkey / Israel / Switzerland / Norway and others
Barrier control	yes - built-in relay output
Recommended maximum speed of the vehicle	up to 50 km/h
Reactions for the licence plate recognition	saving file on FTP server, alarm output activation
IR LED	
LED Number	8
LED Number Range	8 60 m
	·
Range	60 m
Range Angle	60 m
Range Angle INTERFACES	60 m 80°
Range Angle INTERFACES Video Output	60 m 80° BNC, 1.0 Vp-p, 75 Ohm - maintenance only
Range Angle INTERFACES Video Output Audio Input/Output	60 m 80° BNC, 1.0 Vp-p, 75 Ohm - maintenance only 1 x RCA/1 x RCA
Range Angle INTERFACES Video Output Audio Input/Output Alarm Input/Output	60 m 80° BNC, 1.0 Vp-p, 75 Ohm - maintenance only 1 x RCA/1 x RCA 1 (NO/NC)/1 relay type
Range Angle INTERFACES Video Output Audio Input/Output Alarm Input/Output RS-485	60 m 80° BNC, 1.0 Vp-p, 75 Ohm - maintenance only 1 x RCA/1 x RCA 1 (NO/NC)/1 relay type yes
Range Angle INTERFACES Video Output Audio Input/Output Alarm Input/Output RS-485 Network Interface Memory Card Slot	60 m 80° BNC, 1.0 Vp-p, 75 Ohm - maintenance only 1 x RCA/1 x RCA 1 (NO/NC)/1 relay type yes 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Range Angle INTERFACES Video Output Audio Input/Output Alarm Input/Output RS-485 Network Interface	60 m 80° BNC, 1.0 Vp-p, 75 Ohm - maintenance only 1 x RCA/1 x RCA 1 (NO/NC)/1 relay type yes 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Range Angle INTERFACES Video Output Audio Input/Output Alarm Input/Output RS-485 Network Interface Memory Card Slot INSTALLATION PARAMETERS	60 m 80° BNC, 1.0 Vp-p, 75 Ohm - maintenance only 1 x RCA/1 x RCA 1 (NO/NC)/1 relay type yes 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s SD - capacity up to 128GB
Range Angle INTERFACES Video Output Audio Input/Output Alarm Input/Output RS-485 Network Interface Memory Card Slot INSTALLATION PARAMETERS Dimensions (mm)	60 m 80° BNC, 1.0 Vp-p, 75 Ohm - maintenance only 1 x RCA/1 x RCA 1 (NO/NC)/1 relay type yes 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s SD - capacity up to 128GB with bracket: 110 (Φ) x 377 (L)
Range Angle INTERFACES Video Output Audio Input/Output Alarm Input/Output RS-485 Network Interface Memory Card Slot INSTALLATION PARAMETERS Dimensions (mm) Weight	60 m 80° BNC, 1.0 Vp-p, 75 Ohm - maintenance only 1 x RCA/1 x RCA 1 (NO/NC)/1 relay type yes 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s SD - capacity up to 128GB with bracket: 110 (Φ) x 377 (L) 1.7 kg
Range Angle INTERFACES Video Output Audio Input/Output Alarm Input/Output RS-485 Network Interface Memory Card Slot INSTALLATION PARAMETERS Dimensions (mm) Weight Degree of Protection	60 m 80° BNC, 1.0 Vp-p, 75 Ohm - maintenance only 1 x RCA/1 x RCA 1 (NO/NC)/1 relay type yes 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s SD - capacity up to 128GB with bracket: 110 (Φ) x 377 (L) 1.7 kg IP 66 (details in the user's manual) aluminium, white, fully cable managed wall mount bracket in-set
Range Angle INTERFACES Video Output Audio Input/Output Alarm Input/Output RS-485 Network Interface Memory Card Slot INSTALLATION PARAMETERS Dimensions (mm) Weight Degree of Protection Enclosure	60 m 80° BNC, 1.0 Vp-p, 75 Ohm - maintenance only 1 x RCA/1 x RCA 1 (NO/NC)/1 relay type yes 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s SD - capacity up to 128GB with bracket: 110 (Φ) x 377 (L) 1.7 kg IP 66 (details in the user's manual) aluminium, white, fully cable managed wall mount bracket in-set included
Range Angle INTERFACES Video Output Audio Input/Output Alarm Input/Output RS-485 Network Interface Memory Card Slot INSTALLATION PARAMETERS Dimensions (mm) Weight Degree of Protection Enclosure Power Supply	60 m 80° BNC, 1.0 Vp-p, 75 Ohm - maintenance only 1 x RCA/1 x RCA 1 (NO/NC)/1 relay type yes 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s SD - capacity up to 128GB with bracket: 110 (Φ) x 377 (L) 1.7 kg IP 66 (details in the user's manual) aluminium, white, fully cable managed wall mount bracket in-set included PoE, 12 VDC
Range Angle INTERFACES Video Output Audio Input/Output Alarm Input/Output RS-485 Network Interface Memory Card Slot INSTALLATION PARAMETERS Dimensions (mm) Weight Degree of Protection Enclosure Power Supply Surge protection	60 m 80° BNC, 1.0 Vp-p, 75 Ohm - maintenance only 1 x RCA/1 x RCA 1 (NO/NC)/1 relay type yes 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s SD - capacity up to 128GB with bracket: 110 (Φ) x 377 (L) 1.7 kg IP 66 (details in the user's manual) aluminium, white, fully cable managed wall mount bracket in-set included PoE, 12 VDC TVS 4000 V
Range Angle INTERFACES Video Output Audio Input/Output Alarm Input/Output RS-485 Network Interface Memory Card Slot INSTALLATION PARAMETERS Dimensions (mm) Weight Degree of Protection Enclosure Power Supply Surge protection Power Consumption	60 m 80° BNC, 1.0 Vp-p, 75 Ohm - maintenance only 1 x RCA/1 x RCA 1 (NO/NC)/1 relay type yes 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s SD - capacity up to 128GB with bracket: 110 (Φ) x 377 (L) 1.7 kg IP 66 (details in the user's manual) aluminium, white, fully cable managed wall mount bracket in-set included PoE, 12 VDC TVS 4000 V 4 W • 14.5 W (IR and heater on)









Bullet IP LPR Camera with Motor-zoom Lens NVIP-2H-8002M/LPR

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The above data applies to cameras with firmware v3.6.0804.1004.89.0.10.11.9.D05







Vandal Proof IP Camera with Fisheye Lens NVIP-12F-8001





KEY FEATURES



















- •Resolution: 12 MPX
- •Lens: fisheye, f=1.8 mm/F2.4
- •D/N function IR cut filter
- Video content analysis
- •microSD card support
- •Min. Illumination from 0.04 lx (0 lx, IR on)
- \bullet IR LED, range up to 10 m $\,$

DIMENSIONS







IMAGE

Image Sensor	12 MPX CMOS sensor 1/1.7" SONY Exmor R STARVIS
Number of Effective Pixels	4072 (H) x 3046 (V)
Min. Illumination	0.04 lx/F2.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes

LENS

Lens Type	fisheye, f=1.8 mm/F2.4
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DAY/NIGHT

2711/1110111	
Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	0 ~ 180 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK	
Stream Resolution	4000 x 3000, 4000 x 2000, 3840 x 2160 (4K Ultra HD), 3000 x 3000, 2560 x 2560, 1920 x 1080 (Full HD), 1280 x 960, 720 x 720, 704 x 576
Frame Rate	20 fps for 4000 x 3000 • 25 fps for 4000 x 2000 and lower resolutions
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.264 Smart, H.265, H.265 Smart, MJPEG/G.711, RAW_PCM
Number of Simultaneous Conne	ectionsmax. 8
Bandwidth	30 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, UDP, HTTPS, Multicast, FTP, DHCP, DNS, NTP, RTSP, RTP, UPnP, IEEE 802.1X, PPPoE, SMTP, RTCP, SSL, ICMP, Unicast
ONVIF Protocol Support	Profile S
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS







Vandal Proof IP Camera with Fisheye Lens NVIP-12F-8001

Privacy Zones	4
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, double line cross, loiter, multi loiter, abnormal speed, converse, illegal parking
Image Processing	180° image rotation, mirror effect
Prealarm/Postalarm	up to 5 MB/up to 86400 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, alarm output activation
IR LED	
LED Number	6
Range	10 m
Angle	180°
INTERFACES	
Audio Input/Output	1 x RCA/1 x RCA, built-in microphone
Alarm Input/Output	1 (NO/NC)/1
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB
INSTALLATION PARAMETERS	
Dimensions (mm)	162 (Φ) x 52 (H)
Weight	0.7 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white poly-carbonate bubble
Power Supply	PoE, 12 VDC/24 VAC
Power Consumption	3.7 W • 9.5 W (IR on) • 5.7 W (heater on) • 11.5 W (IR and heater on)
Operating Temperature	-30°C ~ 60°C
•	-30°C ~ 60°C max. 90%, relative (non-condensing)

The following functions are available from software version v3.5.0807.1004.89.0.32.3.6: Video Content Analysis (VCA), H.264 Smart, H.265 Smart, BLC.

yes/no

Please keep in mind that due to the specific observation area of cameras with a fisheye lens, the effectiveness of the Video Content Analysis (VCA) function is higher in the central part of the scene and much lower on its edges.

From the software version v3.6.0807.1004.89.0.1.1.6 resolution 4096×2160 has been replaced by the resolution 4000×2000 .







Built-in Heater/Fan



Pole mount adapter

NVB-8000PA



Туре	pole mount adapter
Application	selected 8000, 5000 (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	steel
Color	white
Load Capacity	8 kg
Dimensions (mm)	124 (W) x 120 (H) x 52 (D) φ range = 115 ~ 140
Weight	0.47 kg







Wall/ceiling mount bracket indoor/outdoor **NVB-8005JB**



DIMENSIONS



Type	wall/ceiling mount bracket, indoor/outdoor
Application	Selected 8000 and 5000 series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	white
Load Capacity	4 kg
Degree of Protection	IP 66
Dimensions (mm)	142 φ x 51 (height)
Weight	0.6 kg







Wall/ceiling mount bracket indoor/outdoor **NVB-8060JB**



Туре	wall/ceiling mount bracket, indoor/outdoor
Application	8000 series Fisheye IP cameras (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	white
Load Capacity	4 kg
Dimensions (mm)	175 φ x 32 (height)
Weight	0.53 kg









Wall mount cable managed bracket

NVB-8060WB



DIMENSIONS

Туре	wall mount cable-managed bracket
Application	8000 series Fisheye IP cameras (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	white
Load Capacity	2 kg
Dimensions (mm)	130.5 (W) x 151.5 (H) x 214.3 (L)
Weight	0.43 kg











Speed Dome IP Camera

NVIP-3SD-8200/30





KEY FEATURES



















- •Resolution: 3 MPX
- •Lens: motorized, auto-iris and auto-focus function, optical zoom 30x, f=4.5 \sim 135 mm/F1.6 \sim 4.4
- •D/N function IR cut filter
- •Auto Tracking
- •Video content analysis
- •WDR with double scan sensor
- •Min. Illumination from 0.007 lx (0 lx, IR on)
- •IR LED, range up to 200 m (depends on current optical zoom value)

DIMENSIONS



226 mm (Ø)



IMAGE

Image Sensor	3 MPX CMOS sensor 1/2.8" SONY Exmor R STARVIS
Number of Effective Pixels	2065 (H) x 1553 (V)
Min. Illumination	0.07 lx/F1.6 - color mode • 0.007 lx/F1.6 - B/W mode • 0 lx (IR on) - B/W mode
S/N Ratio	> 55 dB (AGC off)
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Image Stabilization (DIS)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes

LENS

Optical Zoom	30x
Lens Type	motorized, auto-iris function, f=4.5 \sim 135 mm/F1.6 \sim F4.4
Auto-focus	continuous, zoom trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	0 ~ 180 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	2048 x 1536 (QXGA), 1920 x 1080 (Full HD), 1280 x 720 (HD), 704 x 576, 704 x 480, 640 x 480 (VGA), 640 x 360, 352 x 288 (CIF), 352 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 2048 x 1536 (QXGA) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264 Smart, H.265, H.265 Smart, MJPEG/G.711, RAW_PCM
Number of Simultaneous Connect	ionsmax. 8
Bandwidth	30 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SNMP, PPPoE, RTCP







Speed Dome IP Camera NVIP-3SD-8200/30

Compatible Software NMS PTZ Preset Commands 393 Tours 12 (up to 32 presets per tour) Auto-Scans 12 Patterns 6 (max. 1000 commands or 3000 s in total for all patterns) Titl/Pan Range 0° ~ 98"/360" (continuous) Pan/Titl Speed up to 180"/s (proportional to zoom) Preset Speed up to 180"/s Protocols Pelco-D OTHER FUNCTIONS Privacy Zones 4 video mask type: single color Motion Detection yes Region of interest (ROI) 8 Video Content Analysis (VCA) Auto Tracking, Auto Tracking linked to Video Content Analysis (VCA) functions, abandoned object, object disappearance, line cross, zone entrance, double line cross, loiter, multi loiter, abnormal speed, converse, lillegal parking Image Processing 180" image rotation, sharpening, mirror effect System Reaction to Alarm Events ental with attachment, saving file on FTP server, alarm output activation, PTZ IR LED LED Number 10 Range up to 200 m (depends on current optical zoom value) NTERFACES Video Output BNC, 1.0 Vp-p, 75 Ohm - maintenance only Audio Input/Output 1 x RCA/1 x RCA Alarm Input/Output 1 x RCA/1 x RCA Alarm Input/Output 7 (NO/NC)/2 relay type S-485 yes Network Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s INSTALLATION PARAMETERS Dimensions (mm) 226 (Φ) x 363 (H) with bracket: 226 (W) x 425 (H) x 345 (L) Weight 5.1 kg with bracket: 6.1 kg Degree of Protection IP 66 (details in the user's manual) Enclosure aluminium, white, in sec: outdoor housing (integrated with the camera), wall minum bracket Power Supply PoE (tylko z NV-8000PS/HP), 24 VAC (100 – 240 VAC/24 VAC PSU insertincluded) Surge protection 7 VS 5000 V Power Consumption 18 W • 46 W (IR and heater on)	ONVIF Protocol Support	Profile S/O
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Preset Commands 393 Tours 12 (up to 32 presets per tour) Auto-Scans 12 Patterns 6 (max. 1000 commands or 3000 s in total for all patterns) Tilt/Pan Range 0° ~ 98"/360" (continuous) Par/Tilt Speed up to 180"/s (proportional to zoom) Preset Speed up to 180"/s Protocols Petco-D OTHER FUNCTIONS Privacy Zones 4 video mask type: single color Motion Detection yes Region of interest (ROI) 8 Video Content Analysis (VCA) Auto Tracking, Auto Tracking linked to Video Content Analysis (VCA) functions, abandoned object, object disappearance, line cross, zone entrance, double line cross, lotter, multi loiter, abnormal speed, converse, illegal parking Image Processing 180" image rotation, sharpening, mirror effect System Reaction to Alarm Events e-mail with attachment, saving file on FTP server, alarm output activation, PTZ IR LED LED Number 10 Range up to 200 m (depends on current optical zoom value) Angle up to 45° (depends on current optical zoom value) INTERFACES Video Output BNC, 1.0 Vp-p, 75 Ohm - maintenance only Audio Input/Output 1 x RCA/1 x RCA Alarm Input/Output 7 (NO/NC)/2 relay type RS-485 yes Network Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s INSTALLATION PARAMETERS Dimensions (mm) 226 (Φ) x 363 (H) with bracket: 226 (W) x 425 (H) x 345 (L) Weight 5.1 kg with bracket: 6.1 kg Degree of Protection IP 66 (details in the user's manual) Enclosure aluminium, white, in set: outdoor housing (integrated with the camera), wall mount bracket Power Supply Potection TVS 6000 V	Compatible Software	NMS
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Range up to 200 m (depends on current optical zoom value) Angle up to 45° (depends on current optical zoom value) INTERFACES Video Output BNC, 1.0 Vp-p, 75 Ohm - maintenance only Audio Input/Output 1 x RCA/1 x RCA Alarm Input/Output 7 (NO/NC)/2 relay type RS-485 yes Network Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s INSTALLATION PARAMETERS Dimensions (mm) 226 (Φ) x 363 (H) with bracket: 226 (W) x 425 (H) x 345 (L) Weight 5.1 kg with bracket: 6.1 kg Degree of Protection IP 66 (details in the user's manual) Enclosure aluminium, white, in set: outdoor housing (integrated with the camera), wall mount bracket Power Supply PoE (tylko z NV-8000PS/HP), 24 VAC (100 ~ 240 VAC/24 VAC PSU inset included) Surge protection TVS 6000 V	IR LED	
INTERFACES Video Output BNC, 1.0 Vp-p, 75 Ohm - maintenance only Audio Input/Output 1 x RCA/1 x RCA Alarm Input/Output 7 (NO/NC)/2 relay type RS-485 yes Network Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s INSTALLATION PARAMETERS Dimensions (mm) 226 (Φ) x 363 (H) with bracket: 226 (W) x 425 (H) x 345 (L) Weight 5.1 kg with bracket: 6.1 kg Degree of Protection IP 66 (details in the user's manual) Enclosure aluminium, white, in set: outdoor housing (integrated with the camera), wall mount bracket Power Supply PoE (tylko z NV-8000PS/HP), 24 VAC (100 ~ 240 VAC/24 VAC PSU inset included) Surge protection TVS 6000 V	LED Number	10
INTERFACESVideo OutputBNC, 1.0 Vp-p, 75 Ohm - maintenance onlyAudio Input/Output1 x RCA/1 x RCAAlarm Input/Output7 (NO/NC)/2 relay typeRS-485yesNetwork Interface1 x Ethernet - RJ-45 interface, 10/100 Mbit/sINSTALLATION PARAMETERSDimensions (mm)226 (Φ) x 363 (H) with bracket: 226 (W) x 425 (H) x 345 (L)Weight5.1 kg with bracket: 6.1 kgDegree of ProtectionIP 66 (details in the user's manual)Enclosurealuminium, white, in set: outdoor housing (integrated with the camera), wall mount bracketPower SupplyPoE (tylko z NV-8000PS/HP), 24 VAC (100 ~ 240 VAC/24 VAC PSU inset included)Surge protectionTVS 6000 V	Range	up to 200 m (depends on current optical zoom value)
Video OutputBNC, 1.0 Vp-p, 75 Ohm - maintenance onlyAudio Input/Output1 x RCA/1 x RCAAlarm Input/Output7 (NO/NC)/2 relay typeRS-485yesNetwork Interface1 x Ethernet - RJ-45 interface, 10/100 Mbit/sINSTALLATION PARAMETERSDimensions (mm)226 (Φ) x 363 (H) with bracket: 226 (W) x 425 (H) x 345 (L)Weight5.1 kg with bracket: 6.1 kgDegree of ProtectionIP 66 (details in the user's manual)Enclosurealuminium, white, in set: outdoor housing (integrated with the camera), wall mount bracketPower SupplyPoE (tylko z NV-8000PS/HP), 24 VAC (100 ~ 240 VAC/24 VAC PSU inset included)Surge protectionTVS 6000 V	Angle	up to 45° (depends on current optical zoom value)
Audio Input/Output1 x RCA/1 x RCAAlarm Input/Output7 (NO/NC)/2 relay typeRS-485yesNetwork Interface1 x Ethernet - RJ-45 interface, 10/100 Mbit/sINSTALLATION PARAMETERSDimensions (mm)226 (Φ) x 363 (H) with bracket: 226 (W) x 425 (H) x 345 (L)Weight5.1 kg with bracket: 6.1 kgDegree of ProtectionIP 66 (details in the user's manual)Enclosurealuminium, white, in set: outdoor housing (integrated with the camera), wall mount bracketPower SupplyPoE (tylko z NV-8000PS/HP), 24 VAC (100 ~ 240 VAC/24 VAC PSU inset included)Surge protectionTVS 6000 V	INTERFACES	
Alarm Input/Output 7 (NO/NC)/2 relay type RS-485 yes Network Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s INSTALLATION PARAMETERS Dimensions (mm) 226 (Φ) x 363 (H) with bracket: 226 (W) x 425 (H) x 345 (L) Weight 5.1 kg with bracket: 6.1 kg Degree of Protection IP 66 (details in the user's manual) Enclosure aluminium, white, in set: outdoor housing (integrated with the camera), wall mount bracket Power Supply PoE (tylko z NV-8000PS/HP), 24 VAC (100 ~ 240 VAC/24 VAC PSU inset included) Surge protection TVS 6000 V	Video Output	BNC, 1.0 Vp-p, 75 Ohm - maintenance only
RS-485 yes Network Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s INSTALLATION PARAMETERS Dimensions (mm) 226 (Φ) x 363 (H) with bracket: 226 (W) x 425 (H) x 345 (L) Weight 5.1 kg with bracket: 6.1 kg Degree of Protection IP 66 (details in the user's manual) Enclosure aluminium, white, in set: outdoor housing (integrated with the camera), wall mount bracket Power Supply PoE (tylko z NV-8000PS/HP), 24 VAC (100 ~ 240 VAC/24 VAC PSU inset included) Surge protection TVS 6000 V	Audio Input/Output	1 x RCA/1 x RCA
Network Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s INSTALLATION PARAMETERS Dimensions (mm) 226 (Φ) x 363 (H) with bracket: 226 (W) x 425 (H) x 345 (L) Weight 5.1 kg with bracket: 6.1 kg Degree of Protection IP 66 (details in the user's manual) Enclosure aluminium, white, in set: outdoor housing (integrated with the camera), wall mount bracket Power Supply PoE (tylko z NV-8000PS/HP), 24 VAC (100 ~ 240 VAC/24 VAC PSU inset included) Surge protection TVS 6000 V	Alarm Input/Output	7 (NO/NC)/2 relay type
INSTALLATION PARAMETERS Dimensions (mm) 226 (Φ) x 363 (H) with bracket: 226 (W) x 425 (H) x 345 (L) Weight 5.1 kg with bracket: 6.1 kg Degree of Protection IP 66 (details in the user's manual) Enclosure aluminium, white, in set: outdoor housing (integrated with the camera), wall mount bracket Power Supply PoE (tylko z NV-8000PS/HP), 24 VAC (100 ~ 240 VAC/24 VAC PSU inset included) Surge protection TVS 6000 V	RS-485	yes
Dimensions (mm)226 (Φ) x 363 (H) with bracket: 226 (W) x 425 (H) x 345 (L)Weight5.1 kg with bracket: 6.1 kgDegree of ProtectionIP 66 (details in the user's manual)Enclosurealuminium, white, in set: outdoor housing (integrated with the camera), wall mount bracketPower SupplyPoE (tylko z NV-8000PS/HP), 24 VAC (100 ~ 240 VAC/24 VAC PSU inset included)Surge protectionTVS 6000 V	Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Weight 5.1 kg with bracket: 6.1 kg Degree of Protection IP 66 (details in the user's manual) Enclosure aluminium, white, in set: outdoor housing (integrated with the camera), wall mount bracket Power Supply PoE (tylko z NV-8000PS/HP), 24 VAC (100 ~ 240 VAC/24 VAC PSU inset included) Surge protection TVS 6000 V	INSTALLATION PARAMETERS	
Degree of Protection IP 66 (details in the user's manual) Enclosure aluminium, white, in set: outdoor housing (integrated with the camera), wall mount bracket Power Supply PoE (tylko z NV-8000PS/HP), 24 VAC (100 ~ 240 VAC/24 VAC PSU inset included) Surge protection TVS 6000 V	Dimensions (mm)	226 (Φ) x 363 (H) with bracket: 226 (W) x 425 (H) x 345 (L)
Enclosure aluminium, white, in set: outdoor housing (integrated with the camera), wall mount bracket Power Supply PoE (tylko z NV-8000PS/HP), 24 VAC (100 ~ 240 VAC/24 VAC PSU inset included) Surge protection TVS 6000 V	Weight	5.1 kg with bracket: 6.1 kg
camera), wall mount bracket Power Supply PoE (tylko z NV-8000PS/HP), 24 VAC (100 ~ 240 VAC/24 VAC PSU inset included) Surge protection TVS 6000 V	Degree of Protection	IP 66 (details in the user's manual)
set included) Surge protection TVS 6000 V	Enclosure	
	Power Supply	
Power Consumption 18 W • 46 W (IR and heater on)	Surge protection	TVS 6000 V
	Power Consumption	18 W • 46 W (IR and heater on)









Speed Dome IP Camera NVIP-3SD-8200/30

Operating Temperature	-30°C ~ 60°C
Humidity	max. 90%, relative (non-condensing)
Built-in Heater/Fan	yes/yes

Control of the camera using NV-KBD50 keyboard works in a limited range.









PoE Injector

NV-8000PS/HP



KEY FEATURES

•1 x 1000Mb/s High PoE

GENERAL

Device Type	High PoE injector	High PoE injector	
NETWORK			
Transmission Distance	1 ports in PoE mode: 100 m		
PoE standards	IEEE802.3 af, IEEE802.3 at		
PoE modes	Endspan (1,2+ / 3,6-), Midspan (4,5+ / 7,8-)		
Surge protection	Maximum voltage: 3kV		

INSTALLATION PARAMETERS

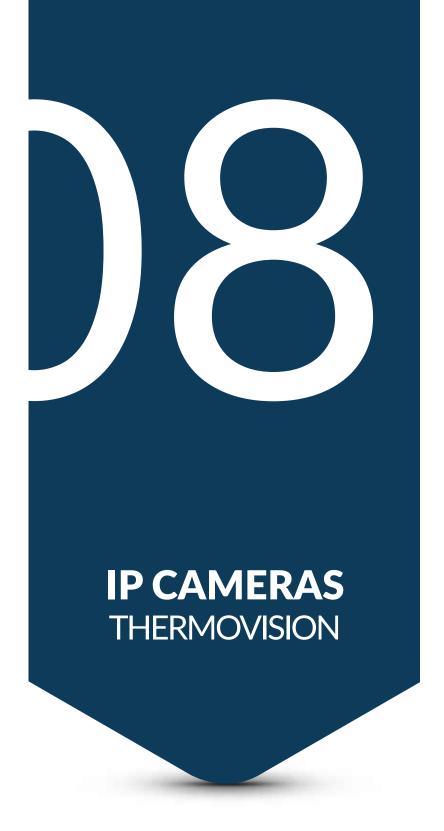
Case	Metal, color black
Dimensions (mm)	71 (W) x 37 (H) x 185 (L)
Weight	480 g
Power Supply	100 ~ 240 VAC, 50/60Hz
Power Consumption	64 W
Power Efficiency	60 W
Operating Temperature	-20°C ~ 60°C
Connector	Input: 1 x RJ45 / Output 1 x RJ45

Transmission distance values was achieved in a test environment. In different environment this value can change due to interferences or influence of other devices.











Thermal IP Bullet Camera

NVIP-H-8001/T





KEY FEATURES









- •Lens: thermal, f=8 mm/F1.0
- Video content analysis
- •SD card support
- •Temperature Measurment
- •Temperature Alarm
- •Ability to observe in total darkness

DIMENSIONS





110 mm (Ø)





388 mm

IMAGE - THERMAL MODULE

Image Sensor	Uncooled FPA Microbolometer
Number of Effective Pixels	400 (H) x 300 (V)
Pixel Size	17 μm
Spectral Range	8 - 14 μm
Thermal Sensitivity	40 mK
Thermovision Modes	White Hot, Black Hot, Rainbow, Ironbow, HSV, Autumn, Bone, Cool, Copper, Fire Hot, Pink, Spring, Summer, Winter, Jet, Flame, Rosebengal
Detection Temperature	-40°C ~ 150°C

LENS - THERMAL MODULE

Lens Type	f=8 mm/F1.0
Object Detection Range	235m - human , 722m - vehicle
Object Recognition Range	59m - human , 180m - vehicle

IMAGE

Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes

NETWORK

Stream Resolution	704 x 576, 704 x 480, 352 x 288 (CIF), 352 x 240
Frame Rate	25 fps for 704 x 576 • 30 fps for 704 x 480 and lower resolutions
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.264 Smart, H.265, H.265 Smart, MJPEG/G.711, RAW_PCM
Number of Simultaneous Conne	ctionsmax. 8
Bandwidth	15 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, RTSP, RTP, PPPoE, SMTP, RTCP, Unicast
ONVIF Protocol Support	Profile S
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS

OTHER FUNCTIONS

Temperature Measurement	yes
Temperature Alarm	yes
Temperature Measurement Zones	19 polygon, line, point
Privacy Zones	5









Thermal IP Bullet Camera NVIP-H-8001/T

Motion Detection	yes
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, double line cross, loiter, multi loiter, abnormal speed, converse, illegal parking
Image Processing	180° image rotation, mirror effect
Prealarm/Postalarm	up to 5 MB/up to 86400 s
System Reaction to Alarm Events	e-mail, saving file on FTP server, saving file on SD card, alarm output activation $% \left(1\right) =\left(1\right) \left(1\right$
INTERFACES	
Video Output	BNC, 1.0 Vp-p, 75 Ohm - maintenance only
Audio Input/Output	1 x RCA/1 x RCA
Alarm Input/Output	2 (NO/NC)/2
RS-485	yes
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	SD - capacity up to 128GB
INSTALLATION PARAMETERS	
Dimensions (mm)	with bracket: 110 (Φ) x 388 (L)
Weight	1.9 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	6 W
Operating Temperature	-40°C ~ 60°C
Humidity	max. 90%, relative (non-condensing)

 ${\it Motion \ Detection \ function \ and \ seven \ Temperature \ Measurement \ Zones \ available \ from \ firmware \ version \ v2.0.0603.1002.89.0.160.0.11.}$







Thermal IP Bullet Camera

NVIP-H-8011/T





KEY FEATURES









- •Lens: thermal, f=15 mm/F1.0
- Video content analysis
- •SD card support
- •Temperature Measurment
- •Temperature Alarm
- •Ability to observe in total darkness

DIMENSIONS





110 mm (Ø)





388 mm

IMAGE - THERMAL MODULE

Image Sensor	Uncooled FPA Microbolometer
Number of Effective Pixels	400 (H) x 300 (V)
Pixel Size	17 μm
Spectral Range	8 - 14 μm
Thermal Sensitivity	40 mK
Thermovision Modes	White Hot, Black Hot, Rainbow, Ironbow, HSV, Autumn, Bone, Cool, Copper, Fire Hot, Pink, Spring, Summer, Winter, Jet, Flame, Rosebengal
Detection Temperature	-40°C ~ 150°C

LENS - THERMAL MODULE

Lens Type	f=15 mm/F1.0
Object Detection Range	441m - human , 1353m - vehicle
Object Recognition Range	110m - human , 338m - vehicle

IMAGE

Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes

NETWORK

Stream Resolution	704 x 576, 704 x 480, 352 x 288 (CIF), 352 x 240
Frame Rate	25 fps for 704 x 576 • 30 fps for 704 x 480 and lower resolutions
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.264 Smart, H.265, H.265 Smart, MJPEG/G.711, RAW_PCM
Number of Simultaneous Conne	ctionsmax. 8
Bandwidth	15 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, RTSP, RTP, PPPoE, SMTP, RTCP, Unicast
ONVIF Protocol Support	Profile S
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS

OTHER FUNCTIONS

Temperature Measurement	yes
Temperature Alarm	yes
Temperature Measurement Zones	19 polygon, line, point
Privacy Zones	5









Thermal IP Bullet Camera NVIP-H-8011/T

Motion Detection	yes
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, double line cross, loiter, multi loiter, abnormal speed, converse, illegal parking
Image Processing	180° image rotation, mirror effect
Prealarm/Postalarm	up to 5 MB/up to 86400 s
System Reaction to Alarm Events	e-mail, saving file on FTP server, saving file on SD card, alarm output activation $% \left(1\right) =\left(1\right) \left(1\right$
INTERFACES	
Video Output	BNC, 1.0 Vp-p, 75 Ohm - maintenance only
Audio Input/Output	1 x RCA/1 x RCA
Alarm Input/Output	2 (NO/NC)/2
RS-485	yes
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	SD - capacity up to 128GB
INSTALLATION PARAMETERS	
Dimensions (mm)	with bracket: 110 (Φ) x 388 (L)
Weight	1.9 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	6 W
Operating Temperature	-40°C ~ 60°C
Humidity	max. 90%, relative (non-condensing)







Thermal IP Bullet Camera

NVIP-H-8021/T





KEY FEATURES









- •Lens: thermal, f=25 mm/F1.0
- Video content analysis
- •SD card support
- •Temperature Measurment
- •Temperature Alarm
- •Ability to observe in total darkness

DIMENSIONS





110 mm (Ø)





388 mm

IMAGE - THERMAL MODULE

Image Sensor	Uncooled FPA Microbolometer
Number of Effective Pixels	400 (H) x 300 (V)
Pixel Size	17 μm
Spectral Range	8 - 14 μm
Thermal Sensitivity	40 mK
Thermovision Modes	White Hot, Black Hot, Rainbow, Ironbow, HSV, Autumn, Bone, Cool, Copper, Fire Hot, Pink, Spring, Summer, Winter, Jet, Flame, Rosebengal
Detection Temperature	-40°C ~ 150°C

LENS - THERMAL MODULE

Lens Type	f=25 mm/F1.0
Object Detection Range	735m - human , 2255m - vehicle
Object Recognition Range	184m - human , 564m - vehicle

IMAGE

Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes

NETWORK

Stream Resolution	704 x 576, 704 x 480, 352 x 288 (CIF), 352 x 240
Frame Rate	25 fps for 704 x 576 • 30 fps for 704 x 480 and lower resolutions
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.264 Smart, H.265, H.265 Smart, MJPEG/G.711, RAW_PCM
Number of Simultaneous Conne	ctionsmax. 8
Bandwidth	15 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, RTSP, RTP, PPPoE, SMTP, RTCP, Unicast
ONVIF Protocol Support	Profile S
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS

OTHER FUNCTIONS

Temperature Measurement	yes
Temperature Alarm	yes
Temperature Measurement Zones	19 polygon, line, point
Privacy Zones	5









Thermal IP Bullet Camera NVIP-H-8021/T

Motion Detection	yes
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, double line cross, loiter, multi loiter, abnormal speed, converse, illegal parking
Image Processing	180° image rotation, mirror effect
Prealarm/Postalarm	up to 5 MB/up to 86400 s
System Reaction to Alarm Events	e-mail, saving file on FTP server, saving file on SD card, alarm output activation $% \left(1\right) =\left(1\right) \left(1\right$
INTERFACES	
Video Output	BNC, 1.0 Vp-p, 75 Ohm - maintenance only
Audio Input/Output	1 x RCA/1 x RCA
Alarm Input/Output	2 (NO/NC)/2
RS-485	yes
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	SD - capacity up to 128GB
INSTALLATION PARAMETERS	
Dimensions (mm)	with bracket: 110 (Φ) x 388 (L)
Weight	1.9 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	6 W
Operating Temperature	-40°C ~ 60°C
Humidity	max. 90%, relative (non-condensing)

 ${\it Motion \ Detection \ function \ and \ seven \ Temperature \ Measurement \ Zones \ available \ from \ firmware \ version \ v2.0.0603.1002.89.0.160.0.11.}$







Thermal IP Bullet Camera

NVIP-H-8031/T





KEY FEATURES









- •Lens: thermal, f=35 mm/F1.0
- Video content analysis
- •SD card support
- •Temperature Measurment
- •Temperature Alarm
- •Ability to observe in total darkness

DIMENSIONS





110 mm (Ø)





388 mm

IMAGE - THERMAL MODULE

Image Sensor	Uncooled FPA Microbolometer
Number of Effective Pixels	400 (H) x 300 (V)
Pixel Size	17 μm
Spectral Range	8 - 14 μm
Thermal Sensitivity	40 mK
Thermovision Modes	White Hot, Black Hot, Rainbow, Ironbow, HSV, Autumn, Bone, Cool, Copper, Fire Hot, Pink, Spring, Summer, Winter, Jet, Flame, Rosebengal
Detection Temperature	-40°C ~ 150°C

LENS - THERMAL MODULE

Lens Type	f=35 mm/F1.0
Object Detection Range	1029m - human , 3137m - vehicle
Object Recognition Range	257m - human , 789m - vehicle

IMAGE

Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes

NETWORK

Stream Resolution	704 x 576, 704 x 480, 352 x 288 (CIF), 352 x 240
Frame Rate	25 fps for 704 x 576 • 30 fps for 704 x 480 and lower resolutions
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.264 Smart, H.265, H.265 Smart, MJPEG/G.711, RAW_PCM
Number of Simultaneous Connec	ctionsmax. 8
Bandwidth	15 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, RTSP, RTP, PPPoE, SMTP, RTCP, Unicast
ONVIF Protocol Support	Profile S (ONVIF 2.4)
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS

OTHER FUNCTIONS

Temperature Measurement	yes
Temperature Alarm	yes
Temperature Measurement Zones	19 polygon, line, point
Privacy Zones	5









Thermal IP Bullet Camera NVIP-H-8031/T

Motion Detection	yes
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, double line cross, loiter, multi loiter, abnormal speed, converse, illegal parking
Image Processing	180° image rotation, mirror effect
Prealarm/Postalarm	up to 5 MB/up to 86400 s
System Reaction to Alarm Events	e-mail, saving file on FTP server, saving file on SD card, alarm output activation $% \left(1\right) =\left(1\right) \left(1\right$
INTERFACES	
Video Output	BNC, 1.0 Vp-p, 75 Ohm - maintenance only
Audio Input/Output	1 x RCA/1 x RCA
Alarm Input/Output	2 (NO/NC)/2
RS-485	yes
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	SD - capacity up to 128GB
INSTALLATION PARAMETERS	
Dimensions (mm)	with bracket: 110 (Φ) x 388 (L)
Weight	1.9 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	6 W
Operating Temperature	-40°C ~ 60°C
Humidity	max. 90%, relative (non-condensing)

 ${\it Motion \ Detection \ function \ and \ seven \ Temperature \ Measurement \ Zones \ available \ from \ firmware \ version \ v2.0.0603.1002.89.0.160.0.11.}$







Thermal IP Bullet Camera

NVIP-H-8041/T





KEY FEATURES









- •Lens: thermal, f=50 mm/F1.0
- Video content analysis
- •SD card support
- •Temperature Measurment
- •Temperature Alarm
- •Ability to observe in total darkness

DIMENSIONS



110 mm (Ø)





388 mm

IMAGE - THERMAL MODULE

Image Sensor	Uncooled FPA Microbolometer
Number of Effective Pixels	400 (H) x 300 (V)
Pixel Size	17 μm
Spectral Range	8 - 14 µm
Thermal Sensitivity	40 mK
Thermovision Modes	White Hot, Black Hot, Rainbow, Ironbow, HSV, Autumn, Bone, Cool, Copper, Fire Hot, Pink, Spring, Summer, Winter, Jet, Flame, Rosebengal
Detection Temperature	-40°C ~ 150°C

LENS - THERMAL MODULE

Lens Type	f=50 mm/F1.0
Object Detection Range	1471m - human , 4510m - vehicle
Object Recognition Range	368m - human , 1127m - vehicle

IMAGE

Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes

NETWORK

Multistreaming Mode 2 streams Video/Audio Compression H.264, H.264 Smart, H.265, H.265 Smart, MJPEG/G.711, RAW_PC Number of Simultaneous Connectionsmax. 8 Bandwidth 15 Mb/s in total Network Protocols Support HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, RTSP, RTP, PPPoE, SMTP, RTCP, Unicast ONVIF Protocol Support Profile S		
Multistreaming Mode 2 streams Video/Audio Compression H.264, H.264 Smart, H.265, H.265 Smart, MJPEG/G.711, RAW_PC Number of Simultaneous Connectionsmax. 8 Bandwidth 15 Mb/s in total Network Protocols Support HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, RTSP, RTP, PPPoE, SMTP, RTCP, Unicast ONVIF Protocol Support Profile S Camera Configuration from Internet Explorer browser • languages: Polish, English, Russ and others	Stream Resolution	704 x 576, 704 x 480, 352 x 288 (CIF), 352 x 240
Video/Audio Compression H.264, H.264 Smart, H.265, H.265 Smart, MJPEG/G.711, RAW_PC Number of Simultaneous Connectionsmax. 8 Bandwidth 15 Mb/s in total Network Protocols Support HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, RTSP, RTP, PPPoE, SMTP, RTCP, Unicast ONVIF Protocol Support Profile S Camera Configuration from Internet Explorer browser • languages: Polish, English, Russ and others	Frame Rate	25 fps for 704 x 576 • 30 fps for 704 x 480 and lower resolutions
Number of Simultaneous Connectionsmax. 8 Bandwidth 15 Mb/s in total Network Protocols Support HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, RTSP, RTP, PPPoE, SMTP, RTCP, Unicast ONVIF Protocol Support Profile S Camera Configuration from Internet Explorer browser • languages: Polish, English, Russ and others	Multistreaming Mode	2 streams
Bandwidth 15 Mb/s in total Network Protocols Support HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, RTSP, RTP, PPPoE, SMTP, RTCP, Unicast ONVIF Protocol Support Profile S Camera Configuration from Internet Explorer browser • languages: Polish, English, Russ and others	Video/Audio Compression	H.264, H.264 Smart, H.265, H.265 Smart, MJPEG/G.711, RAW_PCM
Network Protocols Support HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, RTSP, RTP, PPPoE, SMTP, RTCP, Unicast ONVIF Protocol Support Profile S Camera Configuration from Internet Explorer browser • languages: Polish, English, Russ and others	Number of Simultaneous Connection	nsmax. 8
PPPoE, SMTP, RTCP, Unicast ONVIF Protocol Support Profile S Camera Configuration from Internet Explorer browser • languages: Polish, English, Russ and others	Bandwidth	15 Mb/s in total
Camera Configuration from Internet Explorer browser • languages: Polish, English, Russ and others	Network Protocols Support	
and others	ONVIF Protocol Support	Profile S
Compatible Software NMS	Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
	Compatible Software	NMS

OTHER FUNCTIONS

Temperature Measurement	yes
Temperature Alarm	yes
Temperature Measurement Zones	19 polygon, line, point
Privacy Zones	5









Thermal IP Bullet Camera NVIP-H-8041/T

Motion Detection	yes
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, double line cross, loiter, multi loiter, abnormal speed, converse, illegal parking
Image Processing	180° image rotation, mirror effect
Prealarm/Postalarm	up to 5 MB/up to 86400 s
System Reaction to Alarm Events	e-mail, saving file on FTP server, saving file on SD card, alarm output activation $% \left(1\right) =\left(1\right) \left(1\right$
INTERFACES	
Video Output	BNC, 1.0 Vp-p, 75 Ohm - maintenance only
Audio Input/Output	1 x RCA/1 x RCA
Alarm Input/Output	2 (NO/NC)/2
RS-485	yes
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	SD - capacity up to 128GB
INSTALLATION PARAMETERS	
Dimensions (mm)	with bracket: 110 (Φ) x 388 (L)
Weight	1.9 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	6 W
Operating Temperature	-40°C ~ 60°C
Humidity	max. 90%, relative (non-condensing)

 ${\it Motion \ Detection \ function \ and \ seven \ Temperature \ Measurement \ Zones \ available \ from \ firmware \ version \ v2.0.0603.1002.89.0.160.0.11.}$









VISUAL MONITORING AND ACCESS CONTROL MANAGEMENT IN THE FACILITY









MANAGEMENT OG DISTRIBUTED SYSTEMS
GLOBAL FUNCTIONS
TIME & ATTENDANCE

INTEGRATION WITH NOVUS DEVICES PLAYBACK RECORDINGS
BIOMETRIC IDENTIFICATION







IP Recorder

NVR-8332P16-H4/F





KEY FEATURES





















- •16 x Ethernet PoE RJ-45 interface, 10/100 Mbit/s
- •Video and audio channels: 32
- •Supported protocols: ONVIF, RTSP
- •Recording speed up to 960 fps at 4000 x 3000
- •Supports resolution up to 4000 x 3000
- •Recorded stream size: 320 Mb/s in total from all cameras
- •Internal HDDs mount: 4
- •Monitor outputs: 2 (HDMI (4K UltraHD), VGA)
- •RACK mount
- •Support for NVIP-2H-8912M / TS cameras for body temperature measuring

DIMENSIONS



VIDEO

Maximum Supported Camera Resolution	4000 x 3000
Compression	H.264, H.264+, H.265, H.265+
Monitor Output	main (split screen, full screen): 1 x VGA, 1 x HDMI (4K UltraHD) (up to 2 monitors simultaneously)
Dualstreaming Support	yes
Fisheye Support	yes, 5000/8000 IP series cameras
AUDIO	
Audio Input/Output	- / 1 x line-out (RCA)

RECORDING

Recording Speed	640 fps (32 x 20 fps for 4000 x 3000)
Stream Size	320 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, alarm input, motion detection, intelligent image analysis functions

DISPLAY

Display Speed	960 fps (32 x 30 fps)
Dispiay Speed	300 lb2 (32 x 30 lb2)

PLAYBACK

Playback Speed	960 fps (32 x 30 fps)
Recorded Data Search	by date/time, events, related to face recognition

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	MP4

STORAGE

Internal Storage	available mount: 4 x HDD 3.5" 12 TB SATA
Total Internal Capacity	48 TB
RAID Mode	RAID5, RAID6, RAID10

ALARM

Internal Alarm Input/Output	2/1 relay type
Motion Detection	supports camera's motion detection
System Reaction to Alarm Events	buzzer, e-mail, alarm output activation, screen message, recording activation

INTELLIGENT IMAGE ANALYSIS









IP Recorder NVR-8332P16-H4/F

Supported Functions	Exception, Tripwire, Zone entrance, Abandoned Object, Object
	Disappearance, Double Line Cross, Face Recognition, Body

Temperature Alarm (support for up to two NVIP-2H-8912M/TS cameras for body temperature measuring)

PoE

•

NETWORK	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s • 16 x Ethernet F
	- RI-45 interface, 10/100 Mbit/s

Network Protocols Support HTTP, TCP/IP, IPv4, HTTPS, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, PPPoE, SMTP

ONVIF Protocol Support Profile S

PC/MAC Software Internet Explorer, N Control 8000/InView Pro 4

Number of Simultaneous Connectionsup to 8 clients

Bandwidth 320 Mb/s in total to all client workstations

PTZ

PTZ Functions pan/tilt/zoom, preset commands, patterns, tours

AUXILIARY INTERFACES

USB Ports 2 x USB 2.0 1 x USB 3.0

OPERATING SYSTEM

Operating System	Linux
OSD	languages: Polish, English, Russian, others
Control	PC mouse (in-set included), network
System Diagnostic	automatic control of: HDDs, camera connection loss
Security	password protection IP filtering

INSTALLATION PARAMETERS

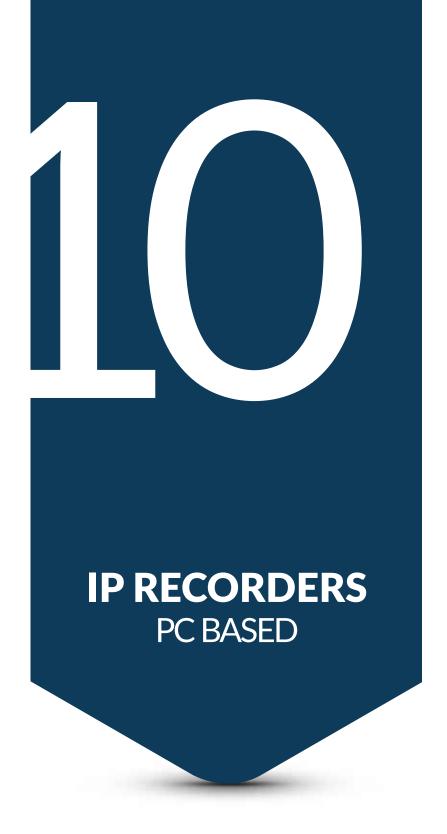
Dimensions (mm)	440 (W) x 70 (H) x 368 (D)
Weight	4.2 kg (without HDD)
Power Supply	100 ~ 240 VAC
Power Consumption	15 W + 160 W PoE
Operating Temperature	-10°C ~ 50°C
RACK Mount 19"	1.5U

Intelligent image analysis, dualstream mode, PTZ control, motion detection and alarm inputs / outputs functions depends on the functionality of the camera and the capabilities of the communication protocol. The recorder is dedicated to work with Novus 5000 and 8000 series IP cameras and achieves the best functionality with them. Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES tab. Display and playback speeds are achieved using dual stream.











NMS Client Station NMS CLIENT 3-T-III



KEY FEATURES







- •Monitoring of up to 42 channels
- •Supports resolution up to 4000 x 3000
- •Supports up to 3 monitors simultaneously
- •Operating system: Microsoft Windows 10 IoT
- •Recording and surveillance system: NMS (Novus Management System)
- •Compatible with all NMS Network Video Recorders
- •Integration with:recorders AHD NOVUS, systems of SSWiN DSC, systems of NMS ANPR, systems POS (Posnet, Upos i inne)

DIMENSIONS



VIDEO

IP Cameras	up to 42 channels at 640×480 resolution resolution using H.264 codec (video + audio) • up to 30 channels at 640×480 resolution resolution using H.265 codec (video + audio)
Maximum Supported Camera Resolution	4000 x 3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Protocols	Novus, ONVIF, RTSP
Dualstreaming Support	yes
DISPLAY	
Monitor Output	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D, (do 3 monitorów jednocześnie)
Maximum Resolution	3 x 4K UltraHD
AUDIO	
Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line output (3,5mm), 1 x HDMI, 1 x Display Port
PERFORMANCE - H.264	
2MPX IP Camera	Display up to: 42 sub streams or 13 main streams • Playback up to: 13 main streams
4MPX IP Camera	Display up to: 40 sub streams or 7 main streams • Playback up to: 7 main streams
5MPX IP Camera	Display up to: 35 sub streams or 5 main streams • Playback up to: 5 main streams
8MPX IP Camera	Display up to: 32 sub streams or 3 main streams • Playback up to: 3 main streams
12MPX IP Camera	Display up to: 26 sub streams or 3 main streams • Playback up to: 3 main streams
PERFORMANCE - H.265	
2MPX IP Camera	Display up to: 30 sub streams or 6 main streams • Playback up to: 6 main streams
4MPX IP Camera	Display up to: 30 sub streams or 3 main streams • Playback up to: 3 main streams
5MPX IP Camera	Display up to: 30 sub streams or 3 main streams • Playback up to: 3 main streams
8MPX IP Camera	Display up to: 28 sub streams or 2 main streams • Playback up to: 2 main streams
12MPX IP Camera	Display up to: 20 sub streams or 2 main streams • Playback up to: 2 main streams
PLAYBACK	









NMS Client Station NMS CLIENT 3-T-III

Recorded Data Search	by date/time, events, "Text-in"
BACKUP	
Backup Methods	USB port (HDD or Flash memory), network
STORAGE	
Internal storage for system	built-in: 1 x SSD NVMe
NETWORK	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000/2500 Mbit/s
Bandwidth	350 Mb/s in total from all NVRs
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, RTSP, UPnP, SNMP
Mobile applications	NMS Mobile
PTZ	
PTZ Functions	pan/tilt/zoom, preset commands, patterns, tours, auto-scans
AUXILIARY INTERFACES	
USB Ports	4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C
OPERATING SYSTEM	
Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Operation Mode	triplex
OSD	languages: Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included)
System Diagnostic	automatic control of: HDDs, temperature, fan, network
Security	password protection, IP filtering, MAC filtering, limiting the number of connections
INSTALLATION PARAMETERS	
Dimensions (mm)	185 (W) x 408 (H) x 475 (D)
Weight	10 kg
Power Supply/Power Consumption	built-in PSU 230 VAC/700 W
Power consumption/heatprint	250W/200W (without HDD for recording)
Operating Temperature	5°C ~ 35°C







NVSO Client Station NVSO CLIENT 3-T-III



KEY FEATURES







- •Monitoring of up to 42 channels
- •Supports resolution up to 4000 x 3000
- •Supports up to 3 monitors simultaneously
- •Operating system: Microsoft Windows 10 Pro
- •Recording and surveillance system: NMS (Novus Management System)
- •Compatible with all NMS Network Video Recorders
- •Integration with:recorders AHD NOVUS, systems of SSWiN DSC, systems of NMS ANPR, systems POS (Posnet, Upos i inne)

DIMENSIONS



VIDEO

IP Cameras	up to 42 channels at 640 x 480 resolution resolution using H.264 codec (video + audio) • up to 30 channels at 640 x 480 resolution resolution using H.265 codec (video + audio)
Maximum Supported Camera Resolution	4000 x 3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Protocols	Novus, ONVIF, RTSP
Dualstreaming Support	yes
DISPLAY	
Monitor Output	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D, (do 3 monitorów jednocześnie)
Maximum Resolution	3 x 4K UltraHD
AUDIO	
Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line output (3,5mm), 1 x HDMI, 1 x Display Port
PERFORMANCE - H.264	
2MPX IP Camera	Display up to: 42 sub streams or 13 main streams • Playback up to: 13 main streams
4MPX IP Camera	Display up to: 40 sub streams or 7 main streams • Playback up to: 7 main streams
5MPX IP Camera	Display up to: 35 sub streams or 5 main streams • Playback up to: 5 main streams
8MPX IP Camera	Display up to: 32 sub streams or 3 main streams \bullet Playback up to: 3 main streams
12MPX IP Camera	Display up to: 26 sub streams or 3 main streams \bullet Playback up to: 3 main streams
PERFORMANCE - H.265	
2MPX IP Camera	Display up to: 30 sub streams or 6 main streams • Playback up to: 6 main streams
4MPX IP Camera	Display up to: 30 sub streams or 3 main streams • Playback up to: 3 main streams
5MPX IP Camera	Display up to: 30 sub streams or 3 main streams • Playback up to: 3 main streams
8MPX IP Camera	Display up to: 28 sub streams or 2 main streams • Playback up to: 2 main streams
12MPX IP Camera	Display up to: 20 sub streams or 2 main streams • Playback up to: 2 main streams
PLAYBACK	









NVSO Client Station NVSO CLIENT 3-T-III

Recorded Data Search	by date/time, events, "Text-in"
BACKUP	
Backup Methods	USB port (HDD or Flash memory), network
STORAGE	
Internal storage for system	built-in: 1 x SSD NVMe
NETWORK	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000/2500 Mbit/s
Bandwidth	350 Mb/s in total from all NVRs
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, RTSP, UPnP, SNMP
Mobile applications	NMS Mobile
PTZ	
PTZ Functions	pan/tilt/zoom, preset commands, patterns, tours, auto-scans
AUXILIARY INTERFACES	
USB Ports	4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C
OPERATING SYSTEM	
Operating System	Microsoft Windows 10 Pro
Recording and Surveillance System	NMS (Novus Management System)
Operation Mode	triplex
OSD	languages: Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included)
System Diagnostic	automatic control of: HDDs, temperature, fan, network
Security	password protection, IP filtering, MAC filtering, limiting the number of connections
INSTALLATION PARAMETERS	
Dimensions (mm)	185 (W) x 408 (H) x 475 (D)
Weight	10 kg
Power Supply/Power Consumption	built-in PSU 230 VAC/700 W
Power consumption/heatprint	250W/200W (without HDD for recording)
Operating Temperature	5°C ~ 35°C







NMS Client Station

NMS CLIENT 3-R-III



KEY FEATURES







- •Monitoring of up to 42 channels
- •Supports resolution up to 4000 x 3000
- •Supports up to 3 monitors simultaneously
- •Operating system: Microsoft Windows 10 IoT
- •Recording and surveillance system: NMS (Novus Management System)
- Management System)
 Compatible with all NMS Network Video Recorders
- •Integration with:recorders AHD NOVUS, systems of SSWiN DSC, systems of NMS ANPR, systems POS (Posnet, Upos i inne)

DIMENSIONS



VIDEO

IP Cameras	up to 42 streams at 640 x 480 resolution resolution using H.264 codec (video + audio) • up to 30 streams at 640 x 480 resolution resolution using H.265 codec (video + audio)
Maximum Supported Camera Resolution	4000 x 3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Protocols	Novus, ONVIF, RTSP
Dualstreaming Support	yes
DISPLAY	
Monitor Output	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D, (do 3 monitorów jednocześnie)
Maximum Resolution	3 x 4K UltraHD
AUDIO	
Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line output (3,5mm), 1 x HDMI, 1 x Display Port
PERFORMANCE - H.264	
2MPX IP Camera	Display up to: 42 sub streams or 13 main streams • Playback up to: 13 main streams
4MPX IP Camera	Display up to: 40 sub streams or 7 main streams • Playback up to: 7 main streams
5MPX IP Camera	Display up to: 35 sub streams or 5 main streams • Playback up to: 5 main streams
8MPX IP Camera	Display up to: 32 sub streams or 3 main streams • Playback up to: 3 main streams
12MPX IP Camera	Display up to: 26 sub streams or 3 main streams • Playback up to: 3 main streams
PERFORMANCE - H.265	
2MPX IP Camera	Display up to: 30 sub streams or 6 main streams • Playback up to: 6 main streams
4MPX IP Camera	Display up to: 30 sub streams or 3 main streams • Playback up to: 3 main streams
5MPX IP Camera	Display up to: 30 sub streams or 3 main streams • Playback up to: 3 main streams
8MPX IP Camera	Display up to: 28 sub streams or 2 main streams • Playback up to: 2 main streams
12MPX IP Camera	Display up to: 20 sub streams or 2 main streams • Playback up to: 2 main streams









NMS Client Station NMS CLIENT 3-R-III

Recorded Data Search	by date/time, events, "Text-in"
BACKUP	
Backup Methods	USB port (HDD or Flash memory), network
STORAGE	
Internal storage for system	built-in: 1 x SSD NVMe
NETWORK	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000/2500 Mbit/s
Bandwidth	350 Mb/s in total from all NVRs
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, RTSP, UPnP, SNMP
Mobile applications	NMS Mobile
PTZ	
PTZ Functions	pan/tilt/zoom, preset commands, patterns, tours, auto-scans
AUXILIARY INTERFACES	
USB Ports	4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C
OPERATING SYSTEM	
Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Operation Mode	triplex
OSD	languages: Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included)
System Diagnostic	automatic control of: HDDs, temperature, fan, network
Security	password protection, IP filtering, MAC filtering, limiting the number of connections
INSTALLATION PARAMETERS	
Dimensions (mm)	427 (W) x 177 (H) x 450 (D)
RACK Mount 19"	4U
Weight	20 kg
Power Supply/Power Consumption	built-in PSU 230 VAC/700 W
Power consumption/heatprint	250W/200W (without HDD for recording)
Operating Temperature	5°C ~ 35°C







NVSO Client Station NVSO CLIENT 3-R-III



KEY FEATURES







- •Supports resolution up to 4000 x 3000
- •Operating system: Microsoft Windows 10 Pro
- Recording and surveillance system: NMS (Novus Management System)
- •Compatible with all NMS Network Video Recorders
- •Integration with:recorders AHD NOVUS, systems of SSWiN DSC, systems of NMS ANPR, systems POS (Posnet, Upos i inne)

DIMENSIONS



VIDEO

up to 42 channels at 640 x 480 resolution resolution using H.264 codec (video $+$ audio) • up to 30 channels at 640 x 480 resolution resolution using H.265 codec (video $+$ audio)
4000 x 3000
H.264, H.264+, H.265, H.265+, MJPEG
Novus, ONVIF, RTSP
yes
1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D, (do 3 monitorów jednocześnie)
3 x 4K UltraHD
1 x Line in (3,5mm), 1 x Mic in(3,5mm)
1 x Line output (3,5mm), 1 x HDMI, 1 x Display Port
Display up to: 42 sub streams or 13 main streams • Playback up to: 13 main streams
Display up to: 40 sub streams or 7 main streams • Playback up to: 7 main streams
Display up to: 35 sub streams or 5 main streams \bullet Playback up to: 5 main streams
Display up to: 32 sub streams or 3 main streams • Playback up to: 3 main streams
Display up to: 26 sub streams or 3 main streams • Playback up to: 3 main streams
Display up to: 30 sub streams or 6 main streams • Playback up to: 6 main streams
Display up to: 30 sub streams or 3 main streams • Playback up to: 3 main streams
Display up to: 30 sub streams or 3 main streams • Playback up to: 3 main streams
Display up to: 28 sub streams or 2 main streams • Playback up to: 2 main streams
Display up to: 20 sub streams or 2 main streams • Playback up to: 2
main streams









NVSO Client Station NVSO CLIENT 3-R-III

Recorded Data Search	by date/time, events, "Text-in"
BACKUP	
Backup Methods	USB port (HDD or Flash memory), network
STORAGE	
Internal storage for system	built-in: 1 x SSD NVMe
NETWORK	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000/2500 Mbit/s
Bandwidth	350 Mb/s in total from all NVRs
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, RTSP, UPnP, SNMP
Mobile applications	NMS Mobile
PTZ	
PTZ Functions	pan/tilt/zoom, preset commands, patterns, tours, auto-scans
AUXILIARY INTERFACES	
USB Ports	4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C
OPERATING SYSTEM	
Operating System	Microsoft Windows 10 Pro
Recording and Surveillance System	NMS (Novus Management System)
Operation Mode	triplex
OSD	languages: Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included)
System Diagnostic	automatic control of: HDDs, temperature, fan, network
Security	password protection, IP filtering, MAC filtering, limiting the number of connections $% \left(1\right) =\left(1\right) \left($
INSTALLATION PARAMETERS	
Dimensions (mm)	427 (W) x 177 (H) x 450 (D)
RACK Mount 19"	4U
Weight	20 kg
Power Supply/Power Consumption	built-in PSU 230 VAC/700 W
Dower concumention /boots rint	
Power consumption/heatprint	250W/200W (without HDD for recording)
Operating Temperature	250W/200W (without HDD for recording) 5°C ~ 35°C







NMS Client Station NMS CLIENT 5-T-III



KEY FEATURES







- •Monitoring of up to 50 channels
- •Supports resolution up to 4000 x 3000
- •Supports up to 3 monitors simultaneously
- •Operating system: Microsoft Windows 10 IoT
- •Recording and surveillance system: NMS (Novus Management System)
- •Compatible with all NMS Network Video Recorders
- •Integration with:recorders AHD NOVUS, systems of SSWiN DSC, systems of NMS ANPR, systems POS (Posnet, Upos i inne)

DIMENSIONS



VIDEO

IP Cameras	up to 50 channels at 640 x 480 resolution resolution using H.264 codec (video + audio) • up to 30 channels at 640 x 480 resolution resolution using H.265 codec (video + audio)
Maximum Supported Camera Resolution	4000 x 3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Protocols	Novus, ONVIF, RTSP
Dualstreaming Support	yes
DISPLAY	
Monitor Output	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D, (do 3 monitorów jednocześnie)
Maximum Resolution	3 x 4K UltraHD
AUDIO	
Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line output (3,5mm), 1 x HDMI, 1 x Display Port
PERFORMANCE - H.264	
2MPX IP Camera	Display up to: 50 sub streams or 12 main streams • Playback up to: 12 main streams
4MPX IP Camera	Display up to: 45 sub streams or 8 main streams • Playback up to: 8 main streams
5MPX IP Camera	Display up to: 45 sub streams or 6 main streams • Playback up to: 6 main streams
8MPX IP Camera	Display up to: 40 sub streams or 4 main streams • Playback up to: 4 main streams
12MPX IP Camera	Display up to: 35 sub streams or 4 main streams \bullet Playback up to: 4 main streams
PERFORMANCE - H.265	
2MPX IP Camera	Display up to: 30 sub streams or 8 main streams • Playback up to: 8 main streams
4MPX IP Camera	Display up to: 35 sub streams or 4 main streams • Playback up to: 4 main streams
5MPX IP Camera	Display up to: 35 sub streams or 4 main streams • Playback up to: 4 main streams
8MPX IP Camera	Display up to: 35 sub streams or 2 main streams • Playback up to: 2 main streams
12MPX IP Camera	Display up to: 20 sub streams or 2 main streams • Playback up to: 2 main streams
PLAYBACK	









NMS Client Station NMS CLIENT 5-T-III

Recorded Data Search	by date/time, events, "Text-in"
BACKUP	
Backup Methods	USB port (HDD or Flash memory), network
STORAGE	
Internal storage for system	built-in: 1 x SSD NVMe
NETWORK	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000/2500 Mbit/s
Bandwidth	350 Mb/s in total from all NVRs
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, RTSP, UPnP, SNMP
Mobile applications	NMS Mobile
PTZ	
PTZ Functions	pan/tilt/zoom, preset commands, patterns, tours, auto-scans
AUXILIARY INTERFACES	
USB Ports	4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C
OPERATING SYSTEM	
Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Operation Mode	triplex
OSD	languages: Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included)
System Diagnostic	automatic control of: HDDs, temperature, fan, network
Security	password protection, IP filtering, MAC filtering, limiting the number of connections
INSTALLATION PARAMETERS	
Dimensions (mm)	160 (W) x 428 (H) x 410 (D)
Weight	10 kg
Power Supply/Power Consumption	built-in PSU 230 VAC/700 W
Power consumption/heatprint	260W/210W (without HDD for recording)
Operating Temperature	5°C ~ 35°C







NVSO Client Station

NVSO CLIENT 5-T-III



KEY FEATURES

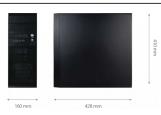






- •Monitoring of up to 50 channels
- •Supports resolution up to 4000 x 3000
- •Supports up to 3 monitors simultaneously
- •Operating system: Microsoft Windows 10 Pro
- •Recording and surveillance system: NMS (Novus Management System)
- •Compatible with all NMS Network Video Recorders •Integration with:recorders AHD NOVUS, systems of SSWiN DSC, systems of NMS ANPR, systems POS (Posnet, Upos i inne)

DIMENSIONS



VIDEO	
IP Cameras	up to 50 channels at 640 x 480 resolution resolution using H.264 codec (video $+$ audio) • up to 30 channels at 640 x 480 resolution resolution using H.265 codec (video $+$ audio)
Maximum Supported Camera Resolution	4000 x 3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Protocols	Novus, ONVIF, RTSP
Dualstreaming Support	yes
DISPLAY	
Monitor Output	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D, (do 3 monitorów jednocześnie)
Maximum Resolution	3 x 4K UltraHD
AUDIO	
Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
PERFORMANCE - H.264	
2MPX IP Camera	Display up to: 50 sub streams or 12 main streams • Playback up to: 12 main streams
4MPX IP Camera	Display up to: 45 sub streams or 8 main streams • Playback up to: 8 main streams
5MPX IP Camera	Display up to: 45 sub streams or 6 main streams • Playback up to: 6 main streams
8MPX IP Camera	Display up to: 40 sub streams or 4 main streams • Playback up to: 4 main streams
12MPX IP Camera	Display up to: 35 sub streams or 4 main streams • Playback up to: 4 main streams
PERFORMANCE - H.265	
2MPX IP Camera	Display up to: 30 sub streams or 8 main streams • Playback up to: 8 main streams
4MPX IP Camera	Display up to: 35 sub streams or 4 main streams • Playback up to: 4 main streams
5MPX IP Camera	Display up to: 35 sub streams or 4 main streams • Playback up to: 4 main streams
8MPX IP Camera	Display up to: 35 sub streams or 2 main streams • Playback up to: 2 main streams
12MPX IP Camera	Display up to: 20 sub streams or 2 main streams • Playback up to: 2 main streams
PLAYBACK	
Recorded Data Search	by date/time, events, "Text-in"









NVSO Client Station NVSO CLIENT 5-T-III

BACKUP	
Backup Methods	USB port (HDD or Flash memory), network
STORAGE	
Internal storage for system	built-in: 1 x SSD NVMe
NETWORK	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000/2500 Mbit/s
Bandwidth	350 Mb/s in total from all NVRs
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, RTSP, UPnP, SNMP
Mobile applications	NMS Mobile
PTZ	
PTZ Functions	pan/tilt/zoom, preset commands, patterns, tours, auto-scans
AUXILIARY INTERFACES	
USB Ports	4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C
OPERATING SYSTEM	
Operating System	Microsoft Windows 10 Pro
Recording and Surveillance System	NMS (Novus Management System)
Operation Mode	triplex
OSD	languages: Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included)
System Diagnostic	automatic control of: HDDs, temperature, fan, network
Security	password protection, IP filtering, MAC filtering, limiting the number of connections
INSTALLATION PARAMETERS	
Dimensions (mm)	160 (W) x 428 (H) x 410 (D)
Weight	10 kg
Power Supply/Power Consumption	built-in PSU 230 VAC/700 W
Power consumption/heatprint	260W/210W (without HDD for recording)
Operating Temperature	5°C ~ 35°C







NMS Client Station

NMS CLIENT 5-R-III



KEY FEATURES







- •Monitoring of up to 50 channels
- •Supports resolution up to 4000 x 3000
- •Supports up to 3 monitors simultaneously
- •Operating system: Microsoft Windows 10 IoT
- •Recording and surveillance system: NMS (Novus Management System)
- •Compatible with all NMS Network Video Recorders
- •Integration with:recorders AHD NOVUS, systems of SSWiN DSC, systems of NMS ANPR, systems POS (Posnet, Upos i inne)

DIMENSIONS



IP Cameras	up to 50 channels at 640 x 480 resolution resolution using H.264 codec (video + audio) • up to 30 channels at 640 x 480 resolution resolution using H.265 codec (video + audio)
Maximum Supported Camera Resolution	4000 x 3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Protocols	Novus, ONVIF, RTSP
Dualstreaming Support	yes
DISPLAY	
Monitor Output	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D, (do 3 monitorów jednocześnie)
Maximum Resolution	3 x 4K UltraHD
AUDIO	
Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line output (3,5mm), 1 x HDMI, 1 x Display Port
PERFORMANCE - H.264	
2MPX IP Camera	Display up to: 50 sub streams or 12 main streams • Playback up to: 12 main streams
4MPX IP Camera	Display up to: 45 sub streams or 8 main streams • Playback up to: 8 main streams
5MPX IP Camera	Display up to: 45 sub streams or 6 main streams • Playback up to: 6 main streams
8MPX IP Camera	Display up to: 40 sub streams or 4 main streams • Playback up to: 4 main streams
12MPX IP Camera	Display up to: 35 sub streams or 4 main streams • Playback up to: 4 main streams
PERFORMANCE - H.265	
2MPX IP Camera	Display up to: 30 sub streams or 8 main streams • Playback up to: 8 main streams
4MPX IP Camera	Display up to: 30 sub streams or 4 main streams • Playback up to: 4 main streams
5MPX IP Camera	Display up to: 35 sub streams or 4 main streams • Playback up to: 4 main streams
8MPX IP Camera	Display up to: 35 sub streams or 2 main streams • Playback up to: 2 main streams
12MPX IP Camera	Display up to: 20 sub streams or 2 main streams • Playback up to: 2 main streams
PLAYBACK	









NMS Client Station NMS CLIENT 5-R-III

Recorded Data Search	by date/time, events, "Text-in"
BACKUP	
Backup Methods	USB port (HDD or Flash memory), network
STORAGE	
Internal storage for system	built-in: 1 x SSD NVMe
NETWORK	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000/2500 Mbit/s
Bandwidth	350 Mb/s in total from all NVRs
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, RTSP, UPnP, SNMP
Mobile applications	NMS Mobile
PTZ	
PTZ Functions	pan/tilt/zoom, preset commands, patterns, tours, auto-scans
AUXILIARY INTERFACES	
USB Ports	4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C
OPERATING SYSTEM	
OPERATING SYSTEM Operating System	Microsoft Windows 10 IoT
	Microsoft Windows 10 IoT NMS (Novus Management System)
Operating System	
Operating System Recording and Surveillance System	NMS (Novus Management System)
Operating System Recording and Surveillance System Operation Mode	NMS (Novus Management System) triplex
Operating System Recording and Surveillance System Operation Mode OSD	NMS (Novus Management System) triplex languages: Polish, English, Russian, others
Operating System Recording and Surveillance System Operation Mode OSD Control	NMS (Novus Management System) triplex languages: Polish, English, Russian, others PC mouse and keyboard (in-set included)
Operating System Recording and Surveillance System Operation Mode OSD Control System Diagnostic	NMS (Novus Management System) triplex languages: Polish, English, Russian, others PC mouse and keyboard (in-set included) automatic control of: HDDs, temperature, fan, network password protection, IP filtering, MAC filtering, limiting the number of
Operating System Recording and Surveillance System Operation Mode OSD Control System Diagnostic Security	NMS (Novus Management System) triplex languages: Polish, English, Russian, others PC mouse and keyboard (in-set included) automatic control of: HDDs, temperature, fan, network password protection, IP filtering, MAC filtering, limiting the number of
Operating System Recording and Surveillance System Operation Mode OSD Control System Diagnostic Security INSTALLATION PARAMETERS	NMS (Novus Management System) triplex languages: Polish, English, Russian, others PC mouse and keyboard (in-set included) automatic control of: HDDs, temperature, fan, network password protection, IP filtering, MAC filtering, limiting the number of connections
Operating System Recording and Surveillance System Operation Mode OSD Control System Diagnostic Security INSTALLATION PARAMETERS Dimensions (mm)	NMS (Novus Management System) triplex languages: Polish, English, Russian, others PC mouse and keyboard (in-set included) automatic control of: HDDs, temperature, fan, network password protection, IP filtering, MAC filtering, limiting the number of connections 427 (W) x 177 (H) x 450 (D)
Operating System Recording and Surveillance System Operation Mode OSD Control System Diagnostic Security INSTALLATION PARAMETERS Dimensions (mm) RACK Mount 19"	NMS (Novus Management System) triplex languages: Polish, English, Russian, others PC mouse and keyboard (in-set included) automatic control of: HDDs, temperature, fan, network password protection, IP filtering, MAC filtering, limiting the number of connections 427 (W) x 177 (H) x 450 (D) 4U
Operating System Recording and Surveillance System Operation Mode OSD Control System Diagnostic Security INSTALLATION PARAMETERS Dimensions (mm) RACK Mount 19" Weight	NMS (Novus Management System) triplex languages: Polish, English, Russian, others PC mouse and keyboard (in-set included) automatic control of: HDDs, temperature, fan, network password protection, IP filtering, MAC filtering, limiting the number of connections 427 (W) x 177 (H) x 450 (D) 4U 20 kg
Operating System Recording and Surveillance System Operation Mode OSD Control System Diagnostic Security INSTALLATION PARAMETERS Dimensions (mm) RACK Mount 19" Weight Power Supply/Power Consumption	NMS (Novus Management System) triplex languages: Polish, English, Russian, others PC mouse and keyboard (in-set included) automatic control of: HDDs, temperature, fan, network password protection, IP filtering, MAC filtering, limiting the number of connections 427 (W) x 177 (H) x 450 (D) 4U 20 kg built-in PSU 230 VAC/700 W







NVSO Client Station NVSO CLIENT 5-R-III



KEY FEATURES







- •Monitoring of up to 42 channels
- •Supports resolution up to 4000 x 3000
- •Supports up to 3 monitors simultaneously
- •Operating system: Microsoft Windows 10 Pro
- Recording and surveillance system: NMS (Novus Management System)
- Management System)
 Compatible with all NMS Network Video Recorders
- Integration with:recorders AHD NOVUS, systems of SSWiN DSC, systems of NMS ANPR, systems POS (Posnet, Upos i inne)

DIMENSIONS



IP Cameras	up to 50 channels at 640 x 480 resolution resolution using H.264 codec (video + audio) • up to 30 channels at 640 x 480 resolution resolution using H.265 codec (video + audio)
Maximum Supported Camera Resolution	4000 x 3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Protocols	Novus, ONVIF, RTSP
Dualstreaming Support	yes
DISPLAY	
Monitor Output	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D, (do 3 monitorów jednocześnie)
Maximum Resolution	3 x 4K UltraHD
AUDIO	
Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line output (3,5mm), 1 x HDMI, 1 x Display Port
PERFORMANCE - H.264	
2MPX IP Camera	Display up to: 50 sub streams or 12 main streams • Playback up to: 12 main streams
4MPX IP Camera	Display up to: 45 sub streams or 8 main streams • Playback up to: 8 main streams
5MPX IP Camera	Display up to: 45 sub streams or 6 main streams • Playback up to: 6 main streams
8MPX IP Camera	Display up to: 40 sub streams or 4 main streams • Playback up to: 4 main streams
12MPX IP Camera	Display up to: 35 sub streams or 4 main streams • Playback up to: 4 main streams
PERFORMANCE - H.265	
2MPX IP Camera	Display up to: 30 sub streams or 8 main streams • Playback up to: 8 main streams
4MPX IP Camera	Display up to: 30 sub streams or 4 main streams • Playback up to: 4 main streams
5MPX IP Camera	Display up to: 35 sub streams or 4 main streams • Playback up to: 4 main streams
8MPX IP Camera	Display up to: 35 sub streams or 2 main streams • Playback up to: 2 main streams
12MPX IP Camera	Display up to: 20 sub streams or 2 main streams • Playback up to: 2 main streams









NVSO Client Station NVSO CLIENT 5-R-III

Recorded Data Search	by date/time, events, "Text-in"
BACKUP	
Backup Methods	USB port (HDD or Flash memory), network
васкир местоиз	OSD port (HDD of Flash memory), network
STORAGE	
Internal storage for system	built-in: 1 x SSD NVMe
NETWORK	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000/2500 Mbit/s
Bandwidth	350 Mb/s in total from all NVRs
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, RTSP, UPnP, SNMP
Mobile applications	NMS Mobile
PTZ	
PTZ Functions	pan/tilt/zoom, preset commands, patterns, tours, auto-scans
AUXILIARY INTERFACES	
USB Ports	4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C
OPERATING SYSTEM	
Operating System	Microsoft Windows 10 Pro
Recording and Surveillance System	NMS (Novus Management System)
Operation Mode	triplex
OSD	languages: Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included)
System Diagnostic	automatic control of: HDDs, temperature, fan, network
Security	password protection, IP filtering, MAC filtering, limiting the number of connections
INSTALLATION PARAMETERS	
Dimensions (mm)	427 (W) x 177 (H) x 450 (D)
RACK Mount 19"	4U
Weight	20 kg
Power Supply/Power Consumption	built-in PSU 230 VAC/700 W
Power consumption/heatprint	260W/210W (without HDD for recording)
Operating Temperature	5°C ~ 35°C







NMS Client Station NMS CLIENT 7-T-III



KEY FEATURES





KEY FEATURES

- •Monitoring of up to 70 channels
- •Supports resolution up to 4000 x 3000
- •Supports up to 6 monitors simultaneously
- •Operating system: Microsoft Windows 10 IoT
- •Recording and surveillance system: NMS (Novus
- Management System)
- •Compatible with all NMS Network Video Recorders
- •Integration with:recorders AHD NOVUS, systems of SSWiN DSC, systems of NMS ANPR, systems POS (Posnet, Upos i inne)

DIMENSIONS





IP Cameras	up to 70 channels at 640 x 480 resolution resolution using H.264 codec (video \pm audio) • up to 55 channels at 640 x 480 resolution resolution using H.265 codec (video \pm audio)
Maximum Supported Camera Resolution	4000 x 3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Protocols	Novus, ONVIF, RTSP
Dualstreaming Support	yes
DISPLAY	
Monitor Output	2 x HDMI 2.0b, 2 x Display Port 1.4, 2 x Dual link DVI-D, (do 6 monitorów jednocześnie)
Maximum Resolution	6 x 4K UltraHD
AUDIO	
Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line output (3,5mm), 2 x HDMI, 2 x Display Port
PERFORMANCE - H.264	
2MPX IP Camera	Display up to: 70 sub streams or 20 main streams • Playback up to: 20 main streams
4MPX IP Camera	Display up to: 70 sub streams or 13 main streams • Playback up to: 13 main streams
5MPX IP Camera	Display up to: 60 sub streams or 8 main streams • Playback up to: 8 main streams
8MPX IP Camera	Display up to: 40 sub streams or 5 main streams • Playback up to: 5 main streams
12MPX IP Camera	Display up to: 35 sub streams or 8 main streams • Playback up to: 8 main streams
PERFORMANCE - H.265	
2MPX IP Camera	Display up to: 55 sub streams or 15 main streams • Playback up to: 15 main streams
4MPX IP Camera	Display up to: 50 sub streams or 8 main streams • Playback up to: 8 main streams
5MPX IP Camera	Display up to: 60 sub streams or 5 main streams • Playback up to: 5 main streams
8MPX IP Camera	Display up to: 65 sub streams or 4 main streams • Playback up to: 4 main streams
12MPX IP Camera	Display up to: 32 sub streams or 4 main streams • Playback up to: 4 main streams
PLAYBACK	









NMS Client Station NMS CLIENT 7-T-III

Recorded Data Search	by date/time, events, "Text-in"
BACKUP	
Backup Methods	USB port (HDD or Flash memory), network
STORAGE	
Internal storage for system	built-in: 1 x SSD NVMe
NETWORK	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000/2500 Mbit/s
Bandwidth	350 Mb/s in total from all NVRs
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, FTP, DHCP, DNS, NTP, RTSP, UPnP, SMTP
Mobile applications	NMS Mobile
PTZ	
PTZ Functions	pan/tilt/zoom, preset commands, patterns, tours, auto-scans
AUXILIARY INTERFACES	
USB Ports	4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C
OPERATING SYSTEM	
Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Operation Mode	triplex
OSD	languages: Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), network, DCZ keyboard
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering, limiting the number of connections
INSTALLATION PARAMETERS	
Dimensions (mm)	185 (W) x 408 (H) x 475 (D)
Weight	10 kg
Power Supply/Power Consumption	built-in PSU 230 VAC/700 W
Power consumption/heatprint	350W/280W (without HDD for recording)
Operating Temperature	5°C ~ 35°C







NVSO Client Station

NVSO CLIENT 7-T-III



KEY FEATURES







- •Monitoring of up to 70 channels
- •Supports resolution up to 4000 x 3000
- •Supports up to 6 monitors simultaneously
- •Operating system: Microsoft Windows 10 Pro
- •Recording and surveillance system: NMS (Novus Management System)
- •Compatible with all NMS Network Video Recorders
- •Integration with:recorders AHD NOVUS, systems of SSWiN DSC, systems of NMS ANPR, systems POS (Posnet, Upos i inne)

DIMENSIONS





177 mm

VIDEO

VIDEO	
IP Cameras	up to 70 channels at 640 x 480 resolution resolution using H.264 codec (video \pm audio) • up to 55 channels at 640 x 480 resolution resolution using H.265 codec (video \pm audio)
Maximum Supported Camera Resolution	4000 x 3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Protocols	Novus, ONVIF, RTSP
Dualstreaming Support	yes
DISPLAY	
Monitor Output	2 x HDMI 2.0b, 2 x Display Port 1.4, 2 x Dual link DVI-D, (do 6 monitorów jednocześnie)
Maximum Resolution	6 x 4K UltraHD
AUDIO	
Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line output (3,5mm), 2 x HDMI, 2 x Display Port
PERFORMANCE - H.264	
2MPX IP Camera	Display up to: 70 sub streams or 20 main streams • Playback up to: 20 main streams
4MPX IP Camera	Display up to: 70 sub streams or 13 main streams • Playback up to: 13 main streams
5MPX IP Camera	Display up to: 60 sub streams or 8 main streams • Playback up to: 8 main streams
8MPX IP Camera	Display up to: 40 sub streams or 5 main streams • Playback up to: 5 main streams
12MPX IP Camera	Display up to: 35 sub streams or 8 main streams • Playback up to: 8 main streams
PERFORMANCE - H.265	
2MPX IP Camera	Display up to: 55 sub streams or 15 main streams • Playback up to: 15 main streams
4MPX IP Camera	Display up to: 50 sub streams or 8 main streams • Playback up to: 8 main streams
5MPX IP Camera	Display up to: 60 sub streams or 5 main streams • Playback up to: 5 main streams
8MPX IP Camera	Display up to: 65 sub streams or 4 main streams • Playback up to: 4 main streams
12MPX IP Camera	Display up to: 32 sub streams or 4 main streams • Playback up to: 4 main streams
PLAYBACK	









NVSO Client Station NVSO CLIENT 7-T-III

Recorded Data Search	by date/time, events, "Text-in"
BACKUP	
Backup Methods	USB port (HDD or Flash memory), network
STORAGE	
Internal storage for system	built-in: 1 x SSD NVMe
NETWORK	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000/2500 Mbit/s
Bandwidth	350 Mb/s in total from all NVRs
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, FTP, DHCP, DNS, NTP, RTSP, UPnP, SMTP
Mobile applications	NMS Mobile
PTZ	
PTZ Functions	pan/tilt/zoom, preset commands, patterns, tours, auto-scans
AUXILIARY INTERFACES	
USB Ports	4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C
OPERATING SYSTEM	
Operating System	Microsoft Windows 10 Pro
Recording and Surveillance System	NMS (Novus Management System)
Operation Mode	triplex
OSD	languages: Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), network, DCZ keyboard
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering, limiting the number of connections
INSTALLATION PARAMETERS	
Dimensions (mm)	185 (W) x 408 (H) x 475 (D)
Weight	10 kg
Power Supply/Power Consumption	built-in PSU 230 VAC/700 W
Power consumption/heatprint	350W/280W (without HDD for recording)
Operating Temperature	5°C ~ 35°C







NMS Client Station NMS CLIENT 7-R-III



KEY FEATURES





KEY FEATURES

- •Monitoring of up to 70 channels
- •Supports resolution up to 4000 x 3000
- •Supports up to 6 monitors simultaneously
- •Operating system: Microsoft Windows 10 IoT
- •Recording and surveillance system: NMS (Novus
- Management System)
- •Compatible with all NMS Network Video Recorders
- •Integration with:recorders AHD NOVUS, systems of SSWiN DSC, systems of NMS ANPR, systems POS (Posnet, Upos i inne)

DIMENSIONS



IP Cameras	up to 70 channels at 640 x 480 resolution resolution using H.264 codec (video \pm audio) • up to 55 channels at 640 x 480 resolution resolution using H.265 codec (video \pm audio)
Maximum Supported Camera Resolution	4000 x 3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Protocols	Novus, ONVIF, RTSP
Dualstreaming Support	yes
DISPLAY	
Monitor Output	2 x HDMI 2.0b, 2 x Display Port 1.4, 2 x Dual link DVI-D, (do 6 monitorów jednocześnie)
Maximum Resolution	6 x 4K UltraHD
AUDIO	
Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line output (3,5mm), 2 x HDMI, 2 x Display Port
PERFORMANCE - H.264	
2MPX IP Camera	Display up to: 70 sub streams or 20 main streams • Playback up to: 20 main streams
4MPX IP Camera	Display up to: 70 sub streams or 13 main streams • Playback up to: 13 main streams
5MPX IP Camera	Display up to: 60 sub streams or 8 main streams • Playback up to: 8 main streams
8MPX IP Camera	Display up to: 40 sub streams or 5 main streams • Playback up to: 5 main streams
12MPX IP Camera	Display up to: 35 sub streams or 8 main streams • Playback up to: 8 main streams
PERFORMANCE - H.265	
2MPX IP Camera	Display up to: 55 sub streams or 15 main streams • Playback up to: 15 main streams
4MPX IP Camera	Display up to: 50 sub streams or 8 main streams • Playback up to: 8 main streams
5MPX IP Camera	Display up to: 60 sub streams or 5 main streams • Playback up to: 5 main streams
8MPX IP Camera	Display up to: 65 sub streams or 4 main streams • Playback up to: 4 main streams
12MPX IP Camera	Display up to: 32 sub streams or 4 main streams • Playback up to: 4 main streams
PLAYBACK	









NMS Client Station NMS CLIENT 7-R-III

Recorded Data Search	by date/time, events, "Text-in"
BACKUP	
Backup Methods	USB port (HDD or Flash memory), network
STORAGE	
Internal storage for system	built-in: 1 x SSD NVMe
NETWORK	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000/2500 Mbit/s
Bandwidth	350 Mb/s in total from all NVRs
Network Protocols Support	HTTP, TCP/IP, IPv4, UDP, FTP, DHCP, DNS, NTP, RTSP, UPnP, SMTP
Mobile applications	NMS Mobile
PTZ	
PTZ Functions	pan/tilt/zoom, preset commands, patterns, tours, auto-scans
AUXILIARY INTERFACES	
USB Ports	4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C
OPERATING SYSTEM	
Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Operation Mode	triplex
OSD	languages: Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), network, DCZ keyboard
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering, limiting the number of connections
INSTALLATION PARAMETERS	
Dimensions (mm)	483 (W) x 177 (H) x 505 (D)
RACK Mount 19"	4U
Weight	25 kg
Power Supply/Power Consumption	built-in PSU 230 VAC/700 W
Power consumption/heatprint	350W/280W (without HDD for recording)
Operating Temperature	5°C ~ 35°C







NVSO Client Station NVSO CLIENT 7-R-III



KEY FEATURES







- •Monitoring of up to 70 channels
- •Supports resolution up to 4000 x 3000
- •Supports up to 6 monitors simultaneously
- •Operating system: Microsoft Windows 10 Pro
- Recording and surveillance system: NMS (Novus Management System)
- •Compatible with all NMS Network Video Recorders
- •Integration with:recorders AHD NOVUS, systems of SSWiN DSC, systems of NMS ANPR, systems POS (Posnet, Upos i inne)

DIMENSIONS



IP Cameras	up to 70 channels at 640 x 480 resolution resolution using H.264 codec (video + audio) • up to 55 channels at 640 x 480 resolution resolution using H.265 codec (video + audio)
Maximum Supported Camera Resolution	4000 x 3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Protocols	Novus, ONVIF, RTSP
Dualstreaming Support	yes
DISPLAY	
Monitor Output	2 x HDMI 2.0b, 2 x Display Port 1.4, 2 x Dual link DVI-D, (do 6 monitorów jednocześnie)
Maximum Resolution	6 x 4K UltraHD
AUDIO	
Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line output (3,5mm), 2 x HDMI, 2 x Display Port
PERFORMANCE - H.264	
2MPX IP Camera	Display up to: 70 sub streams or 20 main streams • Playback up to: 20 main streams
4MPX IP Camera	Display up to: 70 sub streams or 13 main streams • Playback up to: 13 main streams
5MPX IP Camera	Display up to: 60 sub streams or 8 main streams • Playback up to: 8 main streams
8MPX IP Camera	Display up to: 40 sub streams or 5 main streams • Playback up to: 5 main streams
12MPX IP Camera	Display up to: 35 sub streams or 8 main streams • Playback up to: 8 main streams
PERFORMANCE - H.265	
2MPX IP Camera	Display up to: 55 sub streams or 15 main streams • Playback up to: 15 main streams
4MPX IP Camera	Display up to: 50 sub streams or 8 main streams • Playback up to: 8 main streams
5MPX IP Camera	Display up to: 60 sub streams or 5 main streams • Playback up to: 5 main streams
8MPX IP Camera	Display up to: 65 sub streams or 4 main streams • Playback up to: 4 main streams
12MPX IP Camera	Display up to: 32 sub streams or 4 main streams • Playback up to: 4
	main streams









NVSO Client Station NVSO CLIENT 7-R-III

Recorded Data Search	by date/time, events, "Text-in"
BACKUP	
Backup Methods	USB port (HDD or Flash memory), network
STORAGE	
Internal storage for system	built-in: 1 x SSD NVMe
NETWORK	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000/2500 Mbit/s
Bandwidth	350 Mb/s in total from all NVRs
Network Protocols Support	HTTP, TCP/IP, IPv4, UDP, FTP, DHCP, DNS, NTP, RTSP, UPnP, SMTP
Mobile applications	NMS Mobile
PTZ	
PTZ Functions	pan/tilt/zoom, preset commands, patterns, tours, auto-scans
AUXILIARY INTERFACES	
USB Ports	4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C
OPERATING SYSTEM	
Operating System	Microsoft Windows 10 Pro
Recording and Surveillance System	NMS (Novus Management System)
Operation Mode	triplex
OSD	languages: Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), network, DCZ keyboard
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering, limiting the number of connections
INSTALLATION PARAMETERS	
Dimensions (mm)	483 (W) x 177 (H) x 505 (D)
RACK Mount 19"	4U
Weight	25 kg
Power Supply/Power Consumption	built-in PSU 230 VAC/700 W
Power consumption/heatprint	350W/280W (without HDD for recording)
Operating Temperature	5°C ~ 35°C







NMS IP Recorder

NMS NVR 7-4U-III



KEY FEATURES













- •Video and audio channels: 150
- •Recording speed up to 3750 fps at 1920 x 1080
- •Supports resolution up to 4000 x 3000
- Recorded stream size: 350 Mb/s in total from all cameras
- •Supports up to 3 monitors simultaneously
- •optional disk mounting: 6 x SATA 3,5"
- •Operating system: Microsoft Windows 10 IoT
- •Recording and surveillance system: NMS (Novus Management System)
- •Compatible with all NOVUS IP cameras

DIMENSIONS



IP Camera Recording	120 channels at 1920x1080 (video+audio) using H.264 codec • 150 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes
DISPLAY	
Monitor Output	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD
AUDIO	
Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line (3,5mm), 1 x HDMI, 1 x Display Port
Audio Input/Output in Cameras	Supports audio input/output build in cameras
PERFORMANCE - H.264	
2MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 70 sub streams or 20 main streams (while recording: 70 main streams) • Playback up to: 20 main streams (while recording: 70 main streams)
4MPX IP Camera	Recording up to: 70 main streams (while displaying: 8 sub streams) • Display up to: 70 sub streams or 13 main streams (while recording: 70 main streams) • Playback up to: 13 main streams (while recording: 70 main streams)
5MPX IP Camera	Recording up to: 60 main streams (while displaying: 8 sub streams) • Display up to: 60 sub streams or 8 main streams (while recording: 60 main streams) • Playback up to: 8 main streams (while recording: 60 main streams)
8MPX IP Camera	Recording up to: 40 main streams (while displaying: 8 sub streams) • Display up to: 40 sub streams or 5 main streams (while recording: 40 main streams) • Playback up to: 5 main streams (while recording: 40 main streams)
12MPX IP Camera	Recording up to: 35 main streams (while displaying: 8 sub streams) • Display up to: 35 sub streams or 8 main streams (while recording: 35 main streams) • Playback up to: 8 main streams (while recording: 35 main streams)
PERFORMANCE - H.265	
2MPX IP Camera	Recording up to: 150 main streams (while displaying: 8 sub streams) • Display up to: 55 sub streams or 15 main streams (while recording: 55 main streams) • Playback up to: 15 main streams (while recording: 55 main streams)









NMS IP Recorder NMS NVR 7-4U-III

Display up to: 60 sub streams or 5 main streams (while recording: 60 main streams) + Playback up to: 5 main streams (while recording: 60 main streams) BMPX IP Camera Recording up to: 70 main streams (while displaying: 8 sub streams) + Display up to: 65 sub streams or 4 main streams (while recording: 65 main streams) + Playback up to: 4 main streams (while recording: 65 main streams) + Playback up to: 4 main streams (while recording: 65 main streams) + Playback up to: 4 main streams (while recording: 65 main streams) + Playback up to: 4 main streams (while recording: 32 main streams) + Playback up to: 4 main streams (while recording: 32 main streams) + Playback up to: 4 main streams (while recording: 32 main streams) + Playback up to: 4 main streams (while recording: 32 main streams) + Playback up to: 4 main streams (while recording: 32 main streams) + Playback up to: 4 main streams (while recording: 32 main streams) + Playback up to: 4 main streams (while recording: 32 main streams) + Playback up to: 4 main streams (while recording: 32 main streams) + Playback up to: 4 main streams (while recording: 32 main streams) + Playback up to: 4 main streams (while recording: 32 main streams) + Playback up to: 4 main streams (while recording: 32 main streams) + Playback up to: 4 main streams (while recording: 32 main streams) + Playback up to: 4 main streams (while recording: 32 main streams (while recording: 32 main streams (while recording: 32 main streams) + Playback up to: 4 main streams (while recording: 32 main s	4MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 50 sub streams or 8 main streams (while recording: 50 main streams) • Playback up to: 8 main streams (while recording: 50 main streams)
Display up to: 65 sub streams or 4 main streams (while recording: 65 main streams) • Playback up to: 4 main streams (while recording: 65 main streams) Recording up to: 56 main streams (while displaying: 8 sub streams) • Display up to: 32 sub streams or 4 main streams (while recording: 32 main streams) • Playback up to: 4 main streams (while recording: 32 main streams) • Playback up to: 4 main streams (while recording: 32 main streams) RECORDING RECORDING Recording Mode Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm Individual settings for: each camera, each day of the week, specific days (holdays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes PLAYBACK Recorded Data Search By Date/Time, Events, "Text-in" BACKUP Backup Methods USB port (HDD for Flash drive), Network Backup File Format IPEG, BMP, AVI, NMS HDD Internal storage for system 1 x SSD NVMe Internal Storage for Recording 6 available bays for 3,5" HDD surveillance grade storage media ALARMS Alarm Input/output in cameras Motion detection support of motion detection built in cameras Wideo Analytics support of motion detection built in cameras Temperature alarm support of femperature alarm built in cameras Temperature alarm support of femperature alarm built in cameras Elicence plate recognition (LPR) support of selected image analysis functions available in the camera support of selected image analysis functions available in the camera support of selected image analysis functions available in the camera support of selected image analysis functions available in the camera support of selected image analysis functions available in the camera support of selected image analysis functions available in the camera support of selected image analysis functions available in the camera support of selected image analysis functions available in the camera support of selected image analysis functions avail	5MPX IP Camera	Display up to: 60 sub streams or 5 main streams (while recording: 60 main streams) • Playback up to: 5 main streams (while recording: 60
Display up to: 32 sub streams or 4 main streams (while recording: 32 main streams) • Playback up to: 4 main streams (while recording: 32 main streams) • Playback up to: 4 main streams (while recording: 32 main streams) RECORDING Recording Mode Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes PLAYBACK Recorded Data Search By Date/Time, Events, "Text-in" BACKUP Backup Methods Backup File Format JPEG, BMP, AVI, NMS HDD Internal storage for system 1 x SSD NVMe Internal Storage for Recording 6 available bays for 3,5" HDD surveillance grade storage media ALARMS Alarm Input/output in cameras support of alarm input and output built in cameras Wideo Analytics supported built in analytics in camera Supported built in analytics in camera Support of temperature alarm built in cameras Licence plate recognition (LPR) support of selected image analysis functions available in the camera System Reactions to Alarm Events NETWORK Network Interface 1 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s • 1 x Ethernet - zlaçze RJ45, 10/100/1000/2500 Mbit/s Network Throughput up to 350Mbit/s from all cameras • up to 350Mbit/s to all client stations • Max network throughput: 350Mbit/s for each network card NETY, SAMBA Compatible Mobile Applications	8MPX IP Camera	Display up to: 65 sub streams or 4 main streams (while recording: 65 main streams) • Playback up to: 4 main streams (while recording: 65
Recording Mode Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm Schedule individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes PLAYBACK Recorded Data Search By Date/Time, Events, "Text-in" BACKUP Backup Methods USB port (HDD lor Flash drive), Network Backup File Format JPEG, BMP, AVI, NMS HDD Internal storage for system 1 x SSD NVMe Internal Storage for Recording 6 available bays for 3,5" HDD surveillance grade storage media ALARMS Alarm Input/output in cameras Motion detection support of motion detection built in cameras Video Analytics support of temperature alarm built in cameras Licence plate recognition (LPR) System Reactions to Alarm Events NETWORK Network Interface 1 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s • 1 x Ethernet - złącze RJ45, 10/100/1000/2500 Mbit/s Network Throughput Licento Support HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, RTSP, RTP, SAMBA NMS Mobile NMS Mobile	12MPX IP Camera	Display up to: 32 sub streams or 4 main streams (while recording: 32 main streams) • Playback up to: 4 main streams (while recording: 32
motion detection, video analysis, POS, temerature alarm individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes PLAYBACK Recorded Data Search By Date/Time, Events, "Text-in" BACKUP Backup Methods Backup File Format JPEG, BMP, AVI, NMS HDD Internal storage for system 1 x SSD NVMe 6 available bays for 3,5" HDD surveillance grade storage media ALARMS Alarm Input/output in cameras Motion detection Support of motion detection built in cameras Video Analytics support of motion detection built in cameras Temperature alarm support of temperature alarm built in cameras Licence plate recognition (LPR) System Reactions to Alarm Events PLAYBACK Network Interface 1 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s • 1 x Ethernet - złącze RJ45, 10/100/1000/2500 Mbit/s Network Protocols Support HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, RTSP, RTP, SAMBA NMS Mobile NMS Mobile NMS Mobile	RECORDING	
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Recorded Data Search By Date/Time, Events, "Text-in" BACKUP Backup Methods Backup File Format JPEG, BMP, AVI, NMS HDD Internal storage for system 1 x SSD NVMe Internal Storage for Recording 6 available bays for 3,5" HDD surveillance grade storage media ALARMS Alarm Input/output in cameras support of alarm input and output built in cameras Motion detection support of motion detection built in cameras Video Analytics supported built in analytics in camera Temperature alarm support of temperature alarm built in cameras Licence plate recognition (LPR) System Reactions to Alarm Events e-mail, Screen Message, Recording Activation, PTZ NETWORK Network Interface 1 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s • 1 x Ethernet - zlącze RJ45, 10/100/1000/2500 Mbit/s Network Throughput up to 350Mbit/s from all cameras • up to 350Mbit/s for each network card Network Protocols Support HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, RTSP, RTP, SAMBA Compatible Mobile Applications NMS Mobile	DI VABVCA	
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Alarm Input/output in cameras support of alarm input and output built in cameras Motion detection support of motion detection built in cameras Video Analytics supported built in analytics in camera Temperature alarm support of temperature alarm built in cameras Licence plate recognition (LPR) support of selected image analysis functions available in the camera System Reactions to Alarm Events e-mail, Screen Message, Recording Activation, PTZ NETWORK Network Interface 1 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s • 1 x Ethernet - złącze RJ45, 10/100/1000/2500 Mbit/s Network Throughput up to 350Mbit/s from all cameras • up to 350Mbit/s to all client stations • Max network throughput: 350Mbit/s for each network card Network Protocols Support HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, RTSP, RTP, SAMBA Compatible Mobile Applications NMS Mobile	Internal Storage for Recording	6 available bays for 3,5" HDD surveillance grade storage media
Motion detection support of motion detection built in cameras Video Analytics supported built in analytics in camera support of temperature alarm built in cameras Licence plate recognition (LPR) support of selected image analysis functions available in the camera system Reactions to Alarm Events e-mail, Screen Message, Recording Activation, PTZ NETWORK Network Interface 1 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s • 1 x Ethernet - złącze RJ45, 10/100/1000/2500 Mbit/s Network Throughput up to 350Mbit/s from all cameras • up to 350Mbit/s to all client stations • Max network throughput: 350Mbit/s for each network card Network Protocols Support HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, RTSP, RTP, SAMBA Compatible Mobile Applications NMS Mobile	ALARMS	
Video Analytics supported built in analytics in camera support of temperature alarm built in cameras Licence plate recognition (LPR) support of selected image analysis functions available in the camera e-mail, Screen Message, Recording Activation, PTZ NETWORK Network Interface 1 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s • 1 x Ethernet - złącze RJ45, 10/100/1000/2500 Mbit/s Network Throughput up to 350Mbit/s from all cameras • up to 350Mbit/s to all client stations • Max network throughput: 350Mbit/s for each network card Network Protocols Support HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, RTSP, RTP, SAMBA Compatible Mobile Applications NMS Mobile	Alarm Input/output in cameras	support of alarm input and output built in cameras
Temperature alarm support of temperature alarm built in cameras Licence plate recognition (LPR) support of selected image analysis functions available in the camera System Reactions to Alarm Events e-mail, Screen Message, Recording Activation, PTZ NETWORK Network Interface 1 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s • 1 x Ethernet - złącze RJ45, 10/100/1000/2500 Mbit/s Network Throughput up to 350Mbit/s from all cameras • up to 350Mbit/s to all client stations • Max network throughput: 350Mbit/s for each network card Network Protocols Support HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, RTSP, RTP, SAMBA Compatible Mobile Applications NMS Mobile	Motion detection	support of motion detection built in cameras
Licence plate recognition (LPR) support of selected image analysis functions available in the camera e-mail, Screen Message, Recording Activation, PTZ NETWORK Network Interface 1 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s • 1 x Ethernet - złącze RJ45, 10/100/1000/2500 Mbit/s Network Throughput up to 350Mbit/s from all cameras • up to 350Mbit/s to all client stations • Max network throughput: 350Mbit/s for each network card Network Protocols Support HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, RTSP, RTP, SAMBA Compatible Mobile Applications NMS Mobile	Video Analytics	supported built in analytics in camera
System Reactions to Alarm Events e-mail, Screen Message, Recording Activation, PTZ NETWORK Network Interface 1 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s • 1 x Ethernet - złącze RJ45, 10/100/1000/2500 Mbit/s Network Throughput up to 350Mbit/s from all cameras • up to 350Mbit/s to all client stations • Max network throughput: 350Mbit/s for each network card Network Protocols Support HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, RTSP, RTP, SAMBA Compatible Mobile Applications NMS Mobile	Temperature alarm	support of temperature alarm built in cameras
Network Interface 1 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s • 1 x Ethernet - złącze RJ45, 10/100/1000/2500 Mbit/s Network Throughput up to 350Mbit/s from all cameras • up to 350Mbit/s to all client stations • Max network throughput: 350Mbit/s for each network card Network Protocols Support HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, RTSP, RTP, SAMBA Compatible Mobile Applications NMS Mobile	Licence plate recognition (LPR)	support of selected image analysis functions available in the camera
Network Interface 1 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s • 1 x Ethernet - złącze RJ45, 10/100/1000/2500 Mbit/s Network Throughput up to 350Mbit/s from all cameras • up to 350Mbit/s to all client stations • Max network throughput: 350Mbit/s for each network card Network Protocols Support HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, RTSP, RTP, SAMBA Compatible Mobile Applications NMS Mobile	System Reactions to Alarm Events	e-mail, Screen Message, Recording Activation, PTZ
złącze RJ45, 10/100/1000/2500 Mbit/s Network Throughput up to 350Mbit/s from all cameras • up to 350Mbit/s to all client stations • Max network throughput: 350Mbit/s for each network card Network Protocols Support HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, RTSP, RTP, SAMBA Compatible Mobile Applications NMS Mobile	NETWORK	
stations • Max network throughput: 350Mbit/s for each network card Network Protocols Support HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, RTSP, RTP, SAMBA Compatible Mobile Applications NMS Mobile	Network Interface	
RTP, SAMBA Compatible Mobile Applications NMS Mobile	Network Throughput	
	Network Protocols Support	
PTZ	Compatible Mobile Applications	NMS Mobile
	PTZ	









NMS IP Recorder NMS NVR 7-4U-III

pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris $% \left(1\right) =\left(1\right) \left(1\right)$ PTZ Functions

ADDITIONAL INTERFACES

USB Ports 4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C

OPERATING SYSTEM

Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections

INTEGRATION

Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS-ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), Integrated Devices ONVIF Devices, RTSP Devices

INSTALLATION PARAMETERS

482mm (W) x 178mm(H) x 505mm (D)
24 kg (without HDDs for recording)
built in 700W, with 230VAC input
280W/230W (without HDD for recording)
5°C ~ 35°C
4U

Attention:

To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.







NVSO IP Recorder

NVSO 7-4U-III



KEY FEATURES













- •Video and audio channels: 150
- •Recording speed up to 3750 fps at 1920 x 1080
- •Supports resolution up to 4000 x 3000
- •Recorded stream size: 350 Mb/s in total from all cameras
- •Supports up to 3 monitors simultaneously
- •optional disk mounting: 6 x SATA 3,5"
- •Operating system: Microsoft Windows 10 Pro
- •Recording and surveillance system: NMS (Novus Management System)
- •Compatible with all NOVUS IP cameras

DIMENSIONS



VIDEO	
IP Camera Recording	120 channels at 1920x1080 (video+audio) using H.264 codec • 150 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes
DISPLAY	
Monitor Output	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD
AUDIO	
Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line (3,5mm), 1 x HDMI, 1 x Display Port
Audio Input/Output in Cameras	Supports audio input/output build in cameras
PERFORMANCE - H.264	
2MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 70 sub streams or 20 main streams (while recording: 70 main streams) • Playback up to: 20 main streams (while recording: 70 main streams)
4MPX IP Camera	Recording up to: 70 main streams (while displaying: 8 sub streams) • Display up to: 70 sub streams or 13 main streams (while recording: 70 main streams) • Playback up to: 13 main streams (while recording: 70 main streams)
5MPX IP Camera	Recording up to: 60 main streams (while displaying: 8 sub streams) • Display up to: 60 sub streams or 8 main streams (while recording: 60 main streams) • Playback up to: 8 main streams (while recording: 60 main streams)
8MPX IP Camera	Recording up to: 40 main streams (while displaying: 8 sub streams) • Display up to: 40 sub streams or 5 main streams (while recording: 40 main streams) • Playback up to: 5 main streams (while recording: 40 main streams)
12MPX IP Camera	Recording up to: 35 main streams (while displaying: 8 sub streams) • Display up to: 35 sub streams or 8 main streams (while recording: 35 main streams) • Playback up to: 8 main streams (while recording: 35 main streams)
PERFORMANCE - H.265	
2MPX IP Camera	Recording up to: 150 main streams (while displaying: 8 sub streams) • Display up to: 55 sub streams or 15 main streams (while recording: 55 main streams) • Playback up to: 15 main streams (while recording: 55 main streams)









NVSO IP Recorder NVSO 7-4U-III

4MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 50 sub streams or 8 main streams (while recording: 50 main streams) • Playback up to: 8 main streams (while recording: 50 main streams)
5MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 60 sub streams or 5 main streams (while recording: 60 main streams) • Playback up to: 5 main streams (while recording: 60 main streams)
8MPX IP Camera	Recording up to: 70 main streams (while displaying: 8 sub streams) • Display up to: 65 sub streams or 4 main streams (while recording: 65 main streams) • Playback up to: 4 main streams (while recording: 65 main streams)
12MPX IP Camera	Recording up to: 56 main streams (while displaying: 8 sub streams) • Display up to: 32 sub streams or 4 main streams (while recording: 32 main streams) • Playback up to: 4 main streams (while recording: 32 main streams)
RECORDING	
Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s
PLAYBACK	
Recorded Data Search	By Date/Time, Events, "Text-in"
BACKUP	
Backup Methods	USB port (HDD lor Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS
HDD	
Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	6 available bays for 3,5" HDD surveillance grade storage media
ALARMS	
Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera
System Reactions to Alarm Events	e-mail, Screen Message, Recording Activation, PTZ
NETWORK	
Network Interface	1 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s • 1 x Ethernet - złącze RJ45, 10/100/1000/2500 Mbit/s
Network Throughput	up to 350Mbit/s from all cameras • up to 350Mbit/s to all client stations • Max network throughput: 350Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	NMS Mobile
PTZ	









NVSO IP Recorder NVSO 7-4U-III

pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris $% \left(1\right) =\left(1\right) \left(1\right)$ PTZ Functions

ADDITIONAL INTERFACES

USB Ports 4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C

OPERATING SYSTEM

Operating System	Microsoft Windows 10 Pro
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections

INTEGRATION

Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS-ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), Integrated Devices ONVIF Devices, RTSP Devices

INSTALLATION PARAMETERS

482mm (W) x 178mm(H) x 505mm (D)
24 kg (without HDDs for recording)
built in 700W, with 230VAC input
280W/230W (without HDD for recording)
5°C ~ 35°C
4U

Attention:

To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.







NMS IP Recorder

NMS NVR 3-T-III



KEY FEATURES







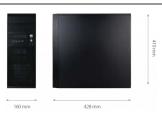






- •Video and audio channels: 140
- •Recording speed up to 3500 fps at 1920 x 1080
- •Supports resolution up to 4000 x 3000
- Recorded stream size: 350 Mb/s in total from all cameras
- •Supports up to 3 monitors simultaneously
- •optional disk mounting: 6 x SATA 3,5"
- •Operating system: Microsoft Windows 10 IoT
- •Recording and surveillance system: NMS (Novus Management System)
- •Compatible with all NOVUS IP cameras

DIMENSIONS



VIDEO	
IP Camera Recording	100 channels at 1920x1080 (video+audio) using H.264 codec • 140 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes
DISPLAY	
Monitor Output	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD
AUDIO	
Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line (3,5mm), 1 x HDMI, 1 x Display Port
Audio Input/Output in Cameras	Supports audio input/output build in cameras
PERFORMANCE - H.264	
2MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 42 sub streams or 13 main streams (while recording: 42 main streams) • Playback up to: 13 main streams (while recording: 42 main streams)
4MPX IP Camera	Recording up to: 65 main streams (while displaying: 8 sub streams) • Display up to: 40 sub streams or 7 main streams (while recording: 40 main streams) • Playback up to: 7 main streams (while recording: 40 main streams)
5MPX IP Camera	Recording up to: 60 main streams (while displaying: 8 sub streams) • Display up to: 35 sub streams or 5 main streams (while recording: 35 main streams) • Playback up to: 5 main streams (while recording: 35 main streams)
8MPX IP Camera	Recording up to: 36 main streams (while displaying: 8 sub streams) • Display up to: 32 sub streams or 3 main streams (while recording: 32 main streams) • Playback up to: 3 main streams (while recording: 32 main streams)
12MPX IP Camera	Recording up to: 32 main streams (while displaying: 8 sub streams) • Display up to: 26 sub streams or 3 main streams (while recording: 26 main streams) • Playback up to: 3 main streams (while recording: 26 main streams)
PERFORMANCE - H.265	
2MPX IP Camera	Recording up to: 140 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 6 main streams (while recording: 30 main streams) • Playback up to: 6 main streams (while recording: 30 main streams)









NMS IP Recorder NMS NVR 3-T-III

4MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 3 main streams (while recording: 30 main streams) • Playback up to: 3 main streams (while recording: 30 main streams)
5MPX IP Camera	Recording up to: 70 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 3 main streams (while recording: 30 main streams) • Playback up to: 3 main streams (while recording: 30 main streams)
8MPX IP Camera	Recording up to: 60 main streams (while displaying: 8 sub streams) • Display up to: 28 sub streams or 2 main streams (while recording: 28 main streams) • Playback up to: 2 main streams (while recording: 28 main streams)
12MPX IP Camera	Recording up to: 48 main streams (while displaying: 8 sub streams) • Display up to: 20 sub streams or 2 main streams (while recording: 20 main streams) • Playback up to: 2 main streams (while recording: 20 main streams)
RECORDING	
Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s
PLAYBACK	
Recorded Data Search	By Date/Time, Events, "Text-in"
BACKUP	
Backup Methods	USB port (HDD lor Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS
HDD	
Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	6 available bays for 3,5" HDD surveillance grade storage media
Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera
System Reactions to Alarm Events	e-mail, Screen Message, Recording Activation, PTZ
NETWORK	· · · · · · · · · · · · · · · · · · ·
Network Interface	1 x Ethernet - RJ45 interface, 10/100/1000/2500 Mbit/s
Network Throughput	up to 350Mbit/s from all cameras • up to 350Mbit/s to all client stations • Max network throughput: 350Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	NMS Mobile
PTZ	
PTZ Functions	pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris









NMS IP Recorder NMS NVR 3-T-III

ADDITIONAL INTERFACES

USB Ports

Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections
INTEGRATION	

4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C

Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS-ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other),

INSTALLATION PARAMETERS

Integrated Devices

Dimensions	160mm (W) x 428mm(H) x 410mm (D)
Weight	10 kg (without HDDs for recording)
Power Supply	built in 700W, with 230VAC input
Power consumption/heatprint	250W/200W (without HDD for recording)
Operating Temperature	5°C ~ 35°C

ONVIF Devices, RTSP Devices

Attention:

To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.







NVSO IP Recorder

NVSO 3-T-III



KEY FEATURES







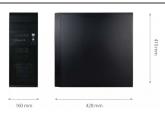






- •Video and audio channels: 140
- •Recording speed up to 3500 fps at 1920 x 1080
- •Supports resolution up to 4000 x 3000
- Recorded stream size: 350 Mb/s in total from all cameras
- •Supports up to 3 monitors simultaneously
- •optional disk mounting: 6 x SATA 3,5"
- •Operating system: Microsoft Windows 10 Pro
- •Recording and surveillance system: NMS (Novus Management System)
- •Compatible with all NOVUS IP cameras

DIMENSIONS



VIDEO	
IP Camera Recording	100 channels at 1920x1080 (video+audio) using H.264 codec • 140 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes
DISPLAY	
Monitor Output	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD
AUDIO	
Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line (3,5mm), 1 x HDMI, 1 x Display Port
Audio Input/Output in Cameras	Supports audio input/output build in cameras
PERFORMANCE - H.264	
2MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 42 sub streams or 13 main streams (while recording: 42 main streams) • Playback up to: 13 main streams (while recording: 42 main streams)
4MPX IP Camera	Recording up to: 65 main streams (while displaying: 8 sub streams) • Display up to: 40 sub streams or 7 main streams (while recording: 40 main streams) • Playback up to: 7 main streams (while recording: 40 main streams)
5MPX IP Camera	Recording up to: 60 main streams (while displaying: 8 sub streams) • Display up to: 35 sub streams or 5 main streams (while recording: 35 main streams) • Playback up to: 5 main streams (while recording: 35 main streams)
8MPX IP Camera	Recording up to: 36 main streams (while displaying: 8 sub streams) • Display up to: 32 sub streams or 3 main streams (while recording: 32 main streams) • Playback up to: 3 main streams (while recording: 32 main streams)
12MPX IP Camera	Recording up to: 32 main streams (while displaying: 8 sub streams) • Display up to: 26 sub streams or 3 main streams (while recording: 26 main streams) • Playback up to: 3 main streams (while recording: 26 main streams)
PERFORMANCE - H.265	
2MPX IP Camera	Recording up to: 140 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 6 main streams (while recording: 30 main streams) • Playback up to: 6 main streams (while recording: 30 main streams)









NVSO IP Recorder NVSO 3-T-III

4MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 3 main streams (while recording: 30 main streams) • Playback up to: 3 main streams (while recording: 30 main streams)
5MPX IP Camera	Recording up to: 70 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 3 main streams (while recording: 30 main streams) • Playback up to: 3 main streams (while recording: 30 main streams)
8MPX IP Camera	Recording up to: 60 main streams (while displaying: 8 sub streams) • Display up to: 28 sub streams or 2 main streams (while recording: 28 main streams) • Playback up to: 2 main streams (while recording: 28 main streams)
12MPX IP Camera	Recording up to: 48 main streams (while displaying: 8 sub streams) • Display up to: 20 sub streams or 2 main streams (while recording: 20 main streams) • Playback up to: 2 main streams (while recording: 20 main streams)
RECORDING	
Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s
PLAYBACK	
Recorded Data Search	By Date/Time, Events, "Text-in"
BACKUP	
Backup Methods	USB port (HDD lor Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS
HDD	1 CCD MVM-
Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	6 available bays for 3,5" HDD surveillance grade storage media
ALARMS	
Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera
System Reactions to Alarm Events	e-mail, Screen Message, Recording Activation, PTZ
NETWORK	
Network Interface	1 x Ethernet - RJ45 interface, 10/100/1000/2500 Mbit/s
Network Throughput	up to 350Mbit/s from all cameras • up to 350Mbit/s to all client stations • Max network throughput: 350Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	NMS Mobile
DT7	
PTZ	









NVSO IP Recorder NVSO 3-T-III

	RFACES

USB Ports

	, , , , , , , , , , , , , , , , , , , ,
OPERATING SYSTEM	
Operating System	Microsoft Windows 10 Pro
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections
INTEGRATION	
Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS-ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other),

4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C

INSTALLATION PARAMETERS

Dimensions	160mm (W) x 428mm(H) x 410mm (D)
Weight	10 kg (without HDDs for recording)
Power Supply	built in 700W, with 230VAC input
Power consumption/heatprint	250W/200W (without HDD for recording)
Operating Temperature	5°C ~ 35°C

ONVIF Devices, RTSP Devices

Attention.

To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.







NMS IP Recorder

NMS NVR 3-4U-III



KEY FEATURES













- •Video and audio channels: 140
- •Recording speed up to 3500 fps at 1920 x 1080
- •Supports resolution up to 4000 x 3000
- Recorded stream size: 350 Mb/s in total from all cameras
- •Supports up to 3 monitors simultaneously
- •optional disk mounting: 6 x SATA 3,5"
- •Operating system: Microsoft Windows 10 IoT
- •Recording and surveillance system: NMS (Novus Management System)
- •Compatible with all NOVUS IP cameras

DIMENSIONS



VIDEO		
IP Camera Recording	100 channels at 1920x1080 (video+audio) using H.264 codec • 140 channels at 1920x1080 (video+audio) using H.265 codec	
Maximum Supported Camera Resolution	4000x3000	
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG	
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye	
Dualstreaming Support	yes	
DISPLAY		
Monitor Output	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D (up to 3 monitors simultaneously)	
Maximum Resolution	3 x 4K UltraHD	
AUDIO		
Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)	
Audio Output	1 x Line (3,5mm), 1 x HDMI, 1 x Display Port	
Audio Input/Output in Cameras	Supports audio input/output build in cameras	
PERFORMANCE - H.264		
2MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 42 sub streams or 13 main streams (while recording: 42 main streams) • Playback up to: 13 main streams (while recording: 42 main streams)	
4MPX IP Camera	Recording up to: 65 main streams (while displaying: 8 sub streams) • Display up to: 40 sub streams or 7 main streams (while recording: 40 main streams) • Playback up to: 7 main streams (while recording: 40 main streams)	
5MPX IP Camera	Recording up to: 60 main streams (while displaying: 8 sub streams) • Display up to: 35 sub streams or 5 main streams (while recording: 35 main streams) • Playback up to: 5 main streams (while recording: 35 main streams)	
8MPX IP Camera	Recording up to: 36 main streams (while displaying: 8 sub streams) • Display up to: 32 sub streams or 3 main streams (while recording: 32 main streams) • Playback up to: 3 main streams (while recording: 32 main streams)	
12MPX IP Camera	Recording up to: 32 main streams (while displaying: 8 sub streams) • Display up to: 26 sub streams or 3 main streams (while recording: 26 main streams) • Playback up to: 3 main streams (while recording: 26 main streams)	
PERFORMANCE - H.265		
2MPX IP Camera	Recording up to: 140 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 6 main streams (while recording: 30 main streams) • Playback up to: 6 main streams (while recording: 30 main streams)	









NMS IP Recorder NMS NVR 3-4U-III

4MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 3 main streams (while recording: 30 main streams) • Playback up to: 3 main streams (while recording: 30 main streams)
5MPX IP Camera	Recording up to: 70 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 3 main streams (while recording: 30 main streams) • Playback up to: 3 main streams (while recording: 30 main streams)
8MPX IP Camera	Recording up to: 60 main streams (while displaying: 8 sub streams) • Display up to: 28 sub streams or 2 main streams (while recording: 28 main streams) • Playback up to: 2 main streams (while recording: 28 main streams)
12MPX IP Camera	Recording up to: 48 main streams (while displaying: 8 sub streams) • Display up to: 20 sub streams or 2 main streams (while recording: 20 main streams) • Playback up to: 2 main streams (while recording: 20 main streams)
RECORDING	
Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s
PLAYBACK	
Recorded Data Search	By Date/Time, Events, "Text-in"
BACKUP	
Backup Methods	USB port (HDD lor Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS
HDD	
Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	6 available bays for 3,5" HDD surveillance grade storage media
ALARMS	
Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera
System Reactions to Alarm Events	e-mail, Screen Message, Recording Activation, PTZ
NETWORK	
Network Interface	1 x Ethernet - RJ45 interface, 10/100/1000/2500 Mbit/s
Network Throughput	up to 350Mbit/s from all cameras • up to 350Mbit/s to all client
	stations • Max network throughput: 350Mbit/s for each network card
Network Protocols Support	stations • Max network throughput: 350Mbit/s for each network card HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Network Protocols Support Compatible Mobile Applications	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, DHCP, DNS, DDNS, NTP, RTSP,
	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, DHCP, DNS, DDNS, NTP, RTSP, SAMBA









NMS IP Recorder NMS NVR 3-4U-III

ADDITIONAL INTERFACES

USB Ports	4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C	
OPERATING SYSTEM		
Operating System	Microsoft Windows 10 IoT	
Recording and Surveillance System	NMS (Novus Management System)	
Additional Software	Internet Explorer	
Operation Mode	Pentaplex	
OSD	Polish, English, Russian, others	
Control	PC mouse and keyboard (in-set included), DCZ keyboard	
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss	
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections	
INTEGRATION		
Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS- ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices	
INSTALLATION PARAMETERS		
Dimensions	427mm (W) x 177mm(H) x 450mm (D)	
Weight	20 kg (without HDDs for recording)	
Power Supply	built in 700W, with 230VAC input	
Power consumption/heatprint	250W/200W (without HDD for recording)	
Operating Temperature	5°C ~ 35°C	
RACK Mount 19"	4U	

Attention:

To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.







NVSO IP Recorder

NVSO 3-4U-III



KEY FEATURES













- •Video and audio channels: 140
- •Recording speed up to 3500 fps at 1920 x 1080
- •Supports resolution up to 4000 x 3000
- Recorded stream size: 350 Mb/s in total from all cameras
- •Supports up to 3 monitors simultaneously
- •optional disk mounting: 6 x SATA 3,5"
- •Operating system: Microsoft Windows 10 Pro
- •Recording and surveillance system: NMS (Novus Management System)
- •Compatible with all NOVUS IP cameras

DIMENSIONS



IP Camera Recording	100 channels at 1920x1080 (video+audio) using H.264 codec • 140 channels at 1920x1080 (video+audio) using H.265 codec	
Maximum Supported Camera Resolution	4000x3000	
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG	
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye	
Dualstreaming Support	yes	
DISPLAY		
Monitor Output	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D (up to 3 monitors simultaneously)	
Maximum Resolution	3 x 4K UltraHD	
AUDIO		
Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)	
Audio Output	1 x Line (3,5mm), 1 x HDMI, 1 x Display Port	
Audio Input/Output in Cameras	Supports audio input/output build in cameras	
PERFORMANCE - H.264		
2MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 42 sub streams or 13 main streams (while recording: 42 main streams) • Playback up to: 13 main streams (while recording: 42 main streams)	
4MPX IP Camera	Recording up to: 65 main streams (while displaying: 8 sub streams) • Display up to: 40 sub streams or 7 main streams (while recording: 40 main streams) • Playback up to: 7 main streams (while recording: 40 main streams)	
5MPX IP Camera	Recording up to: 60 main streams (while displaying: 8 sub streams) • Display up to: 35 sub streams or 5 main streams (while recording: 35 main streams) • Playback up to: 5 main streams (while recording: 35 main streams)	
8MPX IP Camera	Recording up to: 36 main streams (while displaying: 8 sub streams) • Display up to: 32 sub streams or 3 main streams (while recording: 32 main streams) • Playback up to: 3 main streams (while recording: 32 main streams)	
12MPX IP Camera	Recording up to: 32 main streams (while displaying: 8 sub streams) • Display up to: 26 sub streams or 3 main streams (while recording: 26 main streams) • Playback up to: 3 main streams (while recording: 26 main streams)	
PERFORMANCE - H.265		
2MPX IP Camera	Recording up to: 140 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 6 main streams (while recording: 30 main streams) • Playback up to: 6 main streams (while recording: 30 main streams)	









NVSO IP Recorder NVSO 3-4U-III

4MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 3 main streams (while recording: 30 main streams) • Playback up to: 3 main streams (while recording: 30 main streams)
5MPX IP Camera	Recording up to: 70 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 3 main streams (while recording: 30 main streams) • Playback up to: 3 main streams (while recording: 30 main streams)
8MPX IP Camera	Recording up to: 60 main streams (while displaying: 8 sub streams) • Display up to: 28 sub streams or 2 main streams (while recording: 28 main streams) • Playback up to: 2 main streams (while recording: 28 main streams)
12MPX IP Camera	Recording up to: 48 main streams (while displaying: 8 sub streams) • Display up to: 20 sub streams or 2 main streams (while recording: 20 main streams) • Playback up to: 2 main streams (while recording: 20 main streams)
RECORDING	
Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s
PLAYBACK	
Recorded Data Search	By Date/Time, Events, "Text-in"
BACKUP	
Backup Methods	USB port (HDD lor Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS
HDD	
Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	6 available bays for 3,5" HDD surveillance grade storage media
ALARMS	
Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera
System Reactions to Alarm Events	e-mail, Screen Message, Recording Activation, PTZ
NETWORK	
Network Interface	1 x Ethernet - RJ45 interface, 10/100/1000/2500 Mbit/s
Network Throughput	up to 350Mbit/s from all cameras • up to 350Mbit/s to all client stations • Max network throughput: 350Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	KTSF, SAMBA
companion resident principles	NMS Mobile
PTZ	









NVSO IP Recorder NVSO 3-4U-III

VDD	ITIONA	INTFRE	VCEC

USB Ports	4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C
OPERATING SYSTEM	
Operating System	Microsoft Windows 10 Pro
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections
INTEGRATION	
Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS- ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices
INSTALLATION PARAMETERS	
Dimensions	427mm (W) x 177mm(H) x 450mm (D)
Weight	20 kg (without HDDs for recording)
Power Supply	built in 700W, with 230VAC input
Power consumption/heatprint	250W/200W (without HDD for recording)
Operating Temperature	5°C ~ 35°C
RACK Mount 19"	4U

Attention:

To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.







NMS IP Recorder

NMS NVR 5-4U-III



KEY FEATURES













- •Video and audio channels: 150
- •Recording speed up to 3750 fps at 1920 x 1080
- •Supports resolution up to 4000 x 3000
- Recorded stream size: 350 Mb/s in total from all cameras
- •Supports up to 3 monitors simultaneously
- •optional disk mounting: 6 x SATA 3,5"
- •Operating system: Microsoft Windows 10 IoT
- •Recording and surveillance system: NMS (Novus Management System)
- •Compatible with all NOVUS IP cameras

DIMENSIONS



IP Camera Recording	120 channels at 1920x1080 (video+audio) using H.264 codec • 150 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes
DISPLAY	
Monitor Output	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD
AUDIO	
Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line (3,5mm), 1 x HDMI, 1 x Display Port
Audio Input/Output in Cameras	Supports audio input/output build in cameras
PERFORMANCE - H.264	
2MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 50 sub streams or 12 main streams (while recording: 50 main streams) • Playback up to: 12 main streams (while recording: 50 main streams)
4MPX IP Camera	Recording up to: 70 main streams (while displaying: 8 sub streams) • Display up to: 45 sub streams or 9 main streams (while recording: 45 main streams) • Playback up to: 8 main streams (while recording: 45 main streams)
5MPX IP Camera	Recording up to: 60 main streams (while displaying: 8 sub streams) • Display up to: 45 sub streams or 6 main streams (while recording: 45 main streams) • Playback up to: 6 main streams (while recording: 45 main streams)
8MPX IP Camera	Recording up to: 40 main streams (while displaying: 8 sub streams) • Display up to: 40 sub streams or 4 main streams (while recording: 4 main streams) • Playback up to: 4 main streams (while recording: 40 main streams)
12MPX IP Camera	Recording up to: 35 main streams (while displaying: 8 sub streams) • Display up to: 35 sub streams or 4 main streams (while recording: 35 main streams) • Playback up to: 4 main streams (while recording: 35 main streams)
PERFORMANCE - H.265	
2MPX IP Camera	Recording up to: 150 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 8 main streams (while recording: 30 main streams) • Playback up to: 8 main streams (while recording: 30 main streams)









NMS IP Recorder NMS NVR 5-4U-III

Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 4 main streams (while recording: 30 main streams) • Playback up to: 4 main streams (while recording: 30 main streams)
Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 35 sub streams or 4 main streams (while recording: 35 main streams) • Playback up to: 4 main streams (while recording: 34 main streams)
Recording up to: 75 main streams (while displaying: 8 sub streams) • Display up to: 35 sub streams or 2 main streams (while recording: 35 main streams) • Playback up to: 2 main streams (while recording: 35 main streams)
Recording up to: 56 main streams (while displaying: 8 sub streams) • Display up to: 20 sub streams or 2 main streams (while recording: 20 main streams) • Playback up to: 2 main streams (while recording: 20 main streams)
Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm
individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Up to: 30s / Up to: 600s
By Date/Time, Events, "Text-in"
USB port (HDD lor Flash drive), Network
JPEG, BMP, AVI, NMS
1 x SSD NVMe
6 available bays for 3,5" HDD surveillance grade storage media
support of alarm input and output built in cameras
support of motion detection built in cameras
supported built in analytics in camera
support of temperature alarm built in cameras
support of selected image analysis functions available in the camera
1 x Ethernet - RJ45 interface, 10/100/1000/2500 Mbit/s
up to 350Mbit/s from all cameras • up to 350Mbit/s to all client stations • Max network throughput: 350Mbit/s for each network card
HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
NMS Mobile
pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris









NMS IP Recorder NMS NVR 5-4U-III

ADDITIONAL INTERFACES

USB Ports	4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C
OPERATING SYSTEM	
Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections
INTEGRATION	
Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS- ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices
INSTALLATION PARAMETERS	
Dimensions	427mm (W) x 177mm(H) x 450mm (D)
Weight	20 kg (without HDDs for recording)
Power Supply	built in 700W, with 230VAC input
Power consumption/heatprint	260W/210W (without HDD for recording)
Operating Temperature	5°C ~ 35°C
RACK Mount 19"	4U

Attention:

To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.







NVSO IP Recorder

NVSO 5-4U-III



KEY FEATURES













- •Video and audio channels: 150
- •Recording speed up to 3750 fps at 1920 x 1080
- •Supports resolution up to 4000 x 3000
- Recorded stream size: 350 Mb/s in total from all cameras
- •Supports up to 3 monitors simultaneously
- •optional disk mounting: 6 x SATA 3,5"
- •Operating system: Microsoft Windows 10 Pro
- •Recording and surveillance system: NMS (Novus Management System)
- •Compatible with all NOVUS IP cameras

DIMENSIONS



VIDEO

120 channels at 1920x1080 (video+audio) using H.264 codec • 150	
120 channels at 1920x1080 (video+audio) using H.264 codec • 150 channels at 1920x1080 (video+audio) using H.265 codec	
4000×3000	
H.264, H.264+, H.265, H.265+, MJPEG	
Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye	
yes	
1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D (up to 3 monitors simultaneously)	
3 x 4K UltraHD	
1 x Line in (3,5mm), 1 x Mic in(3,5mm)	
1 x Line (3,5mm), 1 x HDMI, 1 x Display Port	
Supports audio input/output build in cameras	
Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 50 sub streams or 12 main streams (while recording 50 main streams) • Playback up to: 12 main streams (while recording: 50 main streams)	
Recording up to: 70 main streams (while displaying: 8 sub streams) Display up to: 45 sub streams or 8 main streams (while recording: 45 main streams) • Playback up to: 8 main streams (while recording: 45 main streams)	
Recording up to: 60 main streams (while displaying: 8 sub streams) • Display up to: 45 sub streams or 6 main streams (while recording: 45 main streams) • Playback up to: 6 main streams (while recording: 45 main streams)	
Recording up to: 40 main streams (while displaying: 8 sub streams) • Display up to: 40 sub streams or 4 main streams (while recording: 40 main streams) • Playback up to: 4 main streams (while recording: 40 main streams)	
Recording up to: 35 main streams (while displaying: 8 sub streams) Display up to: 35 sub streams or 4 main streams (while recording: 35 main streams) • Playback up to: 4 main streams (while recording: 35 main streams)	
Recording up to: 150 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 8 main streams (while recording: 30 main streams) • Playback up to: 8 main streams (while recording: 30 main streams)	









NVSO IP Recorder NVSO 5-4U-III

4MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 4 main streams (while recording: 30 main streams) • Playback up to: 4 main streams (while recording: 30 main streams)	
5MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 35 sub streams or 4 main streams (while recording: 35 main streams) • Playback up to: 4 main streams (while recording: 35 main streams)	
8MPX IP Camera	Recording up to: 75 main streams (while displaying: 8 sub streams) of Display up to: 35 sub streams or 2 main streams (while recording: 35 main streams) • Playback up to: 2 main streams (while recording: 35 main streams)	
12MPX IP Camera	Recording up to: 56 main streams (while displaying: 8 sub streams) • Display up to: 20 sub streams or 2 main streams (while recording: 20 main streams) • Playback up to: 2 main streams (while recording: 20 main streams)	
RECORDING		
Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm	
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes	
Prealarm/Postalarm	Up to: 30s / Up to: 600s	
PLAYBACK		
Recorded Data Search	By Date/Time, Events, "Text-in"	
BACKUP		
Backup Methods	USB port (HDD lor Flash drive), Network	
Backup File Format	JPEG, BMP, AVI, NMS	
HDD		
Internal storage for system	1 x SSD NVMe	
Internal Storage for Recording	6 available bays for 3,5" HDD surveillance grade storage media	
ALARMS		
Alarm Input/output in cameras	support of alarm input and output built in cameras	
Motion detection	support of motion detection built in cameras	
Video Analytics	supported built in analytics in camera	
Temperature alarm	support of temperature alarm built in cameras	
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera	
System Reactions to Alarm Events	e-mail, Screen Message, Recording Activation, PTZ	
NETWORK		
Network Interface	1 x Ethernet - RJ45 interface, 10/100/1000/2500 Mbit/s	
Network Throughput	up to 350Mbit/s from all cameras • up to 350Mbit/s to all client stations • Max network throughput: 350Mbit/s for each network card	
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA	
Compatible Mobile Applications	NMS Mobile	
PTZ		









NVSO IP Recorder NVSO 5-4U-III

USB Ports	4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C	
OPERATING SYSTEM		
Operating System	Microsoft Windows 10 Pro	
Recording and Surveillance System	NMS (Novus Management System)	
Additional Software	Internet Explorer	
Operation Mode	Pentaplex	
OSD	Polish, English, Russian, others	
Control	PC mouse and keyboard (in-set included), DCZ keyboard	
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss	
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections	
INTEGRATION		
Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS- ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other ONVIF Devices, RTSP Devices	
INSTALLATION PARAMETERS		
Dimensions	427mm (W) x 177mm(H) x 450mm (D)	
Weight	20 kg (without HDDs for recording)	
Power Supply	built in 700W, with 230VAC input	
Power consumption/heatprint	260W/210W (without HDD for recording)	
Operating Temperature	5°C ~ 35°C	
RACK Mount 19"	4U	

Attention:

To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.







NMS IP Recorder

NMS NVR 5-T-III



KEY FEATURES













- •Video and audio channels: 150
- •Recording speed up to 3750 fps at 1920 x 1080
- •Supports resolution up to 4000 x 3000
- Recorded stream size: 350 Mb/s in total from all cameras
- Supports up to 3 monitors simultaneously
- •optional disk mounting: 6 x SATA 3,5"
- •Operating system: Microsoft Windows 10 IoT
- •Recording and surveillance system: NMS (Novus Management System)
- •Compatible with all NOVUS IP cameras
- •Anti-vibration bracket in-set included

DIMENSIONS



VIDEO

VIDEO		
IP Camera Recording	120 channels at 1920x1080 (video+audio) using H.264 codec • 150 channels at 1920x1080 (video+audio) using H.265 codec	
Maximum Supported Camera Resolution	4000x3000	
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG	
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye	
Dualstreaming Support	yes	
DISPLAY		
Monitor Output	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D (up to 3 monitors simultaneously)	
Maximum Resolution	3 x 4K UltraHD	
AUDIO		
Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)	
Audio Output	1 x Line (3,5mm), 1 x HDMI, 1 x Display Port	
Audio Input/Output in Cameras	Supports audio input/output build in cameras	
PERFORMANCE - H.264		
2MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 50 sub streams or 12 main streams (while recording 50 main streams) • Playback up to: 12 main streams (while recording: 50 main streams)	
4MPX IP Camera	Recording up to: 70 main streams (while displaying: 8 sub streams) • Display up to: 45 sub streams or 8 main streams (while recording: 45 main streams) • Playback up to: 8 main streams (while recording: 45 main streams)	
5MPX IP Camera	Recording up to: 60 main streams (while displaying: 8 sub streams) • Display up to: 45 sub streams or 6 main streams (while recording: 45 main streams) • Playback up to: 6 main streams (while recording: 45 main streams)	
8MPX IP Camera	Recording up to: 40 main streams (while displaying: 8 sub streams) • Display up to: 40 sub streams or 4 main streams (while recording: 40 main streams) • Playback up to: 4 main streams (while recording: 40 main streams)	
12MPX IP Camera	Recording up to: 35 main streams (while displaying: 8 sub streams) • Display up to: 35 sub streams or 4 main streams (while recording: 35 main streams) • Playback up to: 4 main streams (while recording: 35 main streams)	
PERFORMANCE - H.265		
2MPX IP Camera	Recording up to: 150 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 8 main streams (while recording: 30 main streams) • Playback up to: 8 main streams (while recording: 30 main streams)	









NMS IP Recorder NMS NVR 5-T-III

4MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 4 main streams (while recording: 30 main streams) • Playback up to: 4 main streams (while recording: 30 main streams)	
5MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) Display up to: 35 sub streams or 4 main streams (while recording: 35 main streams) • Playback up to: 4 main streams (while recording: 35 main streams)	
8MPX IP Camera	Recording up to: 75 main streams (while displaying: 8 sub streams) Display up to: 35 sub streams or 2 main streams (while recording: 3 main streams) • Playback up to: 2 main streams (while recording: 3 main streams)	
12MPX IP Camera	Recording up to: 56 main streams (while displaying: 8 sub streams) Display up to: 20 sub streams or 2 main streams (while recording: 2 main streams) • Playback up to: 2 main streams (while recording: 2 main streams)	
RECORDING		
Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm	
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes	
Prealarm/Postalarm	Up to: 30s / Up to: 600s	
PLAYBACK		
Recorded Data Search	By Date/Time, Events, "Text-in"	
BACKUP		
Backup Methods	USB port (HDD lor Flash drive), Network	
Backup File Format	JPEG, BMP, AVI, NMS	
HDD		
Internal storage for system	1 x SSD NVMe	
Internal Storage for Recording	6 available bays for 3,5" HDD surveillance grade storage media	
internal Storage for Recording	to available bays for 5,5. How surveillance grade storage media	
ALARMS		
Alarm Input/output in cameras	support of alarm input and output built in cameras	
Motion detection	support of motion detection built in cameras	
Video Analytics	supported built in analytics in camera	
Temperature alarm	support of temperature alarm built in cameras	
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera	
System Reactions to Alarm Events	e-mail, Screen Message, Recording Activation, PTZ	
NETWORK		
Network Interface	1 x Ethernet - RJ45 interface, 10/100/1000/2500 Mbit/s	
Network Throughput	up to 350Mbit/s from all cameras • up to 350Mbit/s to all client stations • Max network throughput: 350Mbit/s for each network card	
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA	
Compatible Mobile Applications	NMS Mobile	
PTZ		
PTZ Functions	pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris	









NMS IP Recorder NMS NVR 5-T-III

ADDITIONAL INTERFACES

USB Ports

Operating System	Microsoft Windows 10 IoT	
Recording and Surveillance System	NMS (Novus Management System)	
Additional Software	Internet Explorer	
Operation Mode	Pentaplex	
OSD	Polish, English, Russian, others	
Control	PC mouse and keyboard (in-set included), DCZ keyboard	
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss	
Security	Password protection, IP filtering, MAC filtering, Limiting the number connections	
INTEGRATION		
Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS-	

4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C

INSTALLATION PARAMETERS

Dimensions	160mm (W) x 428mm(H) x 410mm (D)	
Weight	10 kg (without HDDs for recording)	
Power Supply	built in 700W, with 230VAC input	
Power consumption/heatprint	260W/210W (without HDD for recording)	
Operating Temperature	5°C ~ 35°C	

ONVIF Devices, RTSP Devices

ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other),

Attention.

To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.







NVSO IP Recorder

NVSO 5-T-III



KEY FEATURES













- •Video and audio channels: 150
- •Recording speed up to 3750 fps at 1920 x 1080
- •Supports resolution up to 4000 x 3000
- Recorded stream size: 350 Mb/s in total from all cameras
- •Supports up to 3 monitors simultaneously
- •optional disk mounting: 6 x SATA 3,5"
- •Operating system: Microsoft Windows 10 Pro
- •Recording and surveillance system: NMS (Novus Management System)
- •Compatible with all NOVUS IP cameras

DIMENSIONS



VIDEO

VIDEO		
IP Camera Recording	120 channels at 1920x1080 (video+audio) using H.264 codec • 150 channels at 1920x1080 (video+audio) using H.265 codec	
Maximum Supported Camera Resolution	4000x3000	
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG	
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye	
Dualstreaming Support	yes	
DISPLAY		
Monitor Output	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D (up to 3 monitors simultaneously)	
Maximum Resolution	3 x 4K UltraHD	
AUDIO		
Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)	
Audio Output	1 x Line (3,5mm), 1 x HDMI, 1 x Display Port	
Audio Input/Output in Cameras	Supports audio input/output build in cameras	
PERFORMANCE - H.264		
2MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 50 sub streams or 12 main streams (while recording: 50 main streams) • Playback up to: 12 main streams (while recording: 50 main streams)	
4MPX IP Camera	Recording up to: 70 main streams (while displaying: 8 sub streams) • Display up to: 45 sub streams or 8 main streams (while recording: 45 main streams) • Playback up to: 8 main streams (while recording: 45 main streams)	
5MPX IP Camera	Recording up to: 60 main streams (while displaying: 8 sub streams) • Display up to: 45 sub streams or 6 main streams (while recording: 45 main streams) • Playback up to: 6 main streams (while recording: 45 main streams)	
8MPX IP Camera	Recording up to: 40 main streams (while displaying: 8 sub streams) • Display up to: 40 sub streams or 4 main streams (while recording: 40 main streams) • Playback up to: 4 main streams (while recording: 40 main streams)	
12MPX IP Camera	Recording up to: 35 main streams (while displaying: 8 sub streams) • Display up to: 35 sub streams or 4 main streams (while recording: 35 main streams) • Playback up to: 4 main streams (while recording: 35 main streams)	
PERFORMANCE - H.265		
2MPX IP Camera	Recording up to: 150 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 8 main streams (while recording: 30 main streams) • Playback up to: 8 main streams (while recording: 30 main streams)	









NVSO IP Recorder NVSO 5-T-III

4MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 4 main streams (while recording: 30 main streams) • Playback up to: 4 main streams (while recording: 30 main streams)	
5MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 35 sub streams or 4 main streams (while recording: 35 main streams) • Playback up to: 4 main streams (while recording: 35 main streams)	
8MPX IP Camera	Recording up to: 75 main streams (while displaying: 8 sub streams) of Display up to: 35 sub streams or 2 main streams (while recording: 35 main streams) • Playback up to: 2 main streams (while recording: 35 main streams)	
12MPX IP Camera	Recording up to: 56 main streams (while displaying: 8 sub streams) • Display up to: 20 sub streams or 2 main streams (while recording: 20 main streams) • Playback up to: 2 main streams (while recording: 20 main streams)	
RECORDING		
Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm	
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes	
Prealarm/Postalarm	Up to: 30s / Up to: 600s	
PLAYBACK		
Recorded Data Search	By Date/Time, Events, "Text-in"	
BACKUP		
Backup Methods	USB port (HDD lor Flash drive), Network	
Backup File Format	JPEG, BMP, AVI, NMS	
HDD		
Internal storage for system	1 x SSD NVMe	
Internal Storage for Recording	6 available bays for 3,5" HDD surveillance grade storage media	
ALARMS		
Alarm Input/output in cameras	support of alarm input and output built in cameras	
Motion detection	support of motion detection built in cameras	
Video Analytics	supported built in analytics in camera	
Temperature alarm	support of temperature alarm built in cameras	
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera	
System Reactions to Alarm Events	e-mail, Screen Message, Recording Activation, PTZ	
NETWORK		
Network Interface	1 x Ethernet - RJ45 interface, 10/100/1000/2500 Mbit/s	
Network Throughput	up to 350Mbit/s from all cameras • up to 350Mbit/s to all client stations • Max network throughput: 350Mbit/s for each network card	
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA	
Compatible Mobile Applications	NMS Mobile	
PTZ		
PTZ Functions	pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris	









NVSO IP Recorder NVSO 5-T-III

	RFACES

USB Ports

032 1 01 03	1 X 03B 2:0, 1 X 03B 3:2, 1 X 03B 3:2 1 ypc 0	
OPERATING SYSTEM		
Operating System	Microsoft Windows 10 Pro	
Recording and Surveillance System	NMS (Novus Management System)	
Additional Software	Internet Explorer	
Operation Mode	Pentaplex	
OSD	Polish, English, Russian, others	
Control	PC mouse and keyboard (in-set included), DCZ keyboard	
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss	
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections	
INTEGRATION		
Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS- ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other),	

4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C

INSTALLATION PARAMETERS

160mm (W) x 428mm(H) x 410mm (D)
10 kg (without HDDs for recording)
built in 700W, with 230VAC input
260W/210W (without HDD for recording)
5°C ~ 35°C

ONVIF Devices, RTSP Devices

Attention.

To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.







NMS IP Recorder

NMS NVR 7-T-III



KEY FEATURES













- •Video and audio channels: 150
- •Recording speed up to 3750 fps at 1920 x 1080
- •Supports resolution up to 4000 x 3000
- •Recorded stream size: 350 Mb/s in total from all
- Supports up to 3 monitors simultaneously
- •optional disk mounting: 6 x SATA 3,5"
- •Operating system: Microsoft Windows 10 IoT
- •Recording and surveillance system: NMS (Novus Management System)
- •Compatible with all NOVUS IP cameras

DIMENSIONS





VIDEO

VIDEO	
IP Camera Recording	120 channels at 1920x1080 (video+audio) using H.264 codec • 150 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes
DISPLAY	
Monitor Output	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD
AUDIO	
Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line (3,5mm), 1 x HDMI, 1 x Display Port
Audio Input/Output in Cameras	Supports audio input/output build in cameras
PERFORMANCE - H.264	
2MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 70 sub streams or 20 main streams (while recording: 70 main streams) • Playback up to: 20 main streams (while recording: 70 main streams)
4MPX IP Camera	Recording up to: 70 main streams (while displaying: 8 sub streams) • Display up to: 70 sub streams or 13 main streams (while recording: 70 main streams) • Playback up to: 13 main streams (while recording: 70 main streams)
5MPX IP Camera	Recording up to: 60 main streams (while displaying: 8 sub streams) • Display up to: 60 sub streams or 8 main streams (while recording: 60 main streams) • Playback up to: 8 main streams (while recording: 30 main streams)
8MPX IP Camera	Recording up to: 40 main streams (while displaying: 8 sub streams) • Display up to: 40 sub streams or 5 main streams (while recording: 40 main streams) • Playback up to: 5 main streams (while recording: 40 main streams)
12MPX IP Camera	Recording up to: 35 main streams (while displaying: 8 sub streams) • Display up to: 35 sub streams or 8 main streams (while recording: 35 main streams) • Playback up to: 8 main streams (while recording: 35 main streams)
PERFORMANCE - H.265	
2MPX IP Camera	Recording up to: 150 main streams (while displaying: 8 sub streams) • Display up to: 55 sub streams or 15 main streams (while recording: 55 main streams) • Playback up to: 15 main streams (while recording: 55 main streams)

recording: 55 main streams)









NMS IP Recorder NMS NVR 7-T-III

4MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 50 sub streams or 8 main streams (while recording: 50 main streams) • Playback up to: 8 main streams (while recording: 50 main streams)
5MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 60 sub streams or 5 main streams (while recording: 60 main streams) • Playback up to: 5 main streams (while recording: 60 main streams)
8MPX IP Camera	Recording up to: 70 main streams (while displaying: 8 sub streams) • Display up to: 65 sub streams or 4 main streams (while recording: 65 main streams) • Playback up to: 4 main streams (while recording: 65 main streams)
12MPX IP Camera	Recording up to: 56 main streams (while displaying: 8 sub streams) • Display up to: 32 sub streams or 4 main streams (while recording: 32 main streams) • Playback up to: 4 main streams (while recording: 32 main streams)
RECORDING	
Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s
PLAYBACK	
Recorded Data Search	By Date/Time, Events, "Text-in"
BACKUP	
Backup Methods	USB port (HDD lor Flash drive)
Backup File Format	JPEG, BMP, AVI, NMS
HDD	
Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	6 available bays for 3,5" HDD surveillance grade storage media
ALARMS	
Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera
System Reactions to Alarm Events	e-mail, Screen Message, Recording Activation, PTZ
NETWORK	
Network Interface	1 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s • 1 x Ethernet - złącze RJ45, 10/100/1000/2500 Mbit/s
Network Throughput	up to 350Mbit/s from all cameras • up to 350Mbit/s to all client stations • Max network throughput: 350Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	NMS Mobile
PTZ	









NMS IP Recorder NMS NVR 7-T-III

pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris $% \left(1\right) =\left(1\right) \left(1\right)$ PTZ Functions

ADDITIONAL INTERFACES

USB Ports 4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C

OPERATING SYSTEM

Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections

INTEGRATION

Integrated Devices Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS-ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices

INSTALLATION PARAMETERS

Operating Temperature	5°C ~ 35°C
Power consumption/heatprint	280W/230W (without HDD for recording)
Power Supply	built in 700W, with 230VAC input
Weight	10 kg (without HDDs for recording)
Dimensions	185mm (W) x 408mm(H) x 475mm (D)

Attention:

To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.







NMS IP Recorder

NVSO 7-T-III



KEY FEATURES













- •Video and audio channels: 150
- •Recording speed up to 3750 fps at 1920 x 1080
- •Supports resolution up to 4000 x 3000
- •Recorded stream size: 350 Mb/s in total from all
- •Supports up to 3 monitors simultaneously
- •optional disk mounting: 6 x SATA 3,5"
- Operating system: Microsoft Windows 10 Pro
- Recording and surveillance system: NMS (Novus Management System)
- •Compatible with all NOVUS IP cameras

DIMENSIONS





505 mm

VIDEO	
IP Camera Recording	120 channels at 1920x1080 (video+audio) using H.264 codec • 150 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes
DISPLAY	
Monitor Output	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD
AUDIO	
Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line (3,5mm), 1 x HDMI, 1 x Display Port
Audio Input/Output in Cameras	Supports audio input/output build in cameras
PERFORMANCE - H.264	

70 main streams) • Playback up to: 20 main streams (while recording: 70 main streams) 4MPX IP Camera Recording up to: 70 main streams (while displaying: 8 sub streams) • Display up to: 70 sub streams or 13 main streams (while recording: $\frac{13}{100}$ 70 main streams) • Playback up to: 13 main streams (while

recording: 70 main streams)

5MPX IP Camera	Recording up to: 60 main streams (while displaying: 8 sub streams) • Display up to: 60 sub streams or 8 main streams (while recording: 60 main streams) • Playback up to: 8 main streams (while recording: 60 main streams)
8MPX IP Camera	Recording up to: 40 main streams (while displaying: 8 sub streams) • Display up to: 40 sub streams or 5 main streams (while recording: 40

	main streams) • Playback up to: 5 main streams (while recording: 40 main streams)
12MPX IP Camera	Recording up to: 35 main streams (while displaying: 8 sub streams) •

main streams) • Playback up to: 8 main streams (while recording: 35 main streams)

PERFORMANCE - H.265

2MPX IP Camera

2MPX IP Camera	Recording up to: 150 main streams (while displaying: 8 sub streams) • Display up to: 55 sub streams or 15 main streams (while recording:
	55 main streams) • Playback up to: 15 main streams (while recording: 55 main streams)





Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 70 sub streams or 20 main streams (while recording:





NMS IP Recorder **NVSO 7-T-III**

4MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 50 sub streams or 8 main streams (while recording: 50 main streams) • Playback up to: 8 main streams (while recording: 50 main streams)
5MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 60 sub streams or 5 main streams (while recording: 60 main streams) • Playback up to: 5 main streams (while recording: 60 main streams)
8MPX IP Camera	Recording up to: 70 main streams (while displaying: 8 sub streams) • Display up to: 65 sub streams or 4 main streams (while recording: 65 main streams) • Playback up to: 4 main streams (while recording: 65 main streams)
12MPX IP Camera	Recording up to: 56 main streams (while displaying: 8 sub streams) • Display up to: 32 sub streams or 4 main streams (while recording: 32 main streams) • Playback up to: 4 main streams (while recording: 32 main streams)
RECORDING	
Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s
PLAYBACK	
Recorded Data Search	By Date/Time, Events, "Text-in"
BACKUP	
Backup Methods	USB port (HDD lor Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS
HDD	
Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	6 available bays for 3,5" HDD surveillance grade storage media
ALARMS	
Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera
System Reactions to Alarm Events	e-mail, Screen Message, Recording Activation, PTZ
NETWORK	
Network Interface	1 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s • 1 x Ethernet - złącze RJ45, 10/100/1000/2500 Mbit/s
Network Throughput	up to 350Mbit/s from all cameras • up to 350Mbit/s to all client stations • Max network throughput: 350Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	NMS Mobile
PTZ	









NMS IP Recorder **NVSO 7-T-III**

PTZ Functions pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus,

iris

ADDITIONAL INTERFACES

USB Ports 4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C

OPERATING SYSTEM

Operating System	Microsoft Windows 10 Pro
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections

INTEGRATION

Integrated Devices

Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS-ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices

INSTALLATION PARAMETERS

Dimensions	185mm (W) x 408mm(H) x 475mm (D)
Weight	10 kg (without HDDs for recording)
Power Supply	built in 700W, with 230VAC input
Power consumption/heatprint	280W/230W (without HDD for recording)
Operating Temperature	5°C ~ 35°C

Attention.

To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.







NMS IP Recorder

NMS NVR X-4U-III





KEY FEATURES















- •Supports resolution up to 4000 x 3000
- •Recorded stream size: 450 Mb/s in total from all cameras
- •Supports up to 3 monitors simultaneously
- •optional disk mounting: 8 x SATA 3,5"
- •External arrays support
- •Operating system: Microsoft Windows 10 IoT
- •Recording and surveillance system: NMS (Novus Management System)
- •Compatible with all NOVUS IP cameras

DIMENSIONS





VIDEO

IP Camera Recording	160 channels at 1920x1080 (video+audio) using H.264 codec • 200 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes
DISPLAY	
Monitor Output	1 x HDMI 2.0b, 1 x Dual link-DVI, 1 x Display Port 1.2 (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD
AUDIO	
Audio Output	1 x HDMI, 1 x Display Port
PERFORMANCE - H.264	
2MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 60 sub streams or 20 main streams (while recording: 80 main streams) • Playback up to: 20 main streams (while recording: 80 main streams)
4MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 50 sub streams or 13 main streams (while recording: 80 main streams) • Playback up to: 13 main streams (while recording: 80 main streams)
5MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 40 sub streams or 8 main streams (while recording: 80 main streams) • Playback up to: 8 main streams (while recording: 80 main streams)
8MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 5 main streams (while recording: 60 main streams) • Playback up to: 5 main streams (while recording: 60 main streams)
12MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 25 sub streams or 4 main streams (while recording: 50 main streams) • Playback up to: 4 main streams (while recording: 50 main streams)
PERFORMANCE - H.265	
2MPX IP Camera	Recording up to: 200 main streams (while displaying: 8 sub streams) • Display up to: 60 sub streams or 20 main streams (while recording: 80 main streams) • Playback up to: 20 main streams (while recording: 80 main streams)
4MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 40 sub streams or 9 main streams (while recording: 80 main streams) • Playback up to: 9 main streams (while recording: 80 main streams)









NMS IP Recorder NMS NVR X-4U-III

5MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 35 sub streams or 4 main streams (while recording: 70 main streams) • Playback up to: 4 main streams (while recording: 70 main streams)
8MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 25 sub streams or 4 main streams (while recording: 70 main streams) • Playback up to: 4 main streams (while recording: 70 main streams)
12MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 16 sub streams or 4 main streams (while recording: 50 main streams) • Playback up to: 4 main streams (while recording: 50 main streams)
RECORDING	
Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s
PLAYBACK	
Recorded Data Search	By Date/Time, Events, "Text-in", Image Analysis Events
BACKUP	
Backup Methods	USB port (HDD lor Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS
HDD	
Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	8 available bays for 3,5" HDD surveillance grade storage media
ALARMS	
Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of colored image applicis functions available in the comore
	support of selected image analysis functions available in the camera
NETWORK	support of selected image analysis functions available in the camera
NETWORK Network Interface	2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s
Network Interface	2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s up to 450Mbit/s from all cameras • up to 450Mbit/s to all client
Network Interface Network Throughput	2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s up to 450Mbit/s from all cameras • up to 450Mbit/s to all client stations • Max network throughput: 450Mbit/s for each network card HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP,
Network Interface Network Throughput Network Protocols Support	2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s up to 450Mbit/s from all cameras • up to 450Mbit/s to all client stations • Max network throughput: 450Mbit/s for each network card HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Network Interface Network Throughput Network Protocols Support Compatible Mobile Applications	2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s up to 450Mbit/s from all cameras • up to 450Mbit/s to all client stations • Max network throughput: 450Mbit/s for each network card HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Network Interface Network Throughput Network Protocols Support Compatible Mobile Applications PTZ	2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s up to 450Mbit/s from all cameras • up to 450Mbit/s to all client stations • Max network throughput: 450Mbit/s for each network card HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA NMS Mobile pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus,
Network Interface Network Throughput Network Protocols Support Compatible Mobile Applications PTZ PTZ Functions	2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s up to 450Mbit/s from all cameras • up to 450Mbit/s to all client stations • Max network throughput: 450Mbit/s for each network card HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA NMS Mobile pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus,









NMS IP Recorder **NMS NVR X-4U-III**

Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	NMS, Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections
INTEGRATION	
Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS- ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices
INSTALLATION PARAMETERS	
B: .	170 (11) 170 (11) 610 (15)

Dimensions	178mm (W) x 452mm(H) x 648mm (D)
Weight	28 kg (without HDD)
Power Supply	built in 700W, with 230VAC input
Power consumption/heatprint	350W/280W (without HDD for recording)
Operating Temperature	5°C ~ 35°C
RACK Mount 19"	4U







^{*} To support more than two monitors it is required to use Display Port output.

** Available with dual streaming mode.

*** Function capability depends on used devices and communication protocols.

**** List of compatible HDD models and maximum of their capacities is available in section DOWNLOADABLE FILES.

NMS IP Recorder

NMS NVR X-2U-III





KEY FEATURES







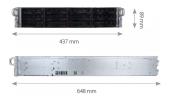






- •Video and audio channels: 200
- •Supports resolution up to 4000 x 3000
- •Recorded stream size: 450 Mb/s in total from all cameras
- •Supports up to 3 monitors simultaneously
- •optional disk mounting: 12 x SATA 3,5"
- •RAID controller protects recordings
- •External arrays support
- •Operating system: Microsoft Windows 10 IoT
- Recording and surveillance system: NMS (Novus Management System)
- •Compatible with all NOVUS IP cameras
- •Redundant PSUs: 2

DIMENSIONS



VIDEO

IP Camera Recording	160 channels at 1920x1080 (video+audio) using H.264 codec • 200 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes
DISPLAY	
Monitor Output	3 x Mini Display Port 1.2, (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD
AUDIO	
Audio Output	3 x Mini Display Port 1.2
PERFORMANCE - H.264	
2MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)
4MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 120 main streams) • Playback up to: 8 main streams (while recording: 120 main streams)
5MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 100 main streams) • Playback up to: 8 main streams (while recording: 8 main streams)
8MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 6 main streams (while recording: 80 main streams) • Playback up to: 6 main streams (while recording: 80 main streams)
12MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 80 main streams) • Playback up to: 4 main streams (while recording: 80 main streams)
PERFORMANCE - H.265	
2MPX IP Camera	Recording up to: 200 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 200 main streams) • Playback up to: 8 main streams (while recording: 200 main streams)
4MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)









NMS IP Recorder NMS NVR X-2U-III

5MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 120 main streams) • Playback up to: 4 main streams (while recording: 120 main streams)
8MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)
12MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)
RECORDING	
Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s
PLAYBACK	
Recorded Data Search	By Date/Time, Events, "Text-in", Image Analysis Events
BACKUP	
Backup Methods	USB port (HDD lor Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS
HDD	
Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	12 available bays for 3,5" HDD surveillance grade storage media
RAID Redundancy	RAID types: RAID 0, RAID 1, RAID 5, RAID 6
ALARMS	
Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera
NETWORK	
Network Interface	2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s
Network Throughput	up to 450Mbit/s from all cameras • up to 450Mbit/s to all client stations • Max network throughput: 450Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	NMS Mobile
PTZ	
PTZ Functions	pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris
ADDITIONAL INTERFACES	
USB Ports	4 x USB 3.2 • 2 x USB 2.0









NMS IP Recorder NMS NVR X-2U-III

OPERATING SYSTEM	
Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	NMS, Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections
INTEGRATION	
Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS- ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices
INSTALLATION PARAMETERS	
Dimensions	437mm (W) x 89mm(H) x 648mm (D)
Weight	24 kg (with HDDs)
Power Supply	built in 2 x redundant power supply 230VAC input with 960W power each
Power consumption/heatprint	490W/400W (without HDD for recording)
Operating Temperature	5°C ~ 35°C
RACK Mount 19"	2U

Attention: To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.







NMS IP Recorder

NMS NVR X-2U-III-24TB





KEY FEATURES













- •Video and audio channels: 200
- •Supports resolution up to 4000 x 3000
- •Recorded stream size: 450 Mb/s in total from all cameras
- •Supports up to 3 monitors simultaneously
- •RAID controller protects recordings
- External arrays support
- •Operating system: Microsoft Windows 10 IoT
- •Recording and surveillance system: NMS (Novus Management System)
- •Compatible with all NOVUS IP cameras
- •Redundant PSUs: 2

DIMENSIONS



VIDEO	
IP Camera Recording	160 channels at 1920x1080 (video+audio) using H.264 codec • 200 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes
DISPLAY	
Monitor Output	3 x Mini Display Port 1.2, (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD
AUDIO	
Audio Output	3 x Mini Display Port 1.2
PERFORMANCE - H.264	
2MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)
4MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 120 main streams) • Playback up to: 8 main streams (while recording: 120 main streams)
5MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 100 main streams) • Playback up to: 8 main streams (while recording: 8 main streams)
8MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) Display up to: 8 sub streams or 6 main streams (while recording: 80 main streams) • Playback up to: 6 main streams (while recording: 80 main streams)
12MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) Display up to: 8 sub streams or 4 main streams (while recording: 80 main streams) • Playback up to: 4 main streams (while recording: 80 main streams)
PERFORMANCE - H.265	
2MPX IP Camera	Recording up to: 200 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 200 main streams) • Playback up to: 8 main streams (while recording: 200 main streams)
4MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)









NMS IP Recorder NMS NVR X-2U-III-24TB

5MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 120 main streams) • Playback up to: 4 main streams (while recording: 120 main streams)
8MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)
12MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)
RECORDING	
Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s
PLAYBACK	
Recorded Data Search	By Date/Time, Events, "Text-in", Image Analysis Events
BACKUP	
Backup Methods	USB port (HDD lor Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS
HDD	
Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	12 x 2TB SAS 3,5" 2TB surviliance grade server storage media
RAID Redundancy	RAID types: RAID 0, RAID 1, RAID 5, RAID 6
ALARMS	
Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera
NETWORK	
Network Interface	2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s
Network Throughput	up to 450Mbit/s from all cameras • up to 450Mbit/s to all client stations • Max network throughput: 450Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	NMS Mobile
PTZ	
PTZ Functions	pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris
ADDITIONAL INTERFACES	
USB Ports	4 x USB 3.2 • 2 x USB 2.0









NMS IP Recorder NMS NVR X-2U-III-24TB

RACK Mount 19"

OPERATING SYSTEM	
Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	NMS, Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections
INTEGRATION	
Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS- ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices
INSTALLATION PARAMETERS	
Dimensions	437mm (W) x 89mm(H) x 648mm (D)
Weight	24 kg (with HDDs)
Power Supply	built in 2 x redundant power supply 230VAC input with 960W power each
Power consumption/heatprint	490W/400W (without HDD for recording)
Operating Temperature	5°C ~ 35°C

Attention: To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.

2U







NMS IP Recorder

NMS NVR X-2U-III-48TB





KEY FEATURES







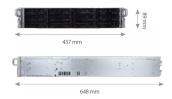






- •Video and audio channels: 200
- •Supports resolution up to 4000 x 3000
- •Recorded stream size: 450 Mb/s in total from all cameras
- •Supports up to 3 monitors simultaneously
- \bullet Built-in HDDs: 12 x 4 TB server-dedicated SAS for 24/7 recording
- RAID controller protects recordings
- External arrays support
- •Operating system: Microsoft Windows 10 IoT
- •Recording and surveillance system: NMS (Novus Management System)
- •Compatible with all NOVUS IP cameras
- •Redundant PSUs: 2

DIMENSIONS



VIDEO	
IP Camera Recording	160 channels at 1920x1080 (video+audio) using H.264 codec • 200 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes
DISPLAY	
Monitor Output	3 x Mini Display Port 1.2, (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD
AUDIO	
Audio Output	3 x Mini Display Port 1.2
PERFORMANCE - H.264	
2MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)
4MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams

Display up to: 8 sub streams or 8 main streams (while recording: 120 main streams) • Playback up to: 8 main streams (while recording: 120 main streams) Mecording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 100 main streams) • Playback up to: 8 main streams (while recording: 8 main streams) MPX IP Camera Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 6 main streams (while recording: 80 main streams) • Playback up to: 6 main streams (while recording: 80 main streams)

PERFORMANCE - H.265

12MPX IP Camera

2MPX IP Camera	Recording up to: 200 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 200 main streams) • Playback up to: 8 main streams (while recording: 200 main streams)
4MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)

main streams)





Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 80 main streams) • Playback up to: 4 main streams (while recording: 80





NMS IP Recorder NMS NVR X-2U-III-48TB

5MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 120 main streams) • Playback up to: 4 main streams (while recording: 120 main streams)
8MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)
12MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)
RECORDING	
Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s
PLAYBACK	
Recorded Data Search	By Date/Time, Events, "Text-in", Image Analysis Events
BACKUP	
Backup Methods	USB port (HDD lor Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS
HDD	
Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	12 x 4TB SAS 3,5" 4TB surviliance grade server storage media
RAID Redundancy	RAID types: RAID 0, RAID 1, RAID 5, RAID 6
ALARMS	
Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera
NETWORK	
Network Interface	2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s
Network Throughput	up to 450Mbit/s from all cameras • up to 450Mbit/s to all client stations • Max network throughput: 450Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	NMS Mobile
PTZ	
PTZ Functions	pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris
ADDITIONAL INTERFACES	
USB Ports	4 x USB 3.2 • 2 x USB 2.0









NMS IP Recorder NMS NVR X-2U-III-48TB

OPERATING SYSTEM

OPERATING SYSTEM	
Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	NMS, Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections
INTEGRATION	
Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS- ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices
INSTALLATION PARAMETERS	
Dimensions	437mm (W) x 89mm(H) x 648mm (D)
Weight	24 kg (with HDDs)
Power Supply	built in 2 x redundant power supply 230VAC input with 960W power each
Power consumption/heatprint	490W/400W (without HDD for recording)
Operating Temperature	5°C ~ 35°C
RACK Mount 19"	2U

Attention: To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.







NMS IP Recorder

NMS NVR X-2U-III-72TB





KEY FEATURES













- •Video and audio channels: 200
- •Supports resolution up to 4000 x 3000
- •Recorded stream size: 450 Mb/s in total from all cameras
- •Supports up to 3 monitors simultaneously
- \bullet Built-in HDDs: 12 x 6 TB server-dedicated SAS for 24/7 recording
- RAID controller protects recordings
- External arrays support
- •Operating system: Microsoft Windows 10 IoT
- •Recording and surveillance system: NMS (Novus Management System)
- •Compatible with all NOVUS IP cameras
- •Redundant PSUs: 2

DIMENSIONS



VIDEO	
IP Camera Recording	160 channels at 1920x1080 (video+audio) using H.264 codec • 200 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes
DISPLAY	
Monitor Output	3 x Mini Display Port 1.2, (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD
AUDIO	
Audio Output	3 x Mini Display Port 1.2
PERFORMANCE - H.264	
2MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)
AMDY ID Camera	Pecording up to: 120 main streams (while displaying: 8 sub streams

4MPX IP Camera Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 120 main streams) • Playback up to: 8 main streams (while

5MPX IP Camera

Recording up to: 100 main streams (while displaying: 8 sub streams)

• Display up to: 8 sub streams or 8 main streams (while recording: 100 main streams)

• Playback up to: 8 main streams (while recording: 8 main streams)

recording: 120 main streams)

8MPX IP Camera

Recording up to: 80 main streams (while displaying: 8 sub streams) •
Display up to: 8 sub streams or 6 main streams (while recording: 80 main streams) • Playback up to: 6 main streams (while recording: 80 main streams)

12MPX IP Camera

Recording up to: 80 main streams (while displaying: 8 sub streams) •
Display up to: 8 sub streams or 4 main streams (while recording: 80 main streams) • Playback up to: 4 main streams (while recording: 80 main streams)

PERFORMANCE - H.265

2MPX IP Camera	Recording up to: 200 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 200 main streams) • Playback up to: 8 main streams (while recording: 200 main streams)
4MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)









NMS IP Recorder NMS NVR X-2U-III-72TB

Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 120 main streams) • Playback up to: 4 main streams (while recording: 120 main streams)
Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)
Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)
Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm
individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Up to: 30s / Up to: 600s
By Date/Time, Events, "Text-in", Image Analysis Events
USB port (HDD lor Flash drive), Network
JPEG, BMP, AVI, NMS
1 x SSD NVMe
12 x 6TB SAS 3,5" 6TB surviliance grade server storage media
RAID types: RAID 0, RAID 1, RAID 5, RAID 6
support of alarm input and output built in cameras
support of motion detection built in cameras
supported built in analytics in camera
support of temperature alarm built in cameras
support of selected image analysis functions available in the camera
2 x Ethernet - RI45 interface, 10/100/1000 Mbit/s
2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s up to 450Mbit/s from all cameras • up to 450Mbit/s to all client stations • Max network throughput: 450Mbit/s for each network card
up to 450Mbit/s from all cameras • up to 450Mbit/s to all client
up to 450Mbit/s from all cameras • up to 450Mbit/s to all client stations • Max network throughput: 450Mbit/s for each network card HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS,
up to 450Mbit/s from all cameras • up to 450Mbit/s to all client stations • Max network throughput: 450Mbit/s for each network card HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
up to 450Mbit/s from all cameras • up to 450Mbit/s to all client stations • Max network throughput: 450Mbit/s for each network card HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
up to 450Mbit/s from all cameras • up to 450Mbit/s to all client stations • Max network throughput: 450Mbit/s for each network card HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA NMS Mobile pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus,









NMS IP Recorder NMS NVR X-2U-III-72TB

OPERATING SYSTEM	
Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	NMS, Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections
INTEGRATION	
Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS- ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices
INSTALLATION PARAMETERS	
Dimensions	437mm (W) x 89mm(H) x 648mm (D)
Weight	24 kg (with HDDs)
Power Supply	built in 2 x redundant power supply 230VAC input with 960W power each
Power consumption/heatprint	490W/400W (without HDD for recording)
Operating Temperature	5°C ~ 35°C
RACK Mount 19"	2U

Attention: To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.







NMS IP Recorder

NMS NVR X-2U-III-96TB





KEY FEATURES







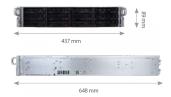






- •Video and audio channels: 200
- •Supports resolution up to 4000 x 3000
- Recorded stream size: 450 Mb/s in total from all cameras
- •Supports up to 3 monitors simultaneously
- •RAID controller protects recordings
- External arrays support
- •Operating system: Microsoft Windows 10 IoT
- •Recording and surveillance system: NMS (Novus Management System)
- •Compatible with all NOVUS IP cameras
- •Redundant PSUs: 2

DIMENSIONS



VIDEO

VIDEO	
IP Camera Recording	160 channels at 1920x1080 (video+audio) using H.264 codec • 200 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes
DISPLAY	
Monitor Output	3 x Mini Display Port 1.2, (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD
AUDIO	
Audio Output	3 x Mini Display Port 1.2
PERFORMANCE - H.264	
2MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)
4MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 120 main streams) • Playback up to: 8 main streams (while recording: 120 main streams)
5MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 100 main streams) • Playback up to: 8 main streams (while recording: 8 main streams)
8MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 6 main streams (while recording: 80 main streams) • Playback up to: 6 main streams (while recording: 80 main streams)
12MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 80 main streams) • Playback up to: 4 main streams (while recording: 80 main streams)
PERFORMANCE - H.265	
2MPX IP Camera	Recording up to: 200 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 200 main streams) • Playback up to: 8 main streams (while recording: 200 main streams)
4MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)









NMS IP Recorder NMS NVR X-2U-III-96TB

5MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 120 main streams) • Playback up to: 4 main streams (while recording: 120 main streams)
8MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)
12MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)
RECORDING	
Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s
PLAYBACK	
Recorded Data Search	By Date/Time, Events, "Text-in", Image Analysis Events
BACKUP	
Backup Methods	USB port (HDD lor Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS
HDD	
Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	12 x 8TB SAS 3,5" 8TB surviliance grade server storage media
RAID Redundancy	RAID types: RAID 0, RAID 1, RAID 5, RAID 6
ALARMS	
Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera
NETWORK	
Network Interface	2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s
Network Throughput	up to 450Mbit/s from all cameras • up to 450Mbit/s to all client stations • Max network throughput: 450Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	NMS Mobile
PTZ	
PTZ Functions	pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris
ADDITIONAL INTERFACES	
USB Ports	4 x USB 3.2 • 2 x USB 2.0









NMS IP Recorder NMS NVR X-2U-III-96TB

OPERATING SYSTEM	
Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	NMS, Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections
INTEGRATION	
Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS- ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices
INSTALLATION PARAMETERS	
Dimensions	437mm (W) x 89mm(H) x 648mm (D)
Weight	24 kg (with HDDs)
Power Supply	built in 2 x redundant power supply 230VAC input with 960W power each
Power consumption/heatprint	490W/400W (without HDD for recording)
Operating Temperature	5°C ~ 35°C
RACK Mount 19"	2U

Attention: To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.







NoVus

NMS IP Recorder

NMS NVR X-2U-III-120TB





KEY FEATURES







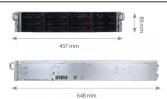






- •Video and audio channels: 200
- •Supports resolution up to 4000 x 3000
- •Recorded stream size: 450 Mb/s in total from all
- •Supports up to 3 monitors simultaneously
- •Built-in HDDs: 12 x 10 TB server-dedicated SAS for 24/7 recording
- •RAID controller protects recordings
- External arrays support
- •Operating system: Microsoft Windows 10 IoT
- •Recording and surveillance system: NMS (Novus Management System)
- •Compatible with all NOVUS IP cameras
- •Redundant PSUs: 2

DIMENSIONS



VIDEO	
IP Camera Recording	160 channels at 1920x1080 (video+audio) using H.264 codec • 200 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes
DISPLAY	
Monitor Output	3 x Mini Display Port 1.2, (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD
AUDIO	
Audio Output	3 x Mini Display Port 1.2
PERFORMANCE - H.264	
2MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)
4MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 120 main streams) • Playback up to: 8 main streams (while recording: 120 main streams)
5MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 100 main streams) • Playback up to: 8 main streams (while recording: 8 main streams)
8MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 6 main streams (while recording: 80 main streams) • Playback up to: 6 main streams (while recording: 80 main streams)
12MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 80 main streams) • Playback up to: 4 main streams (while recording: 80 main streams)
PERFORMANCE - H.265	
2MPX IP Camera	Recording up to: 200 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 200 main streams) • Playback up to: 8 main streams (while recording: 200 main streams)
4MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)

2MPX IP Camera	Recording up to: 200 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 200 main streams) • Playback up to: 8 main streams (while recording: 200 main streams)
4MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)









NMS IP Recorder NMS NVR X-2U-III-120TB

5MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 120 main streams) • Playback up to: 4 main streams (while recording: 120 main streams)
8MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)
12MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)
RECORDING	
Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s
PLAYBACK	
Recorded Data Search	By Date/Time, Events, "Text-in", Image Analysis Events
BACKUP	
Backup Methods	USB port (HDD lor Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS
HDD	
Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	12 x 10TB SAS 3,5" 10TB surviliance grade server storage media
RAID Redundancy	RAID types: RAID 0, RAID 1, RAID 5, RAID 6
ALARMS	
Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera
NETWORK	
Network Interface	2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s
Network Throughput	up to 450Mbit/s from all cameras • up to 450Mbit/s to all client stations • Max network throughput: 450Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	NMS Mobile
Compatible Mobile Applications	NMS Mobile
, , , , , , , , , , , , , , , , , , , ,	NMS Mobile pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris
РТZ	pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus,









NMS IP Recorder NMS NVR X-2U-III-120TB

OPERATING SYSTEM

OPERATING SYSTEM	
Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	NMS, Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections
INTEGRATION	
Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS-ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices
INSTALLATION PARAMETERS	
Dimensions	437mm (W) x 89mm(H) x 648mm (D)
Weight	24 kg (with HDDs)
Power Supply	built in 2 x redundant power supply 230VAC input with 960W power each
Power consumption/heatprint	490W/400W (without HDD for recording)
Operating Temperature	5°C ~ 35°C
RACK Mount 19"	2U

Attention: To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.







NOVUS

NMS IP Recorder

NMS NVR X-2U-III-144TB



PRO SERIES

KEY FEATURES













- •Video and audio channels: 200
- •Supports resolution up to 4000 x 3000
- •Recorded stream size: 450 Mb/s in total from all
- Supports up to 3 monitors simultaneously
- •Built-in HDDs: 12 x 12 TB server-dedicated SAS for 24/7 recording
- RAID controller protects recordings
- External arrays support
- •Operating system: Microsoft Windows 10 IoT
- •Recording and surveillance system: NMS (Novus Management System)
- •Compatible with all NOVUS IP cameras
- •Redundant PSUs: 2

DIMENSIONS



IP Camera Recording	160 channels at 1920x1080 (video+audio) using H.264 codec • 200 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes
DISPLAY	
Monitor Output	3 x Mini Display Port 1.2, (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD
AUDIO	
Audio Output	3 x Mini Display Port 1.2
PERFORMANCE - H.264	
2MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)
4MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams • Display up to: 8 sub streams or 8 main streams (while recording: 120 main streams) • Playback up to: 8 main streams (while recording: 120 main streams)
5MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams • Display up to: 8 sub streams or 8 main streams (while recording:

8MPX IP Camera

12MPX IP Camera

2MPX IP Camera	Recording up to: 200 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 200 main streams) • Playback up to: 8 main streams (while recording: 200 main streams)
4MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)

recording: 8 main streams)

main streams)





100 main streams) • Playback up to: 8 main streams (while

Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 6 main streams (while recording: 80 main streams) • Playback up to: 6 main streams (while recording: 80

Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 80 main streams) • Playback up to: 4 main streams (while recording: 80





NMS IP Recorder NMS NVR X-2U-III-144TB

5MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 120 main streams) • Playback up to: 4 main streams (while recording: 120 main streams)
8MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)
12MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)
RECORDING	
Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s
PLAYBACK	
Recorded Data Search	By Date/Time, Events, "Text-in", Image Analysis Events
BACKUP	
Backup Methods	USB port (HDD lor Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS
HDD	
Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	12 x 12TB SAS 3,5" 12TB surviliance grade server storage media
RAID Redundancy	RAID types: RAID 0, RAID 1, RAID 5, RAID 6
ALARMS	
Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera
NETWORK	
Network Interface	2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s
Network Throughput	up to 450Mbit/s from all cameras • up to 450Mbit/s to all client stations • Max network throughput: 450Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	NMS Mobile
PTZ	
PTZ Functions	pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris
ADDITIONAL INTERFACES	
USB Ports	4 x USB 3.2 • 2 x USB 2.0









NMS IP Recorder NMS NVR X-2U-III-144TB

OPERATING SYSTEM

OPERATING SYSTEM	
Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	NMS, Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections
INTEGRATION	
Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS- ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices
INSTALLATION PARAMETERS	
Dimensions	437mm (W) x 89mm(H) x 648mm (D)
Weight	24 kg (with HDDs)
Power Supply	built in 2 x redundant power supply 230VAC input with 960W power each
Power consumption/heatprint	490W/400W (without HDD for recording)
Operating Temperature	5°C ~ 35°C
RACK Mount 19"	2U

Attention: To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.







NOVUS

NMS IP Recorder

NMS NVR X-2U-III-168TB





KEY FEATURES









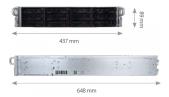






- •Video and audio channels: 200
- •Supports resolution up to 4000 x 3000
- •Recorded stream size: 450 Mb/s in total from all
- •Supports up to 3 monitors simultaneously
- •Built-in HDDs: 12 x 14 TB server-dedicated SAS for 24/7 recording
- RAID controller protects recordings
- External arrays support
- •Operating system: Microsoft Windows 10 IoT
- Recording and surveillance system: NMS (Novus Management System)
- •Compatible with all NOVUS IP cameras
- •Redundant PSUs: 2

DIMENSIONS



IP Camera Recording	160 channels at 1920x1080 (video+audio) using H.264 codec • 200 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes
DISPLAY	
Monitor Output	3 x Mini Display Port 1.2, (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD
AUDIO	
Audio Output	3 x Mini Display Port 1.2
PERFORMANCE - H.264	
2MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)
4MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams • Display up to: 8 sub streams or 8 main streams (while recording: 120 main streams) • Playback up to: 8 main streams (while recording: 120 main streams)
5MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams • Display up to: 8 sub streams or 8 main streams (while recording: 100 main streams) • Playback up to: 8 main streams (while recording: 8 main streams)
8MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) Display up to: 8 sub streams or 6 main streams (while recording: 80

PERFORMANCE - H.265

12MPX IP Camera

2MPX IP Camera	Recording up to: 200 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 200 main streams) • Playback up to: 8 main streams (while recording: 200 main streams)
4MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)

main streams)

main streams)





main streams) • Playback up to: 6 main streams (while recording: 80

Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 80 main streams) • Playback up to: 4 main streams (while recording: 80





NMS IP Recorder NMS NVR X-2U-III-168TB

5MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 120 main streams) • Playback up to: 4 main streams (while recording: 120 main streams)
8MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)
12MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)
RECORDING	
Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s
PLAYBACK	
Recorded Data Search	By Date/Time, Events, "Text-in", Image Analysis Events
BACKUP	
Backup Methods	USB port (HDD lor Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS
HDD	
Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	12 x 14TB SAS 3,5" 14TB surviliance grade server storage media
RAID Redundancy	RAID types: RAID 0, RAID 1, RAID 5, RAID 6
ALARMS	
Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera
NETWORK	
Network Interface	2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s
Network Throughput	up to 450Mbit/s from all cameras • up to 450Mbit/s to all client stations • Max network throughput: 450Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	NMS Mobile
PTZ	
PTZ Functions	pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris
ADDITIONAL INTERFACES	
USB Ports	4 x USB 3.2 • 2 x USB 2.0









NMS IP Recorder NMS NVR X-2U-III-168TB

OPERATING SYSTEM

OPERATING SYSTEM	
Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	NMS, Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections
INTEGRATION	
Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS- ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices
INSTALLATION PARAMETERS	
Dimensions	437mm (W) x 89mm(H) x 648mm (D)
Weight	24 kg (with HDDs)
Power Supply	built in 2 x redundant power supply 230VAC input with 960W power each
Power consumption/heatprint	490W/400W (without HDD for recording)
Operating Temperature	5°C ~ 35°C
RACK Mount 19"	2U

Attention: To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.







NOVUS

NMS IP Recorder

NMS NVR X-2U-III-192TB





KEY FEATURES







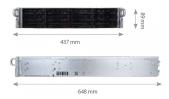






- •Video and audio channels: 200
- •Supports resolution up to 4000 x 3000
- •Recorded stream size: 450 Mb/s in total from all
- •Supports up to 3 monitors simultaneously
- •Built-in HDDs: 12 x 16 TB server-dedicated SAS for 24/7 recording
- •RAID controller protects recordings
- External arrays support
- •Operating system: Microsoft Windows 10 IoT
- Recording and surveillance system: NMS (Novus Management System)
- $\hbox{\bf \bullet Compatible with all NOVUS IP cameras} \\$
- •Redundant PSUs: 2

DIMENSIONS



VIDEO	
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VIDEO	
IP Camera Recording	160 channels at 1920x1080 (video+audio) using H.264 codec • 200 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes
DISPLAY	
Monitor Output	3 x Mini Display Port 1.2, (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD
AUDIO	
Audio Output	3 x Mini Display Port 1.2
PERFORMANCE - H.264	
2MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)
4MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 120 main streams) • Playback up to: 8 main streams (while recording: 120 main streams)
5MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 100 main streams) • Playback up to: 8 main streams (while recording: 8 main streams)
8MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) Display up to: 8 sub streams or 6 main streams (while recording: 80 main streams) • Playback up to: 6 main streams (while recording: 80 main streams)
12MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) Display up to: 8 sub streams or 4 main streams (while recording: 80 main streams) • Playback up to: 4 main streams (while recording: 80 main streams)
PERFORMANCE - H.265	
2MPX IP Camera	Recording up to: 200 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 200 main streams) • Playback up to: 8 main streams (while recording: 200 main streams)
4MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording:





160 main streams) • Playback up to: 8 main streams (while

recording: 160 main streams)





NMS IP Recorder NMS NVR X-2U-III-192TB

5MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 120 main streams) • Playback up to: 4 main streams (while recording: 120 main streams)
8MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)
12MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)
RECORDING	
Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s
PLAYBACK	
Recorded Data Search	By Date/Time, Events, "Text-in", Image Analysis Events
BACKUP	
Backup Methods	USB port (HDD lor Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS
HDD	
Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	12 x 16TB SAS 3,5" 16TB surviliance grade server storage media
RAID Redundancy	RAID types: RAID 0, RAID 1, RAID 5, RAID 6
ALARMS	
Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera
NETWORK	
Network Interface	2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s
Network Throughput	up to 450Mbit/s from all cameras • up to 450Mbit/s to all client stations • Max network throughput: 450Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	NMS Mobile
PTZ	
PTZ Functions	pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris
ADDITIONAL INTERFACES	









NMS IP Recorder NMS NVR X-2U-III-192TB

OPERATING SYSTEM

OPERATING SYSTEM	
Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	NMS, Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections
INTEGRATION	
Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS- ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices
INSTALLATION PARAMETERS	
Dimensions	437mm (W) x 89mm(H) x 648mm (D)
Weight	24 kg (with HDDs)
Power Supply	built in 2 x redundant power supply 230VAC input with 960W power each
Power consumption/heatprint	490W/400W (without HDD for recording)
Operating Temperature	5°C ~ 35°C
RACK Mount 19"	2U

Attention: To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.







NOVUS

NMS IP Recorder

NMS NVR X-2U-III-216TB





KEY FEATURES













- •Video and audio channels: 200
- •Supports resolution up to 4000 x 3000
- •Recorded stream size: 450 Mb/s in total from all cameras
- •Supports up to 3 monitors simultaneously
- \bullet Built-in HDDs: 12 x 18 TB server-dedicated SAS for 24/7 recording
- RAID controller protects recordings
- External arrays support
- •Operating system: Microsoft Windows 10 IoT
- •Recording and surveillance system: NMS (Novus Management System)
- •Compatible with all NOVUS IP cameras
- •Redundant PSUs: 2

DIMENSIONS



VIDEO	
IP Camera Recording	160 channels at 1920x1080 (video+audio) using H.264 codec • 200 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes
DISPLAY	
Monitor Output	3 x Mini Display Port 1.2, (up to 3 monitors simultaneously)

Monitor Output 3 x Mini Display Port 1.2, (up to 3 monitors simultaneously) Maximum Resolution 3 x 4K UltraHD

AUDIO	
Audio Output	3 x Mini Display Port 1.2

PERFORMANCE - H.264

2MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)
4MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 120 main streams) • Playback up to: 8 main streams (while recording: 120 main streams)
5MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 100 main streams) • Playback up to: 8 main streams (while recording: 8 main streams)
8MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 6 main streams (while recording: 80 main streams) • Playback up to: 6 main streams (while recording: 80 main streams)
12MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 80 main streams) • Playback up to: 4 main streams (while recording: 80 main streams)

PERFORMANCE - H.265

2MPX IP Camera	Recording up to: 200 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 200 main streams) • Playback up to: 8 main streams (while recording: 200 main streams)
4MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)









NMS IP Recorder NMS NVR X-2U-III-216TB

5MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 120 main streams) • Playback up to: 4 main streams (while recording: 120 main streams)
8MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)
12MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)
RECORDING	
Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s
PLAYBACK	
Recorded Data Search	By Date/Time, Events, "Text-in", Image Analysis Events
BACKUP	
Backup Methods	USB port (HDD lor Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS
HDD	
Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	12 x 18TB SAS 3,5" 18TB surviliance grade server storage media
RAID Redundancy	RAID types: RAID 0, RAID 1, RAID 5, RAID 6
ALARMS	
Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera
NETWORK	
Network Interface	2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s
Network Throughput	up to 450Mbit/s from all cameras • up to 450Mbit/s to all client stations • Max network throughput: 450Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	NMS Mobile
PTZ	
PTZ Functions	pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris
ADDITIONAL INTERFACES	
USB Ports	4 x USB 3.2 • 2 x USB 2.0









NMS IP Recorder NMS NVR X-2U-III-216TB

OPERATING SYSTEM

OPERATING SYSTEM	
Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	NMS, Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections
INTEGRATION	
Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS- ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices
INSTALLATION PARAMETERS	
Dimensions	437mm (W) x 89mm(H) x 648mm (D)
Weight	24 kg (with HDDs)
Power Supply	built in 2 x redundant power supply 230VAC input with 960W power each
Power consumption/heatprint	490W/400W (without HDD for recording)
Operating Temperature	5°C ~ 35°C
RACK Mount 19"	2U

Attention: To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.







NoVus

NMS IP Recorder

NMS NVR X-2U-III-240TB





KEY FEATURES



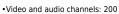






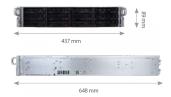






- •Supports resolution up to 4000 x 3000
- •Recorded stream size: 450 Mb/s in total from all cameras
- •Supports up to 3 monitors simultaneously
- \bullet Built-in HDDs: 12 x 20 TB server-dedicated SAS for 24/7 recording
- •RAID controller protects recordings
- External arrays support
- •Operating system: Microsoft Windows 10 IoT
- •Recording and surveillance system: NMS (Novus Management System)
- •Compatible with all NOVUS IP cameras
- •Redundant PSUs: 2

DIMENSIONS



VIDEO

VIDEO	
IP Camera Recording	160 channels at 1920x1080 (video+audio) using H.264 codec • 200 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes
DISPLAY	
Monitor Output	3 x Mini Display Port 1.2, (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD
AUDIO	
Audio Output	3 x Mini Display Port 1.2
PERFORMANCE - H.264	
2MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)
4MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 120 main streams) • Playback up to: 8 main streams (while recording: 120 main streams)
5MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 100 main streams) • Playback up to: 8 main streams (while recording: 8 main streams)
8MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 6 main streams (while recording: 80 main streams) • Playback up to: 6 main streams (while recording: 80 main streams)
12MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 80 main streams) • Playback up to: 4 main streams (while recording: 80 main streams)
PERFORMANCE - H.265	
2MPX IP Camera	Recording up to: 200 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 200 main streams) • Playback up to: 8 main streams (while recording: 200 main streams)
4MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)









NMS IP Recorder NMS NVR X-2U-III-240TB

5MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 120 main streams) • Playback up to: 4 main streams (while recording: 120 main streams)
8MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)
12MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)
RECORDING	
Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alaram input, motion detection, video analysis, POS, temerature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s
PLAYBACK	
Recorded Data Search	By Date/Time, Events, "Text-in", Image Analysis Events
BACKUP	
Backup Methods	USB port (HDD lor Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS
HDD	
Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	12 x 20TB SAS 3,5" 20TB surviliance grade server storage media
RAID Redundancy	RAID types: RAID 0, RAID 1, RAID 5, RAID 6
ALARMS	
Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera
NETWORK	
Network Interface	2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s
Network Throughput	up to 450Mbit/s from all cameras • up to 450Mbit/s to all client stations • Max network throughput: 450Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	NMS Mobile
PTZ	
PTZ Functions	pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris
ADDITIONAL INTERFACES	
USB Ports	4 x USB 3.2 • 2 x USB 2.0









NMS IP Recorder NMS NVR X-2U-III-240TB

OPERATING SYSTEM	
Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	NMS, Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections
INTEGRATION	
Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS- ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices
INSTALLATION PARAMETERS	
Dimensions	437mm (W) x 89mm(H) x 648mm (D)
Weight	24 kg (with HDDs)
Power Supply	built in 2 x redundant power supply 230VAC input with 960W power each
Power consumption/heatprint	490W/400W (without HDD for recording)
Operating Temperature	5°C ~ 35°C
RACK Mount 19"	2U

Attention: To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.

















NMS licence dongle

A license in the form of a hardware USB key enabling connection of 4 devices following the RTSP/HTTP protocol to NMS NVR recorders and NMS software installed on a PC.









NMS licence for 8 x RTSP/HTTP channels

NMS - 8 x RTSP/HTTP





NMS licence dongle

A license in the form of a hardware USB key enabling connection of 8 devices following the RTSP/HTTP protocol to NMS NVR recorders and NMS software installed on a PC.









NMS licence for 16 x RTSP/HTTP channels

NMS - 16 x RTSP/HTTP





NMS licence dongle

A license in the form of a hardware USB key enabling connection of 16 devices following the RTSP/HTTP protocol to NMS NVR recorders and NMS software installed on a PC.







NMS licence for 4 x ONVIF channels

NMS - 4 x ONVIF





NMS licence dongle

A license in the form of a hardware USB key enabling connection of 4 devices following the ONVIF protocol to NMS NVR recorders and NMS software installed on a PC.









NMS licence for 8 x ONVIF channels

NMS - 8 x ONVIF





NMS licence dongle

A license in the form of a hardware USB key enabling connection of 8 devices following the ONVIF protocol to NMS NVR recorders and NMS software installed on a PC.









NMS licence for 16 x ONVIF channels

NMS - 16 x ONVIF





NMS licence dongle

A license in the form of a hardware USB key enabling connection of 16 devices following the ONVIF protocol to NMS NVR recorders and NMS software installed on a PC.











NOVUS

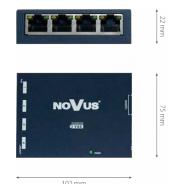
4-port PoE+ Switch **NVS-3304SP**



KEY FEATURES

- •4 x 100Mb/s PoE+
- •2 x 100Mb/s UPLINK

DIMENSIONS



GENERAL

Device Type	PoE+ Switch
NETWORK	
Ports	PoE+ Ports: 4 x 10Mb/s / 100Mb/s (at the same time the number of available ports on the PoE + mode, limited by capacity power supply) • UPLINK ports: 2 x 10Mb/s / 100Mb/s
PoE standards	IEEE802.3 af, IEEE802.3 at
PoE modes	Endspan (1,2+ / 3,6-)
Switching capacity	1.2 Gb/s
Protocols Support	IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX
MAC ADDRESS list	1K
FUNCTIONS	

ССТУ	Extended mode switch that increases transmission range and PoE up to 150 - 250m (Using 10 Mb/s bandwidth)
Additional operating modes	Extended
Surge protection	yes

INSTALLATION PARAMETERS

Case	Metal, color navy blue
Dimensions (mm)	102 (W) x 22 (H) x 75 (L)
Weight	300 g
Power Supply	53 VDC (power supply 100 ~ 240 VAC/53 VDC included)
Power Consumption	60 W
Power Efficiency	55 W for ports 1 to 4, up to 30 W for one port
Operating Temperature	0°C ~ 40°C
Relative humidity	0÷85% (non condensing)

Maximum ranges depend on cable quality, interference and camera model. The ranges were determined in laboratory conditions. For information on the exact ranges for a given camera connection and switches please contact support or perform tests in the real environment of the future operation of the devices.







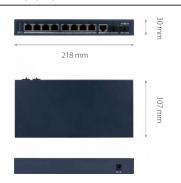
8-port PoE+ Switch NVS-3208SP



KEY FEATURES

- •8 x 100Mb/s PoE+
- •1 x 1000Mb/s UPLINK, 2 x 1000Mb/s SFP UPLINK

DIMENSIONS



GENERAL

GENTERVAL	
Device Type	PoE+ Switch
NETWORK	
Ports	PoE+ Ports: 8 x 10Mb/s / 100Mb/s (at the same time the number of available ports on the PoE + mode, limited by capacity power supply) • Optical UPLINK ports: 1 x SFP • Uplink Combo x 1 :SFP(1Gb/s) + RJ45(1Gb/s)
PoE standards	IEEE802.3 af, IEEE802.3 at
PoE modes	Endspan (1,2+ / 3,6-)
Switching capacity	5.6 Gb/s
Protocols Support	IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3x
MAC ADDRESS list	4K

Case	Metal, color navy blue
Dimensions (mm)	218 (W) x 30 (H) x 107 (L)
Weight	600 g
Power Supply	53 VDC (power supply 100 ~ 240 VAC/53 VDC included)
Power Consumption	120 W
Power Efficiency	115 W for ports 1 to 8, up to 30 W for one port
Operating Temperature	0°C ~ 40°C







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Hardened 8-port PoE+ Switch

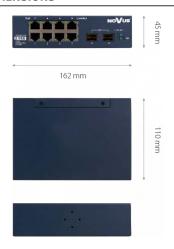
NVS-3208SP-EH



KEY FEATURES

- •8 x 100Mb/s PoE+
- •2 x 1000Mb/s SFP UPLINK
- •Operating temperature: -40°C \div 70°C

DIMENSIONS



GENERAL

Device Type	Hardened PoE+ switch
NETWORK	
Ports	PoE+ Ports: 8 x 10Mb/s / 100Mb/s (at the same time the number of available ports on the PoE + mode, limited by capacity power supply) Optical UPLINK ports: 2 x SFP
PoE standards	IEEE802.3 af, IEEE802.3 at
PoE modes	Endspan (1,2+ / 3,6-)
Switching capacity	5.6 Gb/s
Protocols Support	IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3x
MAC ADDRESS list	4K

INSTALLATION PARAMETERS	
Case	Metal, color navy blue, enclosure with possibility to mount on DIN TH35 rail
Dimensions (mm)	162 (W) x 110 (H) x 45 (L)
Weight	700 g
Power Supply	48 VDC (power supply 100 ~ 240 VAC/48 VDC Included)
Power Consumption	144 W
Power Efficiency	130 W for ports 1 to 8, up to 30 W for one port
Operating Temperature	-40°C ~ 70°C









8-port PoE+ Switch **NVS-3308SP**



KEY FEATURES

- •8 x 100Mb/s PoE+
- •2 x 1000Mb/s UPLINK, 2 x 1000Mb/s SFP UPLINK

DIMENSIONS







GENERAL

Device Type	PoE+ Switch
NETWORK	
Ports	PoE+ Ports: 8×10 Mb/s / 100 Mb/s (at the same time the number of available ports on the PoE + mode, limited by capacity power supply) • Uplink Combo $\times 2:$ SFP(1Gb/s) + RJ45(1Gb/s)
PoE standards	IEEE802.3 af, IEEE802.3 at
PoE modes	Endspan (1,2+ / 3,6-)
Switching capacity	5.6 Gb/s
Protocols Support	IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T, IEEE 802.3z 1000BASE-SX\LX
MAC ADDRESS list	4K
FUNCTIONS	
CCTV	Extended mode switch that increases transmission range and PoE up

CCTV	Extended mode switch that increases transmission range and PoE up to 150 - 250m (Using 10 Mb/s bandwidth)
Additional operating modes	VLAN, Extended

INSTALLATION TANAPIETENS	
RACK Mount 19"	10
Case	Metal, color navy blue
Dimensions (mm)	270 (W) x 44 (H) x 180 (L)
Weight	1.2 kg
Power Supply	100 ~ 240 VAC, 50/60Hz
Power Consumption	130 W
Power Efficiency	120 W for ports 1 to 8, up to 30 W for one port
Operating Temperature	0°C ~ 40°C









8-port PoE + switch with the possibility of mounting on a DIN rail

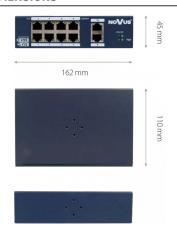
NVS-3308SP-DIN



KEY FEATURES

- •8 x 100Mb/s PoE+
- •2 x 1000Mb/s UPLINK
- •Operating temperature: $0^{\circ}\text{C} \div 40^{\circ}\text{C}$

DIMENSIONS



GENERAL

Device Type	PoE+ Switch
NETWORK	
Ports	PoE+ Ports: 8 x 10Mb/s / 100Mb/s (at the same time the number of available ports on the PoE + mode, limited by capacity power supply) • Ports RJ-45 UPLINK 1Gb/s: 2
PoE standards	IEEE802.3 af, IEEE802.3 at
PoE modes	Endspan (1,2+ / 3,6-)
Switching capacity	5.6 Gb/s
Protocols Support	IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3x
MAC ADDRESS list	4K

INSTALLATION PARAMETERS

INSTALLATION FARAPLETERS	
Case	Metal, color navy blue, enclosure with possibility to mount on DIN TH35 rail
Dimensions (mm)	162 (W) x 110 (H) x 45 (L)
Weight	700 g
Power Supply	48 - 56VDC
Power Consumption	120 W
Power Efficiency	114 W for ports 1 to 8, up to 30 W for one port
Operating Temperature	0°C ~ 40°C

Note that for the device to work properly, you need to buy a power supply with parameters in accordance with the specification.









16-port PoE+ Switch **NVS-3316SP**

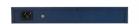


KEY FEATURES

- •16 x 100Mb/s PoE+
- $m ullet 2 \ x \ 1000 Mb/s \ UPLINK, \ 2 \ x \ 1000 Mb/s \ SFP \ UPLINK$

DIMENSIONS





GENERAL	
Device Type	PoE+ Switch
NETWORK	
Ports	PoE+ Ports: 16 x 10Mb/s / 100Mb/s (the number of ports simultaneously operating with PoE + mode is limited by PoE budget) • Uplink Combo x 2 :SFP(1Gb/s) + RJ45(1Gb/s)
PoE standards	IEEE802.3 af, IEEE802.3 at
PoE modes	Endspan (1,2+ / 3,6-)
Switching capacity	7.2 Gb/s
Protocols Support	IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T, IEEE 802.3z 1000BASE-SX\LX
MAC ADDRESS list	16K
FUNCTIONS	
CCTV	Extended mode switch that increases the data and power transmission distance up to 200m (Using 10 Mb/s bandwidth)
Additional operating modes	VLAN, Extended

INSTALLATION PARAMETERS		
RACK Mount 19"	10	
Case	Metal, color navy blue	
Dimensions (mm)	320 (W) x 44 (H) x 207 (L)	
Weight	2.4 kg	
Input Voltage	100 ~ 240 VAC, 50/60Hz	
Power Consumption	210 W (maximum)	
PoE Budget	200 W for ports 1 to 16, up to 30 W for one port	
Operating Temperature	0°C ~ 40°C	









16-port PoE+ Managed Switch **NVS-5116SP**



KEY FEATURES

- •16 x 100Mb/s PoE+
- •2 x 1000Mb/s UPLINK, 4 x 1000Mb/s SFP UPLINK •Operating temperature: 0°C ÷ 40°C

DIMENSIONS



GENERAL	
Device Type	PoE+ Managed Switch
NETWORK	
Ports	PoE+ Ports: 16 x 10Mb/s / 100Mb/s (at the same time the number of available ports on the PoE + mode, limited by capacity power supply) • UPLINK SFP port 1Gb/s x2 • Uplink Combo x 2 :SFP(1Gb/s) + RJ45(1Gb/s)
PoE standards	IEEE802.3 af, IEEE802.3 at
PoE modes	Endspan (1,2+ / 3,6-)
Switching capacity	11.2 Gb/s
Protocols Support	IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T, IEEE 802.3z 1000BASE-SX\LX, IEEE 802.3x, IEEE 802.1p CoS, IEEE 802.1D spanning tree protocol, IEEE 802.1s multiple tree protocol, IEEE 802.1ad LACP aggregation, IEEE 802.1Q VLAN tagging
Additional network features	VLAN, IGMP snooping, bandwidth management
QoS support	yes
CoS support	yes
Jumbo frame (bytes)	2K
MAC ADDRESS list	8K
FUNCTIONS	
Buttons	1 button to device reset
Surge protection	yes
INSTALLATION PARAMETERS	
RACK Mount 19"	10
Case	Metal, color navy blue
Dimensions (mm)	200 (W) x 44 (H) x 440 (L)
Weight	2.9 kg
Power Supply	100 ~ 240 VAC, 50/60Hz
Power Consumption	270 W
Power Efficiency	250 W for ports 1 to 16, up to 30 W for one port

The values was achieved in a test environment. In different environment this value can change due to interferences or influence of other devices.

0°C ~ 40°C







Operating Temperature



24-port PoE+ Managed Switch **NVS-5124SP**



KEY FEATURES

- •24 x 100Mb/s PoE+
- •2 x 1000Mb/s UPLINK, 4 x 1000Mb/s SFP UPLINK
- •Operating temperature: 0°C ÷ 40°C

DIMENSIONS



GENERAL

Device Type	PoE+ Managed Switch
NETWORK	
Ports	PoE+ Ports: 24 x 10Mb/s / 100Mb/s (at the same time the number of available ports on the PoE + mode, limited by capacity power supply) • UPLINK SFP port 1Gb/s x2 • Uplink Combo x 2 :SFP(1Gb/s) + RJ45(1Gb/s)
PoE standards	IEEE802.3 af, IEEE802.3 at
PoE modes	Endspan (1,2+ / 3,6-)
Switching capacity	12.8 Gb/s
Protocols Support	IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T, IEEE 802.3z 1000BASE-SX\LX, IEEE 802.3x, IEEE 802.1p CoS, IEEE 802.1D spanning tree protocol, IEEE 802.1s multiple tree protocol, IEEE 802.1ad LACP aggregation, IEEE 802.1Q VLAN tagging
Additional network features	VLAN, IGMP snooping, bandwidth management
QoS support	yes
CoS support	yes
Jumbo frame (bytes)	2K
MAC ADDRESS list	8K
FUNCTIONS	
Buttons	1 button to device reset
Surge protection	yes
INSTALLATION PARAMETERS	
RACK Mount 19"	10
Case	Metal, color navy blue
Dimensions (mm)	200 (W) x 44 (H) x 440 (L)
Weight	3.2 kg
Power Supply	100 ~ 240 VAC, 50/60Hz
Power Consumption	400 W
Power Efficiency	370 W for ports 1 to 24, up to 30 W for one port
Operating Temperature	0°C ~ 40°C

The values was achieved in a test environment. In different environment this value can change due to interferences or influence of other devices.













SFP Module **NV-02SFP/S**



KEY FEATURES

•1 x 1000Mb/s LC

GENERAL

Device Type	SFP Module
NETWORK	
Speed transmission	1 Gb/s
Transmit Wavelength	1310 nm
Receiver Sensitivity	-24 dBm
Emission Light Power	-9 dBm ~ -3 dBm
Transmission medium	Single-Mode fiber 9/125 um
Connector type	Duplex LC(UPC)

Dimensions (mm)	13.7 (W) x 56.6 (H) x 12.4 (L)
Weight	17 g
Operating Temperature	0°C ~ 70°C









SFP Module **NV-03SFP/M**



KEY FEATURES

•1 x 1000Mb/s LC

GENERAL

Device Type	SFP Module
NETWORK	
Speed transmission	1 Gb/s
Transmit Wavelength	850 nm
Receiver Sensitivity	-24 dBm
Emission Light Power	-9 dBm ~ -3 dBm
Transmission medium	Multi-Mode fiber 50/125 um
Connector type	Duplex LC(UPC)

Dimensions (mm)	13.7 (W) x 56.6 (H) x 12.4 (L)
Weight	17 g
Operating Temperature	0°C ~ 70°C









PoE Extender **NV-101EP**



KEY FEATURES

•1 x 1000Mb/s PoE

DIMENSIONS





GENERAL

Device Type	PoE Extender
NETWORK	
PoE standards	IEEE802.3 af, IEEE802.3 at
PoE modes	Endspan (1,2+ / 3,6-)
Protocols Support	IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T
Transmission range	The maximum transmission range using 1 x NVS-101EP is 200m, maximum power output: 25W \bullet The maximum transmission range using 2 x NVS-101EP is 300m, maximum power output: 20W
Connector type	Hermetic RJ45 connector

INSTALLATION PARAMETERS

Case	Metal, color black
Dimensions (mm)	45 (W) x 45 (H) x 205 (L)
Weight	250 g
Power Supply	48 - 56VDC
Power Consumption	30 W
Power Efficiency	25 W
Operating Temperature	-25°C ~ 55°C

Maximum ranges depend on cable quality, interference and camera model. The ranges were determined in laboratory conditions. For information on the exact ranges for a given camera connection and switches please contact support or perform tests in the real environment of the future operation of the devices.







PoE Injector

NV-8000PS/HP



KEY FEATURES

•1 x 1000Mb/s High PoE

GENERAL

Device Type NETWORK	High PoE injector	
Transmission Distance	1 ports in PoE mode: 100 m	
PoE standards	IEEE802.3 af, IEEE802.3 at	
PoE modes	Endspan (1,2+ / 3,6-), Midspan (4,5+ / 7,8-)	
Surge protection	Maximum voltage: 3kV	

INSTALLATION PARAMETERS

Case	Metal, color black
Dimensions (mm)	71 (W) x 37 (H) x 185 (L)
Weight	480 g
Power Supply	100 ~ 240 VAC, 50/60Hz
Power Consumption	64 W
Power Efficiency	60 W
Operating Temperature	-20°C ~ 60°C
Connector	Input: 1 x RJ45 / Output 1 x RJ45

Transmission distance values was achieved in a test environment. In different environment this value can change due to interferences or influence of other devices.





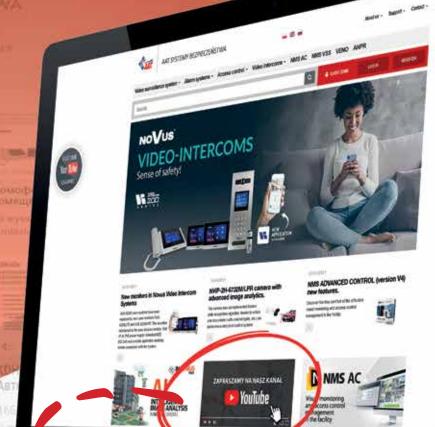


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MULTISTANDARD SYSTEMS

AHD, CVI, TVI, 960H





Classic AHD Multistandard Camera

NVAHD-2DN5100MC-1





KEY FEATURES









- •D/N function IR cut filter
- •resolution 1080p
- •multistandard: AHD, CVI, TVI, 960H
- •Min. Illumination from 0.0001 lx

DIMENSIONS











IMAGE

IMAGE	
Image Sensor	CMOS sensor 1/2.9" SONY
Operating mode	AHD 1080p, TVI 1080p, CVI 1080p, analog 960H
Number of Effective Pixels	1920 (H) x 1080 (V)
Resolution	1080p
Min. Illumination	0.1 x/F1.4 - color mode • 0.05 x/F1.4 - B/W mode • 0.005 x/F1.4 - color mode (DSS) • 0.0001 x/F1.4 - B/W mode (DSS)
S/N Ratio	> 52 dB (AGC off)
Electronic Shutter	auto/manual: 1/25 s ~ 1/50000 s (AHD),
Digital Slow Shutter (DSS)	up to 30x
High Light Compensation (HLC)	yes
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
LENS	
Compatible Mount Type	C, CS
Iris Mode	D

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual
Switching Level Adjustment	yes
Switching Delay	0 ~ 60 s

OTHER FUNCTIONS

OSD	languages: Polish, English, Russian, others
Privacy Zones	4
Motion Detection	yes
Image Processing	180° image rotation, sharpening, mirror effect
Remote control	Yes (COAX protocol)

INTERFACES

Video Output BNC, 1.0 Vp-p, 75 Ohm

Dimensions (mm)	58 (W) x 62 (H) x 125 (L)
Weight	0.34 kg
Enclosure	aluminium, white









Classic AHD Multistandard Camera NVAHD-2DN5100MC-1

Power Supply	12 VDC
Power Consumption	1.1 W
Operating Temperature	-30°C ~ 40°C

^{*} Lens not included







Classic AHD Multistandard Camera

NVAHD-2DN5100MC-3





KEY FEATURES











- •D/N function IR cut filter
- •resolution 1080p
- •multistandard: AHD, CVI, TVI, 960H
- •Min. Illumination from 0.0001 lx

DIMENSIONS



IMAGE

IMAGE	
Image Sensor	CMOS sensor 1/2.9" SONY
Operating mode	AHD 1080p, TVI 1080p, CVI 1080p, analog 960H
Number of Effective Pixels	1920 (H) x 1080 (V)
Resolution	1080p
Min. Illumination	0.1 lx/F1.4 - color mode • 0.05 lx/F1.4 - B/W mode • 0.005 lx/F1.4 - color mode (DSS) • 0.0001 lx/F1.4 - B/W mode (DSS)
S/N Ratio	> 52 dB (AGC off)
Electronic Shutter	auto/manual: 1/25 s \sim 1/50000 s (AHD), 1/50 s \sim 1/50000 s (analog 960H)
Digital Slow Shutter (DSS)	up to 30x
High Light Compensation (HLC)	yes
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
LENS	
Compatible Mount Type	C, CS
Iris Mode	D
DAY/NIGHT	
Switching Type	mechanical IR cut filter
Switching Mode	auto, manual
Switching Level Adjustment	yes

OTHER FUNCTIONS

Switching Delay

OSD	languages: Polish, English, Russian, others
Privacy Zones	4
Motion Detection	yes
Image Processing	180° image rotation, sharpening, mirror effect
Remote control	Yes (COAX protocol)

0 ~ 60 s

INTERFACES

Video Output BNC, 1.0 Vp-p, 75 Ohm

Dimensions (mm)	58 (W) x 62 (H) x 125 (L)
Weight	0.39 kg









Classic AHD Multistandard Camera NVAHD-2DN5100MC-3

Enclosure	aluminium, white
Power Supply	100 ~ 230 VAC
Power Consumption	2.3 W
Operating Temperature	-30°C ~ 40°C

^{*} Remote controller type: NV-RCUTC-35HD / Lens not included







Dome AHD Multistandard Camera

NVAHD-2DN5102MD/IR-1





KEY FEATURES













87 mm

- •D/N function IR cut filter
- •resolution 1080p
- •Lens: varifocal, $f=2.8 \sim 12 \text{ mm/F}1.4$
- •Smart IR function
- •Extended IR LED life
- •multistandard: AHD, CVI, TVI, 960H
- •Min. Illumination from 0.0001 lx (0 lx, IR on)
- •IR LED, range up to 15 m

DIMENSIONS







IMAGE

Image Sensor	CMOS sensor 1/2.9" SONY
Operating mode	AHD 1080p, TVI 1080p, CVI 1080p, analog 960H
Number of Effective Pixels	1920 (H) x 1080 (V)
Resolution	1080p
Min. Illumination	0.1 lx/F1.4 - color mode • 0.05 lx/F1.4 - B/W mode • 0.005 lx/F1.4 - color mode (DSS) • 0.0001 lx/F1.4 - B/W mode (DSS) • 0 lx (IR on) - B/W mode
S/N Ratio	> 52 dB (AGC off)
Electronic Shutter	auto/manual: 1/25 s ~ 1/50000 s (AHD),
Digital Slow Shutter (DSS)	up to 30x
High Light Compensation (HLC)	yes
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes

LENS

Lens Type	varifocal, f=2.8 ~ 12 mm/F1.4
LCII3 Type	variocal, 1-2.0 - 12 mm/ 1

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual
Switching Level Adjustment	yes
Switching Delay	0 ~ 60 s
Visible Light Sensor	yes

OTHER FUNCTIONS

OSD	languages: Polish, English, Russian, others
Privacy Zones	4
Motion Detection	yes
Image Processing	180° image rotation, sharpening, mirror effect
Remote control	Yes (COAX protocol)

IR LED

IK LED		
LED Number	24	
Range	15 m	
Angle	120°	

INTERFACES









Dome AHD Multistandard Camera NVAHD-2DN5102MD/IR-1

Video Output BNC, 1.0 Vp-p, 75 Ohm

Dimensions (mm)	112 (Φ) x 87 (H)
Weight	0.17 kg
Enclosure	plastic, white
Power Supply	12 VDC
Power Consumption	1 W • 2.7 W (IR on)
Operating Temperature	-30°C ~ 40°C

^{*} Note: UTC functionality available on cameras with serial numbers starting from: 150611xxxx Remote controller type: NV-RCUTC-35HD







Vandal Proof AHD Multistandard Camera

NHDC-2VE-6101





KEY FEATURES











83 mm

- •D/N function IR cut filter
- •resolution 1080p
- •Lens: fixed focal, f=2.8 mm/F2.2
- •Smart IR function
- •multistandard: AHD, CVI, TVI, 960H
- •IR LED, range up to 30 m

DIMENSIONS







IMAGE

Image Sensor	CMOS sensor 1/2.7" SUPERPIX
Operating mode	AHD 1080p, AHD 720p, TVI 1080p, TVI 720p, CVI 1080p, CVI 720p, analog 960H
Number of Effective Pixels	1920 (H) x 1080 (V)
Resolution	1080p
Min. Illumination	0 lx (IR on) - B/W mode
S/N Ratio	> 52 dB (AGC off)
Electronic Shutter	auto/manual: 1/50 s ~ 1/100000 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D

LENS Lens Type

DAY/NIGHT	
Switching Type	mechanical IR cut filter
Switching Mode	auto, manual
Visible Light Sensor	yes

fixed focal, f=2.8 mm/F2.2

OTHER FUNCTIONS

OSD	languages: English, others
Image Processing	Defective Pixel Correction (DPC), sharpening
Remote control	Yes (COAX protocol)
IR LED	
LED Number	1

LED Number	1	
Range	30 m	
Smart IR	yes (software support)	

INTERFACES

Video Output BNC, 1.0 Vp-p, 75 Ohm

Dimensions (mm)	95 (Φ) x 83 (H)
Weight	0.4 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof aluminium, white
Power Supply	12 VDC







Vandal Proof AHD Multistandard Camera NHDC-2VE-6101

Power Consumption	1 W • 4 W (IR on)
Operating Temperature	-30°C ~ 50°C
Humidity	max. 90%, relative (non-condensing)







Vandal Proof AHD Multistandard Camera

NHDC-2VE-6302





KEY FEATURES











100 mm

- •D/N function IR cut filter
- •resolution 1080p
- •Lens: varifocal, $f=2.8 \sim 12 \text{ mm/F}1.4$
- •Smart IR function
- •multistandard: AHD, CVI, TVI, 960H
- •IR LED, range up to 50 m

DIMENSIONS







IMAGE

Image Sensor	CMOS sensor 1/2.9" SMARTSENS
Operating mode	AHD 1080p, AHD 720p, TVI 1080p, TVI 720p, CVI 1080p, CVI 720p, analog 960H
Number of Effective Pixels	1920 (H) x 1080 (V)
Resolution	1080p
Min. Illumination	0 lx (IR on) - B/W mode
S/N Ratio	> 52 dB (AGC off)
Electronic Shutter	auto/manual: 1/50 s ~ 1/100000 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D

LENS

Lens Type	varifocal, $f=2.8 \sim 12 \text{ mm/F}1.4$

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual
Visible Light Sensor	yes

OTHER FUNCTIONS

OSD	languages: English, others
Image Processing	180° image rotation, sharpening
Remote control	Yes (COAX protocol)

IR LED

LED Number	2
Range	50 m

INTERFACES

Video Output BNC, 1.0 Vp-p, 75 Ohm

Dimensions (mm)	112 (Ф) x 100 (H)
Weight	0.62 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof aluminium, white
Power Supply	12 VDC
Power Consumption	1 W • 4 W (IR on)





Vandal Proof AHD Multistandard Camera NHDC-2VE-6302

Operating Temperature	-30°C ~ 50°C
Humidity	max. 90%, relative (non-condensing)

^{*} Note: UTC functionality available on cameras with serial numbers starting from: 150611xxxx Remote controller type: NV-RCUTC-35HD







Bullet AHD Multistandard Camera NHDC-2H-6101





KEY FEATURES











- •D/N function IR cut filter
- •resolution 1080p
- •Lens: fixed focal, f=2.8 mm/F2.2
- •Smart IR function
- •multistandard: AHD, CVI, TVI, 960H
- •IR LED, range up to 30 m

DIMENSIONS









170 mm

IMAGE

Image Sensor	CMOS sensor 1/2.7" SUPERPIX
Operating mode	AHD 1080p, AHD 720p, TVI 1080p, TVI 720p, CVI 1080p, CVI 720p, analog 960H
Number of Effective Pixels	1920 (H) x 1080 (V)
Resolution	1080p
Min. Illumination	0 lx (IR on) - B/W mode
S/N Ratio	> 52 dB (AGC off)
Electronic Shutter	auto/manual: 1/50 s ~ 1/100000 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D

LENS

Lens Type	fixed focal, f=2.8 mm/F2.2

DAY/NIGHT

Switching Type	mechanical IR cut filter	
Switching Mode	auto, manual	
Visible Light Sensor	yes	

OTHER FUNCTIONS

OSD	languages: English, others	
Image Processing	Defective Pixel Correction (DPC), sharpening	
Remote control	Yes (COAX protocol)	

IR LED

LED Number	1
Range	30 m
Smart IR	yes (software support)

INTERFACES

Video Output BNC, 1.0 Vp-p, 75 Ohm

Dimensions (mm)	with bracket: 75 (W) x 75 (H) x 170 (L)
Weight	0.37 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included
Power Supply	12 VDC









Bullet AHD Multistandard Camera NHDC-2H-6101

Power Consumption	1 W • 4 W (IR on)
Operating Temperature	-30°C ~ 50°C
Humidity	max. 90%, relative (non-condensing)







Bullet AHD Multistandard Camera NHDC-2H-6101L





KEY FEATURES











- •D/N function IR cut filter
- •resolution 1080p
- •Lens: fixed focal, f=2.8 mm/F2.2
- •Smart IR function
- •multistandard: AHD, CVI, TVI, 960H
- •IR LED, range up to 20 m

DIMENSIONS



IMAGE

Image Sensor	CMOS sensor 1/2.7" SUPERPIX
Operating mode	AHD 1080p, AHD 720p, TVI 1080p, TVI 720p, CVI 1080p, CVI 720p, analog 960H
Number of Effective Pixels	1920 (H) x 1080 (V)
Resolution	1080p
Min. Illumination	0 Ix (IR on) - B/W mode
S/N Ratio	> 52 dB (AGC off)
Electronic Shutter	auto/manual: 1/50 s ~ 1/100000 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D

LENS Lens Type

DAY/NIGHT	
Switching Type	mechanical IR cut filter

fixed focal, f=2.8 mm/F2.2

3 71		
Switching Mode	auto, manual	
Visible Light Sensor	yes	

OTHER FUNCTIONS

OSD	languages: English, others
Image Processing	Defective Pixel Correction (DPC), sharpening
Remote control	Yes (COAX protocol)

IR LED

LED Number	1
Range	20 m
Smart IR	yes (software support)

INTERFACES

Video Output BNC, 1.0 Vp-p, 75 Ohm

Dimensions (mm)	with bracket: 75 (W) x 75 (H) x 170 (L)
Weight	0.25 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	plastic, white, fully cable managed wall mount bracket in-set included
Power Supply	12 VDC









Bullet AHD Multistandard Camera NHDC-2H-6101L

Power Consumption	1 W • 4 W (IR on)
Operating Temperature	-30°C ~ 50°C
Humidity	max. 90%, relative (non-condensing)







Bullet AHD Multistandard Camera NHDC-2H-6302





KEY FEATURES











- •D/N function IR cut filter
- •resolution 1080p
- •Lens: varifocal, f=2.8 \sim 12 mm/F1.4
- •Smart IR function
- •multistandard: AHD, CVI, TVI, 960H
- •IR LED, range up to 50 m

DIMENSIONS



220 mm

IMAGE

Image Sensor	CMOS sensor 1/2.9" SMARTSENS
Operating mode	AHD 1080p, AHD 720p, TVI 1080p, TVI 720p, CVI 1080p, CVI 720p, analog 960H
Number of Effective Pixels	1920 (H) x 1080 (V)
Resolution	1080p
Min. Illumination	0 lx (IR on) - B/W mode
S/N Ratio	> 52 dB (AGC off)
Electronic Shutter	auto/manual: 1/50 s ~ 1/100000 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D

LENS

Lens Type	varifocal, $f=2.8 \sim 12 \text{ mm/F1.4}$

DAY/NIGHT

Switching Type	mechanical IR cut filter	
Switching Mode	auto, manual	
Visible Light Sensor	yes	

OTHER FUNCTIONS

OSD	languages: English, others
Image Processing	Defective Pixel Correction (DPC), sharpening
Remote control	Yes (COAX protocol)

IR LED

LED Number	2
Range	50 m
Smart IR	yes (software support)

INTERFACES

Video Output BNC, 1.0 Vp-p, 75 Ohm

Dimensions (mm)	with bracket: 81 (W) x 81 (H) x 220 (L)
Weight	0.61 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included
Power Supply	12 VDC









Bullet AHD Multistandard Camera NHDC-2H-6302

Power Consumption	1 W • 4 W (IR on)
Operating Temperature	-30°C ~ 50°C
Humidity	max. 90%, relative (non-condensing)







Vandal Proof AHD Multistandard Camera

NHDC-5VE-5101





KEY FEATURES











- •D/N function IR cut filter
- •resolution 5MPX
- •Lens: fixed focal, f=3.6 mm/F2.0
- •Smart IR function
- •multistandard: AHD, CVI, TVI, 960H
- •IR LED, range up to 15 m

DIMENSIONS







IMAGE

Image Sensor	CMOS sensor 1/2.9" SMARTSENS
Operating mode	AHD 1080p, TVI 1080p, CVI 1080p, analog 960H, AHD 4MPX, AHD 5MPX, TVI 4MPX, TVI 5MPX, CVI 4MPX
Number of Effective Pixels	2592 (H) x 1944 (V)
Resolution	5MPX
Min. Illumination	0 lx (IR on) - B/W mode
S/N Ratio	> 52 dB (AGC off)
Electronic Shutter	auto: 1/50 s ~ 1/100000 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D

LENS Lens Type

DAY/NIGHT	
Switching Type	mechanical IR cut filter
Switching Mode	auto, manual
Visible Light Sensor	yes

fixed focal, f=3.6 mm/F2.0

OTHER FUNCTIONS

OSD	languages: English, others
Image Processing	Defective Pixel Correction (DPC), sharpening
Remote control	Yes (COAX protocol)
IR LED	
LED Number	18
Range	15 m

yes (software support)

INTERFACES

Smart IR

Video Output BNC, 1.0 Vp-p, 75 Ohm

Dimensions (mm)	94 (Φ) x 80 (H)
Weight	0.4 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	vandalproof aluminium, white
Power Supply	12 VDC







Vandal Proof AHD Multistandard Camera NHDC-5VE-5101

Power Consumption	2.5 W • 5.5 W (IR on)
Operating Temperature	-30°C ~ 40°C
Humidity	max. 90%, relative (non-condensing)







Vandal Proof AHD Multistandard Camera

NHDC-5VE-5102





KEY FEATURES











- •D/N function IR cut filter
- •resolution 5MPX
- •Lens: varifocal, f=2.7 \sim 13.5 mm/F1.8
- •Smart IR function
- •multistandard: AHD, CVI, TVI, 960H
- •IR LED, range up to 20 m

DIMENSIONS



120 mm (Ø)



IMAGE

Image Sensor	CMOS sensor 1/2.9" SMARTSENS
Operating mode	AHD 1080p, TVI 1080p, CVI 1080p, analog 960H, AHD 4MPX, AHD 5MPX, TVI 4MPX, TVI 5MPX, CVI 4MPX
Number of Effective Pixels	2592 (H) x 1944 (V)
Resolution	5MPX
Min. Illumination	0 lx (IR on) - B/W mode
S/N Ratio	> 52 dB (AGC off)
Electronic Shutter	auto: 1/50 s ~ 1/100000 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D

LENS Lens Type

DAY/NIGHT	
Switching Type	mechanical IR cut filter
Switching Mode	auto, manual

yes

varifocal, $f=2.7 \sim 13.5 \text{ mm/F}1.8$

OTHER FUNCTIONS

Visible Light Sensor

OSD	languages: English, others
Image Processing	Defective Pixel Correction (DPC), sharpening
Remote control	Yes (COAX protocol)
IR LED	
LED Number	24
Range	20 m
Smart IR	yes (software support)

INTERFACES

Video Output BNC, 1.0 Vp-p, 75 Ohm

Dimensions (mm)	120 (Φ) x 100 (H)
Weight	0.6 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	vandalproof aluminium, white
Power Supply	12 VDC







Vandal Proof AHD Multistandard Camera NHDC-5VE-5102

Power Consumption	2.5 W • 6.5 W (IR on)
Operating Temperature	-30°C ~ 40°C
Humidity	max. 90%, relative (non-condensing)







Bullet AHD Multistandard Camera NHDC-5H-5101





KEY FEATURES











- •D/N function IR cut filter
- •resolution 5MPX
- •Lens: fixed focal, f=3.6 mm/F2.0
- •Smart IR function
- •multistandard: AHD, CVI, TVI, 960H
- •IR LED, range up to 20 m

DIMENSIONS



175 mm

IMAGE

Image Sensor	CMOS sensor 1/2.9" SMARTSENS
Operating mode	AHD 1080p, TVI 1080p, CVI 1080p, analog 960H, AHD 4MPX, AHD 5MPX, TVI 4MPX, TVI 5MPX, CVI 4MPX
Number of Effective Pixels	2592 (H) x 1944 (V)
Resolution	5MPX
Min. Illumination	0 lx (IR on) - B/W mode
S/N Ratio	> 52 dB (AGC off)
Electronic Shutter	auto: 1/50 s ~ 1/100000 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D

LENS Lens Type

DAY/NIGHT	
Switching Type	mechanical IR cut filter
Switching Mode	auto, manual

fixed focal, f=3.6 mm/F2.0

yes

OTHER FUNCTIONS

Visible Light Sensor

OSD	languages: English, others
Image Processing	Defective Pixel Correction (DPC), sharpening
Remote control	Yes (COAX protocol)

IR LED

LED Number	24
Range	20 m
Smart IR	yes (software support)

INTERFACES

Video Output BNC, 1.0 Vp-p, 75 Ohm

Dimensions (mm)	with bracket: 70 (Φ) x 175 (L)
Weight	0.5 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included
Power Supply	12 VDC









Bullet AHD Multistandard Camera NHDC-5H-5101

Power Consumption	2.5 W • 6.5 W (IR on)
Operating Temperature	-30°C ~ 40°C
Humidity	max. 90%, relative (non-condensing)







Bullet AHD Multistandard Camera NHDC-5H-5102





KEY FEATURES











- •D/N function IR cut filter
- •resolution 5MPX
- •Lens: varifocal, f=2.7 \sim 13.5 mm/F1.8
- •Smart IR function
- •multistandard: AHD, CVI, TVI, 960H
- •IR LED, range up to 20 m

DIMENSIONS







220 mm

IMAGE

Image Sensor	CMOS sensor 1/2.9" SMARTSENS
Operating mode	AHD 1080p, TVI 1080p, CVI 1080p, analog 960H, AHD 4MPX, AHD 5MPX, TVI 4MPX, TVI 5MPX, CVI 4MPX
Number of Effective Pixels	2592 (H) x 1944 (V)
Resolution	5MPX
Min. Illumination	0 lx (IR on) - B/W mode
S/N Ratio	> 52 dB (AGC off)
Electronic Shutter	auto: 1/50 s ~ 1/100000 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D

LENS

Lens Type varifocal, f=2	2.7 ~ 13.5 mm/F1.8
--------------------------	--------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter	
Switching Mode	auto, manual	
Visible Light Sensor	yes	

OTHER FUNCTIONS

OSD	languages: English, others
Image Processing	Defective Pixel Correction (DPC), sharpening
Remote control	Yes (COAX protocol)

IR LED

LED Number	24
Range	20 m
Smart IR	yes (software support)

INTERFACES

Video Output BNC, 1.0 Vp-p, 75 Ohm

Dimensions (mm)	with bracket: 80 (W) x 80 (H) x 220 (L)
Weight	0.6 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included
Power Supply	12 VDC









Bullet AHD Multistandard Camera NHDC-5H-5102

Power Consumption	2.5 W • 6.5 W (IR on)
Operating Temperature	-30°C ~ 40°C
Humidity	max. 90%, relative (non-condensing)







Special Purpose AHD Multistandard Camera

NVAHD-2ATM-4011





KEY FEATURES











- •D/N function electronic
- •resolution 1080p
- •Lens: fixed focal, f=3.7 mm/F2.5
- •multistandard: AHD, CVI, TVI, 960H
- •Min. Illumination: 0.001 lx

DIMENSIONS







36 mm

IMAGE

Image Sensor	CMOS sensor 1/2.9"
Operating mode	AHD 1080p, TVI 1080p, CVI 1080p, analog 960H
Number of Effective Pixels	1985 (H) x 1105 (V)
Resolution	1080p
Min. Illumination	0.001 lx/F2.5 - color mode
S/N Ratio	> 52 dB (AGC off)
Electronic Shutter	auto/manual: 1/25 s ~ 1/50000 s
Digital Slow Shutter (DSS)	up to 30x
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes

LENS

Lens Type pinhole, f=3.7 mm/F2.5

DAY/NIGHT

Switching Type	electronic D/N function
Switching Mode	auto, manual
Switching Level Adjustment	yes
Switching Delay	0 ~ 60 s

OTHER FUNCTIONS

OSD	languages: Polish, English, Russian, others
Privacy Zones	4
Motion Detection	yes
Image Processing	180° image rotation, mirror effect, negative, picture-freeze
Remote control	Yes (COAX protocol)

INTERFACES

Video Output BNC, 1.0 Vp-p, 75 Ohm

Dimensions (mm)	36 (W) x 36 (H) x 24 (L) - sensor module
Weight	0.07 kg
Power Supply	12 VDC
Power Consumption	1 W
Operating Temperature	-30°C ~ 45°C







Wall/ceiling mount bracket indoor/outdoor **NVB-4005JB**





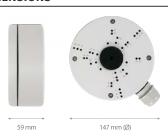
land, indoor/outdoor
ls of camera (detailed list of can be found on the website
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Wall/ceiling mount bracket indoor/outdoor **NVB-4000JB**





Туре	wall/ceiling mount adapter with cable gland, indoor/outdoor
Application	4000 series IP cameras and also 3000 series AHD cameras (detailed compatibility list available as a file to download in section "Downloadable Files")
Material	aluminium
Color	white
Load Capacity	3 kg
Dimensions (mm)	147 φ x 59 (height)
Weight	0.45 kg







Wall/ceiling mount bracket indoor/outdoor **NVB-8005JB**





Type	wall/ceiling mount bracket, indoor/outdoor
Application	Selected 8000 and 5000 series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	white
Load Capacity	4 kg
Degree of Protection	IP 66
Dimensions (mm)	142 φ x 51 (height)
Weight	0.6 kg







Wall/ceiling mount bracket indoor/outdoor **NVB-5300JB**





Туре	wall/ceiling mount adapter with cable gland, indoor/outdoor
Application	5000 series AHD cameras (detailed compatibility list available as a file to download in section "Downloadable Files")
Material	aluminium
Color	white
Load Capacity	3 kg
Dimensions (mm)	93 φ x 47 (height)
Weight	0.25 kg







Wall mount adapter

NVB-5100JBS



Туре	wall mount adapter
Application	5000 series AHD cameras (detailed compatibility list available as a file to download in section "Downloadable Files")
Material	aluminium
Color	white
Degree of Protection	IP 66
Dimensions (mm)	86.4 (W) x 146 (H) x 55 (D)
Weight	0.3 kg









Wall mount adapter

NVB-5100JBB



Туре	wall mount adapter
Application	5000 series AHD cameras (detailed compatibility list available as a file to download in section "Downloadable Files")
Material	aluminium
Color	white
Degree of Protection	IP 66
Dimensions (mm)	121.4 (W) x 204 (H) x 56 (D)
Weight	0.6 kg

Compatibility with NVAHD-xDN5102H, NVAHD-xDN5101H, NVAHD-xDN5104H, NVAHD-1DN5301H cameras only with S/N from 161007001









Pole mount adapter

NVB-5100PA



Туре	pole mount adapter
Application	3000, 6000 and 7000 series IP cameras and 5000 series AHD cameras (detailed compatibility list available as a file to download in section "Downloadable Files")
Material	aluminium
Color	white
Load Capacity	5 kg
Dimensions (mm)	120 (W) x 120 (H)
Weight	0.3 kg







Wall mount bracket, indor/outdoor

NVB-5100VB



Туре	wall mount cable-managed bracket, indoor/outdoor
Application	5000 series AHD cameras (detailed compatibility list available as a file to download in section "Downloadable Files")
Material	aluminium
Color	white
Load Capacity	15 kg
Dimensions (mm)	98 (W) x 70 (H) x 183 (L)
Weight	0.26 kg















NoVus

Passive video transmitter/receiver **NVPT-131VTP-HD**



GENERAL

Device Type	video transmitter and receiver set	
VIDEO TRANSMISSION		
Video Input/Output	1 x BNC, 1.0 Vp-p, 75 Ohm	
AHD 720p Signal Transmission Distance	Up to 300 m (with passive receivers)	
AHD 1080p Signal Transmission Distance	Up to 300 m (with passive receivers)	
AHD 5MPX Signal Transmission Distance	do 300 m (with passive receivers)	
COMMUNICATION BETWEEN TRANSMITTER AND RECEIVER		
Connector	Clamp connector	
Cable Type	CAT 5/5E/6 UTP Cable	
INSTALLATION PARAMETERS		
Operating Temperature	0°C~55°C	
Dimensions (mm)	32 (W) x 20 (H) x 65 (L)	
Weight	Transmitter: 25 g, Receiver: 25 g	
Case	Plastic, black	

The transmission parameters are valid for devices from the serial number: 41216210801











Multistandard AHD Recorder

NHDR-4104-H1





KEY FEATURES























- •Video channels: 4, audio channels: 4
- •Recording speed: up to 120 fps (AHD), up to 180 fps (IP)
- •Internal HDDs mount: up to 1
- •Monitor outputs: 3 (2 x main, 1 x spot)
- •Supports HD analog cameras (720p, 1080p, 4MPX, 5MPX)
- •Supports AHD, TVI, CVI cameras
- •IP cameras support (hybrid mode)
- •Intelligent image analysis
- •PIR cameras support

DIMENSIONS



VIDEO

VIDEO	
Video Input	4 x BNC
Operating mode	AHD 5Mpx, TVI 5Mpx, CVI 4Mpx, analog 960H
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI (4K UltraHD), 1 x VGA (FullHD) • spot: 1 x BNC
IP Streams	DVR mode: 4 x BNC + 0 x IP • hybrid mode: 4 x BNC + 2 x IP • IP mode: 0 x BNC + 6 x IP
Supported IP resolution	max. 2592 x 1944
AUDIO	
Audio Input/Output	4 x RCA (Line-in)/1 x HDMI, 1 x RCA
RECORDING	
Compression	H.264, H.265

Recording Speed	120 fps (960 x 576 - 960H) • 120 fps (1280 x 720 - HD) • 60 fps (1920 x 1080 - FullHD) • 64 fps (1280 x 1440 - 4Mpx Lite) • 48 fps (1280 x 1944 - 5Mpx Lite)
IP recording speed	hybrid mode: 60fps • IP mode: 180fps

IP stream size
hybrid mode: 8 Mb/s in total from all IP cameras • IP mode: 24 Mb/s in total from all IP cameras

Recording Mode
continuous, triggered by: REC/PANIC button, alarm input, motion detection, PIR alarm, image analysis

Schedule
individual settings for: each camera, each day of the week,

configuration with an accuracy of: 30 min, possibility of combining individual recording modes

Prealarm/postalarm up to 3 s/up to 5 min

PLAYBACK

Playback speed	120 fps
IP playback speed	120 fps
Recorded Data Search	by date/time, events, image analysis events, motion in a defined area, tags

BACKUP

2.10.101		
Backup Methods	USB port (HDD or Flash memory), network	
Backup File Format	JPG, BMP, PNG, MP4, AVI	
STORAGE		
Internal storage	available mount: 1 x HDD 3.5" SATA	

Total Internal Capacity

ALARM		
Alarm Input/Output	4/1 relay type	

10 TB









Multistandard AHD Recorder NHDR-4104-H1

IP Camera Alarm Input/Output	supports IP camera's alarm input/output
Motion Detection	30 x 44 grid, individual settings of sensitivity, PIR cameras support
System Reaction to Alarm Events	buzzer, e-mail, alarm output activation, screen message, recording activation, PTZ, Full Screen, FTP picture upload, FTP video upload, picture to Cloud, video to Cloud
INTELLIGENT IMAGE ANALYSI	s
Number of channels	4 x BNC, 6 x IP (4000 Serie)
Supported functions for analog cameras	Exception, Line cross, Zone entrance, Pedestrian detestion, Sound detection
Supported functions for IP cameras	Exception, Line cross, Zone entrance, Abandoned object, Object disappearance, Face detection, Pedestrian detection, Cross counting, Sound detection
NETWORK	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, HTTPS, FTP, DHCP, DNS, DDNS, NTP, SNTP, RTSP, UPnP, SNMP, SMTP, P2P
PC/MAC Software	NMS, Internet Explorer, NHDR-5000 Viewer/NHDR-5000 Viewer
Mobile applications	RxCamView (iPhone, Android)
Max. Number of Connections with DVR	20 (live monitoring: 20, playback: 1, configuration: 20)
Bandwidth	48 Mb/s in total to all client workstations
PTZ	
PTZ Ports	1 x RS-485
PTZ Protocols	Pelco-D, Pelco-P
PTZ Functions	pan/tilt/zoom, preset commands, patterns
COAX	
COAX Functions	menu, zoom, focus, PTZ
AUXILIARY INTERFACES	
USB Ports	2 x USB 2.0
ODED ATING GVCTEM	
Operating System	Linux
Operating System OSD	languages: Polish, English, Russian, others
Control	PC mouse and IR remote controller (in-set included), network, NV-
Control	KBD50 keyboard
System Diagnostic	automatic control of: HDDs, camera connection loss
Security	password protection, IP filtering
INSTALLATION PARAMETERS	
Dimensions (mm)	300 (W) x 53 (H) x 227 (D)
	1.1 kg (without HDD)
Weight	1.1 kg (Without HDD)
Weight Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)









Multistandard AHD Recorder NHDR-4104-H1

The recorder is dedicated to work with AHD cameras, Novus 4000 series IP cameras and achieves the best functionality with them. In case of work with IP cameras intelligent image analysis, dualstream mode, PTZ control, motion detection and alarm inputs / outputs functions depend on the functionality of the IP camera and the capabilities of the communication protocol. Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES tab.

Display and playback speeds are achieved using dual stream.







Multistandard AHD Recorder

NHDR-4108-H1





KEY FEATURES























- •Video channels: 8, audio channels: 8
- •Recording speed: up to 240 fps (AHD), up to 360 fps
- •Internal HDDs mount: up to 1
- •Monitor outputs: 3 (2 x main, 1 x spot)
- •Supports HD analog cameras (720p, 1080p, 4MPX,
- •Supports AHD, TVI, CVI cameras
- •IP cameras support (hybrid mode)
- •Intelligent image analysis
- •PIR cameras support

DIMENSIONS



VIDEO	
Video Input	8 x BNC
Operating mode	AHD 5Mpx, TVI 5Mpx, CVI 4Mpx, analog 960H
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI (4K UltraHD), 1 x VGA (FullHD) • spot: 1 x BNC
IP Streams	DVR mode: $8 \times BNC + 0 \times IP \cdot hybrid mode: 8 \times BNC + 4 \times IP \cdot IP mode: 0 \times BNC + 12 \times IP$
Supported IP resolution	max. 2592 x 1944
AUDIO	
Audio Input/Output	8 x RCA (Line-in)/1 x HDMI, 1 x RCA
RECORDING	
Compression	H.264, H.265
Recording Speed	240 fps (960 x 576 - 960H) • 240 fps (1280 x 720 - HD) • 120 fps (1920 x 1080 - FullHD) • 144 fps (1280 x 1440 - 4Mpx Lite) • 120 fps (1280 x 1944 - 5Mpx Lite)
IP recording speed	hybrid mode: 120fps • IP mode: 360fps
IP stream size	hybrid mode: 16 Mb/s in total from all IP cameras • IP mode: 48 Mb/s in total from all IP cameras

PLAYBACK

Prealarm/postalarm

Recording Mode

Schedule

Playback speed	240 fps
IP playback speed	240 fps
Recorded Data Search	by date/time, events, image analysis events, motion in a defined area, tags

individual recording modes

up to 3 s/up to 5 min

detection, PIR alarm, image analysis

BACKUP

USB port (HDD or Flash memory), network
JPG, BMP, PNG, MP4, AVI
available mount: 1 x HDD 3.5" SATA
10 TB

ALARM

Alarm Input/Output	8/1 relay type	





continuous, triggered by: REC/PANIC button, alarm input, motion

individual settings for: each camera, each day of the week, configuration with an accuracy of: 30 min, possibility of combining





Multistandard AHD Recorder NHDR-4108-H1

IP Camera Alarm Input/Output	supports IP camera's alarm input/output
Motion Detection	30 x 44 grid, individual settings of sensitivity, PIR cameras support
System Reaction to Alarm Events	buzzer, e-mail, alarm output activation, screen message, recording activation, PTZ, Full Screen, FTP picture upload, FTP video upload, picture to Cloud, video to Cloud
INTELLIGENT IMAGE ANALYSI	s
Number of channels	8 x BNC, 12 x IP (4000 Serie)
Supported functions for analog cameras	Exception, Line cross, Zone entrance, Pedestrian detestion, Sound detection
Supported functions for IP cameras	Exception, Line cross, Zone entrance, Abandoned object, Object disappearance, Face detection, Pedestrian detection, Cross counting, Sound detection
NETWORK	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, HTTPS, FTP, DHCP, DNS, DDNS, NTP, SNTP, RTSP, UPnP, SNMP, SMTP, P2P
PC/MAC Software	NMS, Internet Explorer, NHDR-5000 Viewer/NHDR-5000 Viewer
Mobile applications	RxCamView (iPhone, Android)
Max. Number of Connections with DVR	20 (live monitoring: 20, playback: 1, configuration: 20)
Bandwidth	64 Mb/s in total to all client workstations
PTZ	
PTZ Ports	1 x RS-485
PTZ Protocols	Pelco-D, Pelco-P
PTZ Functions	pan/tilt/zoom, preset commands, patterns
COAX	
COAX Functions	menu, zoom, focus, PTZ
AUXILIARY INTERFACES	
USB Ports	2 x USB 2.0
OPERATING SYSTEM	
Operating System	Linux
OSD	languages: Polish, English, Russian, others
Control	PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard
System Diagnostic	automatic control of: HDDs, camera connection loss
Security	password protection, IP filtering
INSTALLATION PARAMETERS	
Dimensions (mm)	300 (W) x 53 (H) x 227 (D)
Weight	1.1 kg (without HDD)
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)
Power Consumption	20 W (with 1 HDD)
Operating Temperature	-10°C ~ 55°C









Multistandard AHD Recorder NHDR-4108-H1

The recorder is dedicated to work with AHD cameras, Novus 4000 series IP cameras and achieves the best functionality with them. In case of work with IP cameras intelligent image analysis, dualstream mode, PTZ control, motion detection and alarm inputs / outputs functions depend on the functionality of the IP camera and the capabilities of the communication protocol. Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES tab.

Display and playback speeds are achieved using dual stream.







Multistandard AHD Recorder

NHDR-4116-H2





KEY FEATURES

















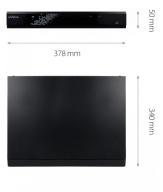






- •Video channels: 16, audio channels: 16
- •Recording speed: up to 480 fps (AHD), up to 600 fps
- •Internal HDDs mount: up to 2
- •Monitor outputs (main): 3
- •Supports HD analog cameras (720p, 1080p, 4MPX,
- •Supports AHD, TVI, CVI cameras
- •IP cameras support (hybrid mode)
- •Intelligent image analysis
- •PIR cameras support

DIMENSIONS





\ /I	-

VIDEO	
Video Input	16 x BNC
Operating mode	AHD 5Mpx, TVI 5Mpx, CVI 4Mpx, analog 960H
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI (4K UltraHD), 1 x VGA (FullHD) • spot: 1 x BNC
IP Streams	DVR mode: 16 x BNC + 0 x IP • hybrid mode: 16 x BNC + 4 x IP • IP mode: 0 x BNC + 20 x IP
Supported IP resolution	max. 2592 x 1944
AUDIO	
Audio Input/Output	16 x RCA (Line-in)/1 x HDMI, 1 x RCA
RECORDING	
Compression	H.264, H.265
Recording Speed	480 fps (960 x 576 - 960H) • 480 fps (1280 x 720 - HD) • 240 fps (1920 x 1080 - FullHD) • 256 fps (1280 x 1440 - 4Mpx Lite) • 192 fps (1280 x 1944 - 5Mpx Lite)
IP recording speed	hybrid mode: 120fps • IP mode: 600fps
IP stream size	hybrid mode: 16 Mb/s in total from all IP cameras • IP mode: 80 Mb/s in total from all IP cameras
Recording Mode	continuous, triggered by: REC/PANIC button, alarm input, motion detection, PIR alarm, image analysis
Schedule	individual settings for: each camera, each day of the week, configuration with an accuracy of: 30 min, possibility of combining individual recording modes
Prealarm/postalarm	up to 3 s/up to 5 min
PLAYBACK	
Playback speed	240 fps
IP playback speed	240 fps
Recorded Data Search	by date/time, events, image analysis events, motion in a defined area, tags
BACKUP	
Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	JPG, BMP, PNG, MP4, AVI
STORAGE	
Internal storage	available mount: 2 x HDD 3.5" SATA
Total Internal Capacity	16 TB

Network HDD (NFS or SMB/CIFS)

64 TB







External storage **Total External Capacity**



Multistandard AHD Recorder NHDR-4116-H2

IP Camera Alarm Input/Output supports IP camera's alarm input/output Motion Detection 30 x 44 grid, individual settings of sensitivity, PIR cameras support System Reaction to Alarm Events buzzer, e-mail, alarm output activation, screen message, recording activation, PTZ, Full Screen, FTP picture upload, FTP video upload, picture to Cloud, video to Cloud INTELLIGENT IMAGE ANALYSIS Supported functions Exception, Line cross, Zone entrance, Abandoned object, Object disappearance, Face detection, Pedestrian detestion, Cross countin Sound detection Number of channels 0 x BNC, 24 x IP (2000 and 4000 Serie) NETWORK Network Interface 1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s Network Protocols Support HTTP, TCP/IP, IPv4/v6, HTTPS, FTP, DHCP, DNS, DDNS, NTP, SNTP, RTSP, UPnP, SNMP, SMTP, P2P, HTML5	Alarm Input/Output	16/1 relay type
Motion Detection 30 x 44 grid, individual settings of sensitivity, PIR cameras support by the process of the pr	· · ·	
buzzer, e-mail, alarm output activation, screen message, recording activation, PTZ, Full Screen, FTP picture upload, FTP video upload, picture to Cloud, video to Cloud INTELLIGENT IMAGE ANALYSIS Supported functions Exception, Line cross, Zone entrance, Abandoned object, Object disappearance, Face detection, Pedestrian detestion, Cross countin Sound detection Number of channels 0 x BNC, 24 x IP (2000 and 4000 Serie) NETWORK Network Interface 1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s Network Protocols Support HTTP, TCP/IP, IPV4/v6, HTTPS, FTP, DHCP, DNS, DDNS, NTP, SNTP, RTSP, UPPP, SNMP, SMTP, P2P, HTML5 PC/MAC Software Mobile applications RxCamView (iPhone, Android) Number of Simultaneous Connectionsup to 32 users, each user up to 5 devices Bandwidth 96 Mb/s in total to all client workstations PTZ PTZ Ports 1 x RS-485 PTZ Protocols Pelco-D, Pelco-P PTZ Functions pan/tilt/zoom, preset commands, patterns COAX COAX Functions menu, zoom, focus, PTZ AUXILIARY INTERFACES USB Ports 1 x USB 3.0, 1 x USB 2.0 OPERATING SYSTEM Operating System Linux OSD languages: Polish, English, Russian, others Control PC mouse and IR remote controller (in-set included), network, NV-KBDS (beyboard System Diagnostic automatic control of: HDDs, camera connection loss Security password protection, IP filtering INSTALLATION PARAMETERS Dimensions (mm) 378 (W) x 50 (H) x 340 (D) Weight 2.5 kg (without HDDs) Power Consumption 30 W (with 2 HDDs)		<u> </u>
activation, PTZ, Full Screen, FTP picture upload, FTP video upload, picture to Cloud, video to Cloud INTELLIGENT IMAGE ANALYSIS Supported functions Exception, Line cross, Zone entrance, Abandoned object, Object disappearance, Face detection, Pedestrian detestion, Cross countin Sound detection Number of channels 0 x BNC, 24 x IP (2000 and 4000 Serie) NETWORK Network Interface 1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s Network Protocols Support HTTP, TCP/IP, IPv4/v6, HTTPS, FTP, DHCP, DNS, DDNS, NTP, SNTP, RTSP, UPAP, SMMP, SMTP, PZP, HTML5 PC/MAC Software NMS, Internet Explorer, NHDR-5000 Viewer, Firefox, Chrome, Opera Edge/Safari, NHDR-5000 Viewer Firefox, Chrome, Opera Edge/Safari, NHDR-5000	. House December	
Supported functions Exception, Line cross, Zone entrance, Abandoned object, Object disappearance, Face detection, Pedestrian detestion, Cross countin Sound detection Number of channels 0 x BNC, 24 x IP (2000 and 4000 Serie) NETWORK Network Interface 1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s Network Protocols Support HTTP, TCP/IP, IPv4/v6, HTTPS, FTP, DHCP, DNS, DDNS, NTP, SNTP, RTSP, UPnP, SNMP, SMTP, P2P, HTML5 PC/MAC Software Mobile applications RxCamView (iPhone, Android) Number of Simultaneous Connectionsup to 32 users, each user up to 5 devices Bandwidth 96 Mb/s in total to all client workstations PTZ PTZ PTZ Ports 1 x RS-485 PTZ Protocols Pelco-D, Pelco-P PTZ Functions pan/tilt/zoom, preset commands, patterns COAX COAX Functions menu, zoom, focus, PTZ AUXILIARY INTERFACES USB Ports 1 x USB 3.0, 1 x USB 2.0 OPERATING SYSTEM Operating System Linux OSD languages: Polish, English, Russian, others Control PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard System Diagnostic automatic control of: HDDs, camera connection loss Security password protection, IP filtering INSTALLATION PARAMETERS Dimensions (mm) 378 (W) x 50 (H) x 340 (D) Weight 2.5 kg (without HDDs) Power Consumption 30 W (with 2 HDDs)	System Reaction to Alarm Events	activation, PTZ, Full Screen, FTP picture upload, FTP video upload,
disappearance, Face detection, Pedestrian detestion, Cross countin Sound detection Number of channels 0 x BNC, 24 x IP (2000 and 4000 Serie) NETWORK Network Interface 1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s Network Protocols Support HTTP, TCP/IP, IPv4/v6, HTTPS, FTP, DHCP, DNS, DDNS, NTP, SNTP, RTSP, UPnP, SNMP, SNTP, PZP, HTML5 PC/MAC Software NMS, Internet Explorer, NHDR-5000 Viewer, Firefox, Chrome, Opera Edge/Safari, NHDR-5000 Viewer Mobile applications RxCamView (iPhone, Android) Number of Simultaneous Connectionsup to 32 users, each user up to 5 devices Bandwidth 96 Mb/s in total to all client workstations PTZ PTZ Ports 1 x RS-485 PTZ Portocols Pelco-D, Pelco-P PTZ Functions menu, zoom, focus, PTZ AUXILIARY INTERFACES USB Ports 1 x USB 3.0, 1 x USB 2.0 OPERATING SYSTEM Operating System Linux OSD languages: Polish, English, Russian, others Control PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard System Diagnostic automatic control of: HDDs, camera connection loss Security password protection, IP filtering INSTALLATION PARAMETERS Dimensions (mm) 378 (W) x 50 (H) x 340 (D) Weight 2.5 kg (without HDDs) Power Supply 12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included) POwer Consumption 30 W (with 2 HDDs)	INTELLIGENT IMAGE ANALYS	IS
NETWORK Network Interface 1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s Network Protocols Support HTTP, TCP/IP, IPv4/v6, HTTPS, FTP, DHCP, DNS, DDNS, NTP, SNTP, RTSP, UPNP, SMMP, SMTP, P2P, HTML5 PC/MAC Software NMS, Internet Explorer, NHDR-5000 Viewer, Firefox, Chrome, Opera Edge/Safari, NHDR-5000 Viewer Mobile applications RxCamView (iPhone, Android) Number of Simultaneous Connectionsup to 32 users, each user up to 5 devices Bandwidth 96 Mb/s in total to all client workstations PTZ PTZ Ports 1 x RS-485 PTZ Protocols Pelco-D, Pelco-P PTZ Functions pan/tilt/zoom, preset commands, patterns COAX COAX Functions menu, zoom, focus, PTZ AUXILIARY INTERFACES USB Ports 1 x USB 3.0, 1 x USB 2.0 OPERATING SYSTEM Operating System Linux OSD languages: Polish, English, Russian, others Control PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard System Diagnostic automatic control of: HDDs, camera connection loss Security password protection, IP filtering INSTALLATION PARAMETERS Dimensions (mm) 378 (W) x 50 (H) x 340 (D) Weight 2.5 kg (without HDDs) Power Consumption 30 W (with 2 HDDs)	Supported functions	disappearance, Face detection, Pedestrian detestion, Cross counting
Network Interface 1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s Network Protocols Support HTTP, TCP/IP, IPv4/v6, HTTPS, FTP, DHCP, DNS, DDNS, NTP, SNTP, RTSP, UPnP, SNMP, SMTP, SMP, SMPP, P2P, HTML5 PC/MAC Software NMS, Internet Explorer, NHDR-5000 Viewer, Firefox, Chrome, Opera Edge/Safari, NHDR-5000 Viewer Mobile applications RxCamView (iPhone, Android) Number of Simultaneous Connectionsup to 32 users, each user up to 5 devices Bandwidth 96 Mb/s in total to all client workstations PTZ PTZ Ports 1 x RS-485 PTZ Protocols Pelco-D, Pelco-P PTZ Functions pan/tilt/zoom, preset commands, patterns COAX COAX Functions menu, zoom, focus, PTZ AUXILIARY INTERFACES USB Ports 1 x USB 3.0, 1 x USB 2.0 OPERATING SYSTEM Operating System Linux OSD languages: Polish, English, Russian, others Control PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard System Diagnostic automatic control of: HDDs, camera connection loss Security password protection, IP filtering INSTALLATION PARAMETERS Dimensions (mm) 378 (W) x 50 (H) x 340 (D) Weight 2.5 kg (without HDDs) Power Consumption 30 W (with 2 HDDs)	Number of channels	0 x BNC, 24 x IP (2000 and 4000 Serie)
Network Protocols Support HTTP, TCP/IP, IPv4/v6, HTTPS, FTP, DHCP, DNS, DDNS, NTP, SNTP, RTSP, UPnP, SNMP, SMTP, P2P, HTML5 PC/MAC Software NMS, Internet Explorer, NHDR-5000 Viewer, Firefox, Chrome, Opera Edge/Safari, NHDR-5000 Viewer Mobile applications RxCamView (iPhone, Android) Number of Simultaneous Connectionsup to 32 users, each user up to 5 devices Bandwidth 96 Mb/s in total to all client workstations PTZ PTZ Ports 1 x RS-485 PTZ Protocols Pelco-D, Pelco-P PTZ Functions COAX COAX Functions menu, zoom, focus, PTZ AUXILIARY INTERFACES USB Ports 1 x USB 3.0, 1 x USB 2.0 OPERATING SYSTEM Operating System Linux OSD languages: Polish, English, Russian, others Control PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard System Diagnostic automatic control of: HDDs, camera connection loss Security password protection, IP filtering INSTALLATION PARAMETERS Dimensions (mm) 378 (W) x 50 (H) x 340 (D) Weight 2.5 kg (without HDDs) Power Supply 12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included) Power Consumption 30 W (with 2 HDDs)	NETWORK	
RTSP, UPnP, SMMP, SMTP, P2P, HTML5 PC/MAC Software NMS, Internet Explorer, NHDR-5000 Viewer, Firefox, Chrome, Opera Edge/Safari, NHDR-5000 Viewer Mobile applications RxCamView (iPhone, Android) Number of Simultaneous Connections up to 32 users, each user up to 5 devices Bandwidth 96 Mb/s in total to all client workstations PTZ PTZ PTZ PTZ Ports 1 x RS-485 PTZ Protocols Pelco-D, Pelco-P PTZ Functions pan/tilt/zoom, preset commands, patterns COAX COAX Functions menu, zoom, focus, PTZ AUXILIARY INTERFACES USB Ports 1 x USB 3.0, 1 x USB 2.0 OPERATING SYSTEM Operating System Linux OSD languages: Polish, English, Russian, others Control PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard System Diagnostic automatic control of: HDDs, camera connection loss Security password protection, IP filtering INSTALLATION PARAMETERS Dimensions (mm) 378 (W) x 50 (H) x 340 (D) Weight 2.5 kg (without HDDs) Power Supply 12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included) Power Consumption 30 W (with 2 HDDs)	Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s
Edge/Safari, NHDR-5000 Viewer Mobile applications RxCamView (iPhone, Android) Number of Simultaneous Connectionsup to 32 users, each user up to 5 devices Bandwidth 96 Mb/s in total to all client workstations PTZ PTZ Ports 1 x RS-485 PTZ Protocols Pelco-D, Pelco-P PTZ Functions pan/tilt/zoom, preset commands, patterns COAX COAX COAX menutions menu, zoom, focus, PTZ AUXILIARY INTERFACES USB Ports 1 x USB 3.0, 1 x USB 2.0 OPERATING SYSTEM Operating System Linux OSD languages: Polish, English, Russian, others Control PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard System Diagnostic automatic control of: HDDs, camera connection loss Security password protection, IP filtering INSTALLATION PARAMETERS Dimensions (mm) 378 (W) x 50 (H) x 340 (D) Weight 2.5 kg (without HDDs) Power Supply 12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included) Power Consumption 30 W (with 2 HDDs)	Network Protocols Support	
Number of Simultaneous Connectionsup to 32 users, each user up to 5 devices Bandwidth 96 Mb/s in total to all client workstations PTZ PTZ PTZ PTZ Ports 1 x RS-485 PTZ Protocols Pelco-D, Pelco-P PTZ Functions pan/tilt/zoom, preset commands, patterns COAX COAX COAX Functions menu, zoom, focus, PTZ AUXILIARY INTERFACES USB Ports 1 x USB 3.0, 1 x USB 2.0 OPERATING SYSTEM Operating System Linux OSD languages: Polish, English, Russian, others Control PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard System Diagnostic automatic control of: HDDs, camera connection loss Security password protection, IP filtering INSTALLATION PARAMETERS Dimensions (mm) 378 (W) x 50 (H) x 340 (D) Weight 2.5 kg (without HDDs) Power Supply 12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included) Power Consumption 30 W (with 2 HDDs)	PC/MAC Software	NMS, Internet Explorer, NHDR-5000 Viewer, Firefox, Chrome, Opera, Edge/Safari, NHDR-5000 Viewer
Bandwidth 96 Mb/s in total to all client workstations PTZ PTZ PTZ Ports 1 x RS-485 PTZ Protocols Pelco-D, Pelco-P PTZ Functions pan/tilt/zoom, preset commands, patterns COAX COAX COAX Functions menu, zoom, focus, PTZ AUXILIARY INTERFACES USB Ports 1 x USB 3.0, 1 x USB 2.0 OPERATING SYSTEM Operating System Linux OSD languages: Polish, English, Russian, others Control PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard System Diagnostic automatic control of: HDDs, camera connection loss Security password protection, IP filtering INSTALLATION PARAMETERS Dimensions (mm) 378 (W) x 50 (H) x 340 (D) Weight 2.5 kg (without HDDs) Power Supply 12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included) Power Consumption 30 W (with 2 HDDs)	Mobile applications	RxCamView (iPhone, Android)
PTZ PTZ Ports 1 x RS-485 PTZ Protocols Pelco-D, Pelco-P PTZ Functions pan/tilt/zoom, preset commands, patterns COAX COAX COAX Functions menu, zoom, focus, PTZ AUXILIARY INTERFACES USB Ports 1 x USB 3.0, 1 x USB 2.0 OPERATING SYSTEM Operating System Linux OSD languages: Polish, English, Russian, others Control PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard System Diagnostic automatic control of: HDDs, camera connection loss Security password protection, IP filtering INSTALLATION PARAMETERS Dimensions (mm) 378 (W) x 50 (H) x 340 (D) Weight 2.5 kg (without HDDs) Power Supply 12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included) Power Consumption 30 W (with 2 HDDs)	Number of Simultaneous Connection	onsup to 32 users, each user up to 5 devices
PTZ Ports 1 x RS-485 PTZ Protocols Pelco-D, Pelco-P PTZ Functions pan/tilt/zoom, preset commands, patterns COAX COAX Functions menu, zoom, focus, PTZ AUXILIARY INTERFACES USB Ports 1 x USB 3.0, 1 x USB 2.0 OPERATING SYSTEM Operating System Linux OSD languages: Polish, English, Russian, others Control PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard System Diagnostic automatic control of: HDDs, camera connection loss Security password protection, IP filtering INSTALLATION PARAMETERS Dimensions (mm) 378 (W) x 50 (H) x 340 (D) Weight 2.5 kg (without HDDs) Power Supply 12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included) Power Consumption 30 W (with 2 HDDs)	Bandwidth	96 Mb/s in total to all client workstations
PTZ Protocols PEZ Functions pan/tilt/zoom, preset commands, patterns COAX COAX Functions menu, zoom, focus, PTZ AUXILIARY INTERFACES USB Ports 1 x USB 3.0, 1 x USB 2.0 OPERATING SYSTEM Operating System Linux OSD languages: Polish, English, Russian, others Control PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard System Diagnostic automatic control of: HDDs, camera connection loss Security password protection, IP filtering INSTALLATION PARAMETERS Dimensions (mm) 378 (W) x 50 (H) x 340 (D) Weight 2.5 kg (without HDDs) Power Supply 12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included) Power Consumption 30 W (with 2 HDDs)	PTZ	
PTZ Functions pan/tilt/zoom, preset commands, patterns COAX COAX Functions menu, zoom, focus, PTZ AUXILIARY INTERFACES USB Ports 1 x USB 3.0, 1 x USB 2.0 OPERATING SYSTEM Operating System Linux OSD languages: Polish, English, Russian, others Control PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard System Diagnostic automatic control of: HDDs, camera connection loss Security password protection, IP filtering INSTALLATION PARAMETERS Dimensions (mm) 378 (W) x 50 (H) x 340 (D) Weight 2.5 kg (without HDDs) Power Supply 12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included) Power Consumption 30 W (with 2 HDDs)	PTZ Ports	1 x RS-485
COAX COAX Functions menu, zoom, focus, PTZ AUXILIARY INTERFACES USB Ports 1 x USB 3.0, 1 x USB 2.0 OPERATING SYSTEM Operating System Linux OSD languages: Polish, English, Russian, others Control PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard System Diagnostic automatic control of: HDDs, camera connection loss Security password protection, IP filtering INSTALLATION PARAMETERS Dimensions (mm) 378 (W) x 50 (H) x 340 (D) Weight 2.5 kg (without HDDs) Power Supply 12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included) Power Consumption 30 W (with 2 HDDs)	PTZ Protocols	Pelco-D, Pelco-P
AUXILIARY INTERFACES USB Ports 1 x USB 3.0, 1 x USB 2.0 OPERATING SYSTEM Operating System Linux OSD languages: Polish, English, Russian, others Control PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard System Diagnostic automatic control of: HDDs, camera connection loss Security password protection, IP filtering INSTALLATION PARAMETERS Dimensions (mm) 378 (W) x 50 (H) x 340 (D) Weight 2.5 kg (without HDDs) Power Supply 12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included) Power Consumption 30 W (with 2 HDDs)	PTZ Functions	pan/tilt/zoom, preset commands, patterns
AUXILIARY INTERFACES USB Ports 1 x USB 3.0, 1 x USB 2.0 OPERATING SYSTEM Operating System Linux OSD languages: Polish, English, Russian, others Control PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard System Diagnostic automatic control of: HDDs, camera connection loss Security password protection, IP filtering INSTALLATION PARAMETERS Dimensions (mm) 378 (W) x 50 (H) x 340 (D) Weight 2.5 kg (without HDDs) Power Supply 12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included) Power Consumption 30 W (with 2 HDDs)	COAX	
OPERATING SYSTEM Operating System Linux OSD languages: Polish, English, Russian, others Control PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard System Diagnostic automatic control of: HDDs, camera connection loss Security password protection, IP filtering INSTALLATION PARAMETERS Dimensions (mm) 378 (W) x 50 (H) x 340 (D) Weight 2.5 kg (without HDDs) Power Supply 12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included) Power Consumption 30 W (with 2 HDDs)	COAX Functions	menu, zoom, focus, PTZ
OPERATING SYSTEM Operating System Linux OSD languages: Polish, English, Russian, others Control PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard System Diagnostic automatic control of: HDDs, camera connection loss Security password protection, IP filtering INSTALLATION PARAMETERS Dimensions (mm) 378 (W) x 50 (H) x 340 (D) Weight 2.5 kg (without HDDs) Power Supply 12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included) Power Consumption 30 W (with 2 HDDs)	ALIXII IARY INTERFACES	
Operating System Linux OSD Ianguages: Polish, English, Russian, others Control PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard System Diagnostic automatic control of: HDDs, camera connection loss Security password protection, IP filtering INSTALLATION PARAMETERS Dimensions (mm) 378 (W) x 50 (H) x 340 (D) Weight 2.5 kg (without HDDs) Power Supply 12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included) Power Consumption 30 W (with 2 HDDs)		1 x USB 3.0, 1 x USB 2.0
Operating System Linux OSD Ianguages: Polish, English, Russian, others Control PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard System Diagnostic automatic control of: HDDs, camera connection loss Security password protection, IP filtering INSTALLATION PARAMETERS Dimensions (mm) 378 (W) x 50 (H) x 340 (D) Weight 2.5 kg (without HDDs) Power Supply 12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included) Power Consumption 30 W (with 2 HDDs)	ODEDATING SYSTEM	
OSD languages: Polish, English, Russian, others Control PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard System Diagnostic automatic control of: HDDs, camera connection loss Security password protection, IP filtering INSTALLATION PARAMETERS Dimensions (mm) 378 (W) x 50 (H) x 340 (D) Weight 2.5 kg (without HDDs) Power Supply 12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included) Power Consumption 30 W (with 2 HDDs)		Linux
Control PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard System Diagnostic automatic control of: HDDs, camera connection loss Security password protection, IP filtering INSTALLATION PARAMETERS Dimensions (mm) 378 (W) x 50 (H) x 340 (D) Weight 2.5 kg (without HDDs) Power Supply 12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included) Power Consumption 30 W (with 2 HDDs)		
System Diagnostic automatic control of: HDDs, camera connection loss Security password protection, IP filtering INSTALLATION PARAMETERS Dimensions (mm) 378 (W) x 50 (H) x 340 (D) Weight 2.5 kg (without HDDs) Power Supply 12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included) Power Consumption 30 W (with 2 HDDs)		PC mouse and IR remote controller (in-set included), network, NV-
Dimensions (mm) 378 (W) x 50 (H) x 340 (D) Weight 2.5 kg (without HDDs) Power Supply 12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included) Power Consumption 30 W (with 2 HDDs)	System Diagnostic	automatic control of: HDDs, camera connection loss
Dimensions (mm) 378 (W) x 50 (H) x 340 (D) Weight 2.5 kg (without HDDs) Power Supply 12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included) Power Consumption 30 W (with 2 HDDs)	Security	password protection, IP filtering
Dimensions (mm) 378 (W) x 50 (H) x 340 (D) Weight 2.5 kg (without HDDs) Power Supply 12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included) Power Consumption 30 W (with 2 HDDs)	INSTALLATION PARAMETERS	
Weight 2.5 kg (without HDDs) Power Supply 12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included) Power Consumption 30 W (with 2 HDDs)		
Power Supply 12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included) Power Consumption 30 W (with 2 HDDs)		
Power Consumption 30 W (with 2 HDDs)		
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Multistandard AHD Recorder NHDR-4116-H2

The recorder is dedicated to work with AHD cameras, Novus 4000 series IP cameras and achieves the best functionality with them. In case of work with IP cameras intelligent image analysis, dualstream mode, PTZ control, motion detection and alarm inputs / outputs functions depend on the functionality of the IP camera and the capabilities of the communication protocol. Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES tab.

Display and playback speeds are achieved using dual stream.







Multistandard AHD Recorder

NHDR-4116AHD





KEY FEATURES





















- •Video channels: 16, audio channels: 16
- •Recording speed: up to 480 fps (AHD), up to 720 fps (IP)
- •Internal HDDs mount: up to 2
- Monitor outputs (main): 2
- •Supports HD analog cameras (720p, 1080p, 4MPX, 5MPX)
- •Supports AHD, TVI, CVI cameras
- •IP cameras support (hybrid mode)
- •Intelligent image analysis
- •PIR cameras support
- •Supports POS devices

DIMENSIONS



VIDEO

Video Input	16 x BNC
Operating mode	AHD 5Mpx, TVI 5Mpx, CVI 4Mpx, analog 960H
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI (4K UltraHD), 1 x VGA (FullHD)
IP Streams	DVR mode: $16 \times BNC + 0 \times IP \cdot hybrid mode: 16 \times BNC + 8 \times IP \cdot IP mode: 0 \times BNC + 24 \times IP$
Supported IP resolution	max. 2592 x 1944

AUDIO

Audio Input/Output 16 x RCA (Line-in)/1 x HDMI, 1 x RCA

RECORDING

Compression	H.264, H.265
Recording Speed	480 fps (1280 x 720 - HD) • 240 fps (1920 x 1080 - FullHD) • 288 fps (1280 x 1440 - 4Mpx Lite) • 240 fps (1280 x 1944 - 5Mpx Lite) • 128 fps (2560 x 1440 - 4Mpx)
IP recording speed	hybrid mode: 240fps • IP mode: 720fps

· J -	,
IP stream size	hybrid mode: 32 Mb/s in total from all IP cameras • IP mode: 96 Mb/s in total from all IP cameras
Recording Mode	continuous, triggered by: REC/PANIC button, alarm input, motion

detection, PIR alarm

Schedule individual settings for: each camera, each day of the week, configuration with an accuracy of: 30 min, possibility of combining

individual recording modes

Prealarm/postalarm up to 3 s/up to 5 min

PLAYBACK

Playback speed	480 fps
IP playback speed	480 fps
Recorded Data Search	by date/time, events, image analysis events, motion in a defined area, tags

BACKUP

Backup Methods	USB port (HDD or Flash memory), network	
Backup File Format	JPG, BMP, PNG, MP4, AVI	
STORAGE		
Internal storage	available mount: 2 x HDD 3.5" SATA	
Total Internal Capacity	28 TB	

ALARM

Alarm Input/Output	16/1 relay type









Multistandard AHD Recorder NHDR-4116AHD

Mation Datastics	OC to AA and disable data and a section of Control 19 19 19 19 19 19 19 19 19 19 19 19 19
Motion Detection	36 x 44 grid, individual settings of sensitivity, PIR cameras support
System Reaction to Alarm Events	buzzer, e-mail, alarm output activation, screen message, recording activation, PTZ, Full Screen, FTP picture upload, FTP video upload, picture to Cloud, video to Cloud
INTELLIGENT IMAGE ANALYS	ıs
Supported functions	Exception, Line cross, Zone entrance, Abandoned object, Object disappearance, Face detection, Pedestrian detestion, Cross counting, Sound detection
Number of channels	0 x BNC, 24 x IP (2000 and 4000 Serie)
NETWORK	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, SMTP, P2P
PC/MAC Software	NMS, Internet Explorer, NHDR-5000 Viewer/NHDR-5000 Viewer
Mobile applications	RxCamView (iPhone, Android)
Max. Number of Connections with DVR	20 (live monitoring: 20, playback: 1, configuration: 20)
Bandwidth	96 Mb/s in total to all client workstations
PTZ	
PTZ Ports	1 x RS-485
PTZ Protocols	Pelco-D, Pelco-P
PTZ Functions	pan/tilt/zoom, preset commands, patterns
COAX	
COAX Functions	menu, zoom, focus, PTZ
POS	
Number of POS channels	4
POS Interface	Ethernet, RS485
POS Functions	display text on the video, keyword search, export text with the video
AUXILIARY INTERFACES	
USB Ports	1 x USB 3.0 1 x USB 2.0
Operating System	Linux
Operating System	Linux Languages: Polich English Bussian others
OSD	languages: Polish, English, Russian, others
Control	PC mouse and IR remote controller (in-set included), network, NV- KBD50 keyboard
System Diagnostic	automatic control of: HDDs, camera connection loss
Security	password protection, IP filtering
INSTALLATION PARAMETERS	
Dimensions (mm)	378 (W) x 50 (H) x 340 (D)
Weight	378 (W) x 50 (H) x 340 (D) 2.5 kg (without HDDs)
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Weight	2.5 kg (without HDDs)







Multistandard AHD Recorder

NHDR-4304-H1





KEY FEATURES























- •Video channels: 4, audio channels: 4
- •Recording speed: up to 120 fps (AHD), up to 180 fps
- •Internal HDDs mount: up to 1
- •Monitor outputs: 3 (2 x main, 1 x spot)
- •Supports HD analog cameras (720p, 1080p, 4MPX, 5MPX, 8MPX)
- •Supports AHD, TVI, CVI cameras
- •IP cameras support (hybrid mode)
- •Intelligent image analysis
- •PIR cameras support

DIMENSIONS



VIDEO	
Video Input	4 x BNC
Operating mode	AHD 8Mpx, TVI 8Mpx, CVI 8Mpx, analog 960H
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI (4K UltraHD), 1 x VGA (FullHD) • spot: 1 x BNC
IP Streams	DVR mode: 4 x BNC + 0 x IP • hybrid mode: 4 x BNC + 2 x IP • IP mode: 0 x BNC + 6 x IP
Supported IP resolution	max. 3840 x 2160
AUDIO	
Audio Input/Output	4 x RCA (Line-in)/1 x HDMI, 1 x RCA
RECORDING	
Compression	H.264, H.265
Recording Speed	120 fps (1280 x 720 - HD) • 120 fps (1920 x 1080 - FullHD) • 60 fps (2560 x 1440 - 4Mpx) • 48 fps (2560 x 1944 - 5Mpx) • 28 fps (3840 x 2160 - 8Mpx)
IP recording speed	hybrid mode: 60fps • IP mode: 180fps
IP stream size	hybrid mode: 12 Mb/s in total from all IP cameras • IP mode: 36 Mb/s in total from all IP cameras
Recording Mode	continuous, triggered by: REC/PANIC button, alarm input, motion detection, PIR alarm, image analysis
Schedule	individual settings for: each camera, each day of the week, configuration with an accuracy of: 30 min, possibility of combining individual recording modes
Prealarm/postalarm	up to 3 s/up to 5 min

PLAYBACK Playback speed

IP playback speed	120 fps
Recorded Data Search	by date/time, events, image analysis events, motion in a defined area, tags

120 fps

BACKUP

Backup Methods	USB port (HDD or Flash memory), network	
Backup File Format	JPG, BMP, PNG, MP4, AVI	
STORAGE		
Internal storage	available mount: 1 x HDD 3.5" SATA	
Total Internal Capacity	10 TB	

ALARM

Alarm Input/Output 4/1 rela	ay type









Multistandard AHD Recorder NHDR-4304-H1

IP Camera Alarm Input/Output	supports IP camera's alarm input/output				
Motion Detection	30 x 44 grid, individual settings of sensitivity, PIR cameras support				
System Reaction to Alarm Events	buzzer, e-mail, alarm output activation, screen message, recording activation, PTZ, Full Screen, FTP picture upload, FTP video upload, picture to Cloud, video to Cloud				
INTELLIGENT IMAGE ANALYSI	s				
Number of channels	4 x BNC, 6 x IP (4000 Serie)				
Supported functions for analog cameras	Exception, Line cross, Zone entrance, Pedestrian detestion, Sound detection				
Supported functions for IP cameras	Exception, Line cross, Zone entrance, Abandoned object, Object disappearance, Face detection, Pedestrian detection, Cross counting, Sound detection				
NETWORK					
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s				
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, HTTPS, FTP, DHCP, DNS, DDNS, NTP, SNTP, RTSP, UPnP, SNMP, SMTP, P2P				
PC/MAC Software	NMS, Internet Explorer, NHDR-5000 Viewer/NHDR-5000 Viewer				
Mobile applications	RxCamView (iPhone, Android)				
Max. Number of Connections with DVR	20 (live monitoring: 20, playback: 1, configuration: 20)				
Bandwidth	48 Mb/s in total to all client workstations				
PTZ					
PTZ Ports	1 x RS-485				
PTZ Protocols	Pelco-D, Pelco-P				
PTZ Functions	pan/tilt/zoom, preset commands, patterns				
COAX					
COAX Functions	menu, zoom, focus, PTZ				
AUXILIARY INTERFACES					
USB Ports	2 x USB 2.0				
ODED ATING GVCTEM					
Operating System	Linux				
Operating System OSD	languages: Polish, English, Russian, others				
Control	PC mouse and IR remote controller (in-set included), network, NV-				
Control	KBD50 keyboard				
System Diagnostic	automatic control of: HDDs, camera connection loss				
Security	password protection, IP filtering				
INSTALLATION PARAMETERS					
Dimensions (mm)	300 (W) x 53 (H) x 227 (D)				
	1.1 kg (without HDD)				
Weight	1.1 kg (Without HDD)				
Weight Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)				









Multistandard AHD Recorder NHDR-4304-H1

The recorder is dedicated to work with AHD cameras, Novus 4000 series IP cameras and achieves the best functionality with them. In case of work with IP cameras intelligent image analysis, dualstream mode, PTZ control, motion detection and alarm inputs / outputs functions depend on the functionality of the IP camera and the capabilities of the communication protocol. Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES tab.

Display and playback speeds are achieved using dual stream.







Multistandard AHD Recorder

NHDR-4308-H2





KEY FEATURES





















- •Video channels: 8, audio channels: 8
- •Recording speed: up to 240 fps (AHD), up to 360 fps (IP)
- •Internal HDDs mount: up to 2
- •Monitor outputs: 3 (2 x main, 1 x spot)
- •Supports HD analog cameras (720p, 1080p, 4MPX, 5MPX, 8MPX)
- •Supports AHD, TVI, CVI cameras
- •IP cameras support (hybrid mode)
- •Intelligent image analysis
- •PIR cameras support

DIMENSIONS



VIDEO

Video Input	8 x BNC
Operating mode	AHD 8Mpx, TVI 8Mpx, CVI 8Mpx, analog 960H
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI (4K UltraHD), 1 x VGA (FullHD) • spot: 1 x BNC
IP Streams	DVR mode: $8 \times BNC + 0 \times IP \cdot hybrid mode: 8 \times BNC + 4 \times IP \cdot IP mode: 0 \times BNC + 12 \times IP$
Supported IP resolution	max. 3840 x 2160
AUDIO	
Audio Input/Output	8 x RCA (Line-in)/1 x HDMI, 1 x RCA
RECORDING	
Compression	H.264, H.265
Recording Speed	240 fps (1280 x 720 - HD) • 240 fps (1920 x 1080 - FullHD) • 120 fps (2560 x 1440 - 4Mpx) • 96 fps (2560 x 1944 - 5Mpx) • 56 fps (3840 x 2160 - 8Mpx)
IP recording speed	hybrid mode: 120fps • IP mode: 360fps
IP stream size	hybrid mode: 24 Mb/s in total from all IP cameras • IP mode: 72 Mb/s in total from all IP cameras
Recording Mode	continuous, triggered by: REC/PANIC button, alarm input, motion detection, PIR alarm, image analysis
Schedule	individual settings for: each camera, each day of the week, configuration with an accuracy of: 30 min, possibility of combining individual recording modes
Prealarm/postalarm	up to 3 s/up to 5 min
PLAYBACK	
Playback speed	240 fps
IP playback speed	240 fps
Recorded Data Search	by date/time, events, image analysis events, motion in a defined area, tags
BACKUP	
Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	JPG, BMP, PNG, MP4, AVI
STORAGE	
Internal storage	available mount: 2 x HDD 3.5" SATA
Total Internal Capacity	16 TB
ALARM	
Alarm Input/Output	8/1 relay type
	-,5.7, -,









Multistandard AHD Recorder NHDR-4308-H2

IP Camera Alarm Input/Output	supports IP camera's alarm input/output				
Motion Detection	30 x 44 grid, individual settings of sensitivity, PIR cameras support				
System Reaction to Alarm Events	buzzer, e-mail, alarm output activation, screen message, recording activation, PTZ, Full Screen, FTP picture upload, FTP video upload, picture to Cloud, video to Cloud				
INTELLIGENT IMAGE ANALYSI	s				
Number of channels	8 x BNC, 12 x IP (4000 Serie)				
Supported functions for analog cameras	Exception, Line cross, Zone entrance, Sound detection				
Supported functions for IP cameras	Exception, Line cross, Zone entrance, Abandoned object, Object disappearance, Face detection, Pedestrian detection, Cross counting, Sound detection				
NETWORK					
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s				
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, HTTPS, FTP, DHCP, DNS, DDNS, NTP, SNTP, RTSP, UPnP, SNMP, SMTP, P2P				
PC/MAC Software	NMS, Internet Explorer, NHDR-5000 Viewer/NHDR-5000 Viewer				
Mobile applications	RxCamView (iPhone, Android)				
Max. Number of Connections with DVR	20 (live monitoring: 20, playback: 1, configuration: 20)				
Bandwidth	72 Mb/s in total to all client workstations				
PTZ					
PTZ Ports	1 x RS-485				
PTZ Protocols	Pelco-D, Pelco-P				
PTZ Functions	pan/tilt/zoom, preset commands, patterns				
COAX					
COAX Functions	menu, zoom, focus, PTZ				
AUXILIARY INTERFACES					
USB Ports	1 x USB 3.0 1 x USB 2.0				
OPERATING SYSTEM					
Operating System	Linux				
OSD	languages: Polish, English, Russian, others				
	languages. I onsil, English, Russian, others				
Control	PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard				
	KBD50 keyboard				
System Diagnostic Security	· · · · · · · · · · · · · · · · · · ·				
System Diagnostic Security	KBD50 keyboard automatic control of: HDDs, camera connection loss				
System Diagnostic	KBD50 keyboard automatic control of: HDDs, camera connection loss				
System Diagnostic Security INSTALLATION PARAMETERS Dimensions (mm)	automatic control of: HDDs, camera connection loss password protection, IP filtering 378 (W) x 50 (H) x 340 (D)				
System Diagnostic Security INSTALLATION PARAMETERS Dimensions (mm) Weight	automatic control of: HDDs, camera connection loss password protection, IP filtering 378 (W) x 50 (H) x 340 (D) 2.5 kg (without HDDs)				
System Diagnostic Security INSTALLATION PARAMETERS Dimensions (mm)	automatic control of: HDDs, camera connection loss password protection, IP filtering 378 (W) x 50 (H) x 340 (D)				









Multistandard AHD Recorder NHDR-4308-H2

The recorder is dedicated to work with AHD cameras, Novus 4000 series IP cameras and achieves the best functionality with them. In case of work with IP cameras intelligent image analysis, dualstream mode, PTZ control, motion detection and alarm inputs / outputs functions depend on the functionality of the IP camera and the capabilities of the communication protocol. Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES tab.

Display and playback speeds are achieved using dual stream.







Multistandard AHD Recorder

NHDR-6004-H1-II





KEY FEATURES



















- •Video channels: 4, audio channels: 1
- •Recording speed: up to 120 fps (AHD), up to 60 fps (IP)
- •Internal HDDs mount: up to 1
- •Monitor outputs: 3 (2 x main, 1 x spot)
- •Supports HD analog cameras (720p, 1080p, 4MPX, 5MPX)
- •Supports AHD, TVI, CVI cameras
- •IP cameras support (hybrid mode)
- •Intelligent image analysis

DIMENSIONS







VIDEO

Video Input	4 x BNC
Operating mode	AHD 5Mpx, TVI 5Mpx, CVI 5Mpx, analog 960H
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI (FullHD), 1 x VGA (FullHD), 1 x BNC \bullet spot: 1 x BNC interchangeably to main output (only analog cameras for spot display)
IP Streams	hybrid mode: 4 x BNC + 2 x IP
Supported IP resolution	max. 2592 x 1944
AUDIO	
Audio Input/Output	1 x RCA (Line-in)/1 x HDMI, 1 x RCA
RECORDING	
Compression	H.264, H.265
Recording Speed	120 fps (1280 x 720 - HD) • 120 fps (960 x 1080 - 1080p Lite) • 60 fps (1920 x 1080 - FullHD) • 60 fps (1280 x 1440 - 4Mpx Lite) • 40 fps (1280 x 1944 - 5Mpx Lite)
IP recording speed	hybrid mode: 60fps
IP stream size	hybrid mode: 16 Mb/s in total from all IP cameras
Recording Mode	continuous, triggered by: REC/PANIC button, motion detection, image analysis
Schedule	individual settings for: each camera, each day of the week, configuration with an accuracy of: 1 min, possibility of combining individual recording modes $ \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left(\frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left($
Prealarm/postalarm	up to 5 s/up to 10 min
PLAYBACK	
Playback speed	120 fps
IP playback speed	60 fps
Recorded Data Search	by date/time, events, image analysis events, motion in a defined area, tags
BACKUP	
Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	AVI, RPAS (player included)
STORAGE	
Internal storage	available mount: 1 x HDD 3.5" SATA
Total Internal Capacity	10 TB
ALARM	
Motion Detection	18 x 22 grid, individual settings of sensitivity









Multistandard AHD Recorder NHDR-6004-H1-II

System Reaction to Alarm Events buzzer, e-mail, recording activation, PTZ, Full Screen

INTELLIGENT IMAGE ANALYSIS

Number of channels	4 x BNC, 2 x IP (6000 Serie)
Supported functions for analog cameras	Line cross, Zone entrance
Supported functions for IP cameras	Object detection, Exception, Line cross, Zone entrance
NETWORK	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, PPPoE, SMTP, P2P
PC/MAC Software	NMS, Internet Explorer, N Control 6000/N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
Max. Number of Connections with DVR	5 (live monitoring: 5, playback: 5, configuration: 5) , live monitoring up to 10 mainstreams, 24 substreams, playback up to 5 streams
Bandwidth	40 Mb/s in total to all client workstations
PTZ	
PTZ Ports	1 x RS-485
PTZ Protocols	Pelco-D, Pelco-P
PTZ Functions	pan/tilt/zoom, preset commands, patterns
COAX	
COAX Functions	menu, zoom, focus, PTZ
AUXILIARY INTERFACES	
USB Ports	2 x USB 2.0
OPERATING SYSTEM	
Operating System	Linux
OSD	languages: Polish, English, Russian, others
Control	IR remote controller, PC mouse (in-set included), network
System Diagnostic	automatic control of: HDDs, camera connection loss
Security	password protection, IP filtering
INSTALLATION PARAMETERS	
Dimensions (mm)	255 (W) x 42 (H) x 222 (D)
Weight	0.69 kg (without HDD)
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)
Power Consumption	20 W (with 1 HDD)

The recorder is dedicated to work with AHD cameras, Novus 6000 series IP cameras and achieves the best functionality with them. In case of work with IP cameras intelligent image analysis, dualstream mode, PTZ control, motion detection and alarm inputs / outputs functions depend on the functionality of the IP camera and the capabilities of the communication protocol. Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES tab.

-10°C ~ 50°C

Display and playback speeds are achieved using dual stream.

Operating Temperature







Multistandard AHD Recorder

NHDR-6008-H1-II





KEY FEATURES



















- •Video channels: 8, audio channels: 1
- \bullet Recording speed: up to 240 fps (AHD), up to 120 fps (IP)
- •Internal HDDs mount: up to 1
- •Monitor outputs: 3 (2 x main, 1 x spot)
- •Supports HD analog cameras (720p, 1080p, 4MPX, 5MPX)
- •Supports AHD, TVI, CVI cameras
- •IP cameras support (hybrid mode)
- •Intelligent image analysis

DIMENSIONS







VIDEO

Video Input	8 x BNC
Operating mode	AHD 5Mpx, TVI 5Mpx, CVI 5Mpx, analog 960H
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI (FullHD), 1 x VGA (FullHD), 1 x BNC \bullet spot: 1 x BNC interchangeably to main output
IP Streams	hybrid mode: 8 x BNC + 4 x IP
Supported IP resolution	max. 2592 x 1944
AUDIO	
Audio Input/Output	1 x RCA (Line-in)/1 x HDMI, 1 x RCA

Compression H.264, H.265	

Recording Speed	240 fps (1280 x 720 - HD) • 240 fps (960 x 1080 - 1080p Lite) • 120 fps (1920 x 1080 - FullHD) • 120 fps (1280 x 1440 - 4Mpx Lite) • 80 fps (1280 x 1944 - 5Mpx Lite)				
IP recording speed	hybrid mode: 120fps				
IP stream size	hybrid mode: 32 Mb/s in total from all IP cameras				
Recording Mode	continuous, triggered by: REC/PANIC button, alarm input, motion detection, image analysis				
Schedule	individual settings for: each camera, each day of the week, configuration with an accuracy of: 1 min, possibility of combining individual recording modes				

			_				
realarm/postalarm	up	to	5	s/ur) to	10	min

DI VANVE

PLATBACK	
Playback speed	240 fps
IP playback speed	120 fps
Recorded Data Search	by date/time, events, image analysis events, motion in a defined area, tags

BACKUP

Backup Methods	USB port (HDD or Flash memory), network	
Backup File Format	AVI, RPAS (player included)	

STORAGE

Internal storage	available mount: 1 x HDD 3.5" SATA
Total Internal Capacity	10 TB

ALARM	
Motion Detection	18 x 22 grid, individual settings of sensitivity
System Reaction to Alarm Events	buzzer, e-mail, recording activation, PTZ, Full Screen









Multistandard AHD Recorder NHDR-6008-H1-II

INTELL	I/CENIT		ANALYSIS	4
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INTELLIGENT IMAGE ANALTSI	<u> </u>
Number of channels	8 x BNC, 4 x IP (6000 Serie)
Supported functions for analog cameras	Line cross, Zone entrance
Supported functions for IP cameras	Object detection, Exception, Line cross, Zone entrance
NETWORK	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, PPPoE, SMTP, P2P
PC/MAC Software	NMS, Internet Explorer, N Control 6000/N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
Max. Number of Connections with DVR	$\bf 5$ (live monitoring: 5, playback: 5, configuration: 5) , live monitoring up to 16 mainstreams, 48 substreams, playback up to 8 streams
Bandwidth	60 Mb/s in total to all client workstations
PTZ	
PTZ Ports	1 x RS-485
PTZ Protocols	Pelco-D, Pelco-P
PTZ Functions	pan/tilt/zoom, preset commands, patterns
COAX	
COAX Functions	menu, zoom, focus, PTZ
AUXILIARY INTERFACES	
USB Ports	2 x USB 2.0
OPERATING SYSTEM	
Operating System	Linux
OSD	languages: Polish, English, Russian, others
Control	IR remote controller, PC mouse (in-set included), network
System Diagnostic	automatic control of: HDDs, camera connection loss
Security	password protection, IP filtering
INSTALLATION PARAMETERS	
Dimensions (mm)	255 (W) x 42 (H) x 233 (D)
Weight	0.77 kg (without HDD)
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)
Power Consumption	20 W (with 1 HDD)
Operating Temperature	-10°C ~ 50°C

The recorder is dedicated to work with AHD cameras, Novus 6000 series IP cameras and achieves the best functionality with them. In case of work with IP cameras intelligent image analysis, dualstream mode, PTZ control, motion detection and alarm inputs / outputs functions depend on the functionality of the IP camera and the capabilities of the communication protocol. Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES tab.

Display and playback speeds are achieved using dual stream.







NoVus

Multistandard AHD Recorder

NHDR-6116-H2-II





KEY FEATURES













- •Video channels: 16, audio channels: 8
- Recording speed: up to 480 fps (AHD), up to 480 fps (IP)
- •Internal HDDs mount: up to 2
- •Monitor outputs: 3 (2 x main, 1 x spot)
- •Supports HD analog cameras (720p, 1080p, 4MPX, 5MPX)
- •Supports AHD, TVI, CVI cameras
- •IP cameras support (hybrid mode)
- •Intelligent image analysis

DIMENSIONS



VIDEO	
Video Input	16 x BNC
Operating mode	AHD 5Mpx, TVI 5Mpx, CVI 5Mpx, analog 960H
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI (FullHD), 1 x VGA (FullHD), 1 x BNC \bullet spot: 1 x BNC interchangeably to main output
IP Streams	hybrid mode: 16 x BNC + 8 x IP • IP mode: 8 x BNC + 16 x IP
Supported IP resolution	max. 2592 x 1944
AUDIO	
Audio Input/Output	8 x RCA (Line-in)/1 x HDMI, 1 x RCA
RECORDING	
Compression	H.264, H.265
Recording Speed	480 fps (1280 x 720 - HD) • 480 fps (960 x 1080 - 1080p Lite) • 240 fps (1920 x 1080 - FullHD) • 240 fps (1280 x 1440 - 4Mpx Lite) • 160 fps (1280 x 1944 - 5Mpx Lite)
IP recording speed	hybrid mode: 240fps • IP mode: 480fps
IP stream size	hybrid mode: 32 Mb/s in total from all IP cameras • IP mode: 64 Mb/s in total from all IP cameras
Recording Mode	continuous, triggered by: REC/PANIC button, alarm input, motion detection, image analysis
Schedule	individual settings for: each camera, each day of the week, configuration with an accuracy of: 1 min, possibility of combining individual recording modes $ \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left(\frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left($
Prealarm/postalarm	up to 5 s/up to 10 min
PLAYBACK	
Playback speed	480 fps
IP playback speed	480 fps
Recorded Data Search	by date/time, events, image analysis events, motion in a defined area, tags
BACKUP	
Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	AVI, RPAS (player included)
STORAGE	
Internal storage	available mount: 2 x HDD 3.5" SATA
Total Internal Capacity	16 TB

16/4 relay type







ALARM

Alarm Input/Output



Multistandard AHD Recorder NHDR-6116-H2-II

Motion Detection	18 x 22 grid, individual settings of sensitivity
System Reaction to Alarm Events	buzzer, e-mail, alarm output activation, recording activation, PTZ, Ful Screen
INTELLIGENT IMAGE ANALYSI	S
Supported functions for analog cameras	Line cross, Zone entrance
Supported functions for IP cameras	Object detection, Exception, Line cross, Zone entrance
NETWORK	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, PPPoE, SMTP, P2P, HTML5
PC/MAC Software	NMS, Internet Explorer, Firefox, Chrome, Opera, N Control 6000, Edge/Safari, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
Number of Simultaneous Connection	nsup to 10 (live monitoring: 10, playback: 10, configuration: 10) , live monitoring up to 28 mainstreams, 96 substreams, playback up to 8 streams
Bandwidth	96 Mb/s in total to all client workstations
PTZ	
PTZ Ports	1 x RS-485
PTZ Protocols	Pelco-D, Pelco-P
PTZ Functions	pan/tilt/zoom, preset commands, patterns
COAX	
COAX Functions	menu, zoom, focus, PTZ
AUXILIARY INTERFACES	
USB Ports	1 x USB 2.0, 1 x USB 3.0
	2 × 005 2.0, 2 × 005 0.0
OPERATING SYSTEM	
Operating System	Linux
OSD	languages: Polish, English, Russian, others
Control	IR remote controller, PC mouse (in-set included), network
System Diagnostic	automatic control of: HDDs, camera connection loss
Security	password protection, IP filtering
INSTALLATION PARAMETERS	
Dimensions (mm)	380 (W) x 45 (H) x 268 (D)
RACK Mount 19"	10
Weight	1.72 kg (without HDD)
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)
Power Consumption	48 W (with 2 HDDs)
Operating Temperature	-10°C ~ 50°C
	10 0 00 0







Multistandard AHD Recorder

NHDR-6016-H1





KEY FEATURES













- •Video channels: 16, audio channels: 1
- Recording speed: up to 480 fps (AHD), up to 480 fps (IP)
- •Internal HDDs mount: up to 1
- •Monitor outputs: 3 (2 x main, 1 x spot)
- •Supports HD analog cameras (720p, 1080p, 4MPX, 5MPX)
- •Supports AHD, TVI, CVI cameras
- •IP cameras support (hybrid mode)
- •Intelligent image analysis

DIMENSIONS







VIDEO

Video Input	16 x BNC
Operating mode	AHD 5Mpx, TVI 5Mpx, CVI 5Mpx, analog 960H
Monitor Output	main (split screen, full screen, sequence): $1 \times HDMI$ (FullHD), $1 \times VGA$ (FullHD), $1 \times BNC \cdot spot$: $1 \times BNC$ interchangeably to main output
IP Streams	hybrid mode: 16 x BNC + 8 x IP • IP mode: 8 x BNC + 16 x IP
Supported IP resolution	max. 2592 x 1944
AUDIO	

AUDIC

Audio Input/Output 1 x RCA (Line-in)/1 x HDMI, 1 x RCA

RECORDING

Compression	H.264, H.265	
Recording Speed	480 fps (1280 x 720 - HD) • 480 fps (960 x 1080 - 1080p Lite) • 240 fps (1920 x 1080 - FullHD) • 240 fps (1280 x 1440 - 4Mpx Lite) • 160 fps (1280 x 1944 - 5Mpx Lite)	
IP recording speed	hybrid mode: 240fps • IP mode: 480fps	
IP stream size	hybrid mode: 32 Mb/s in total from all IP cameras • IP mode: 64 Mb/s in total from all IP cameras	
Recording Mode	continuous, triggered by: REC/PANIC button, motion detection, image analysis	
Schedule	individual settings for: each camera, each day of the week,	

Prealarm/postalarm PLAYBACK

Playback speed	480 fps
IP playback speed	480 fps
Recorded Data Search	by date/time, events, image analysis events, motion in a defined area, tags

individual recording modes

up to 5 s/up to 10 min

BACKUP

Backup Methods	USB port (HDD or Flash memory), network	
Backup File Format	AVI, RPAS (player included)	
STORAGE		
Internal storage	available mount: 1 x HDD 3.5" SATA	

ALARM

Total Internal Capacity

Motion Detection	18 x 22 grid, individual settings of sensitivity

8 TB





configuration with an accuracy of: 1 min, possibility of combining





Multistandard AHD Recorder NHDR-6016-H1

System Reaction to Alarm Events buzzer, e-mail, recording activation, PTZ, Full Screen

INTELLIGENT IMAGE ANALYSIS	MAGE ANALYSIS	INTELLIGENT
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Supported functions for analog cameras	Object detection, Line cross
Supported functions for IP cameras	Object detection, Exception, Line cross, Zone entrance
NETWORK	
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, PPPoE, SMTP, P2P
PC/MAC Software	NMS, Internet Explorer, NVR-6000 Viewer, N Control 6000/N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
Max. Number of Connections with DVR	10 (live monitoring: $10,playback;8,configuration;10)$, live monitoring up to 28 mainstreams, 96 substreams, playback up to 8 streams
Bandwidth	80 Mb/s in total to all client workstations
PTZ	
PTZ Ports	1 x RS-485
PTZ Protocols	Pelco-D, Pelco-P
PTZ Functions	pan/tilt/zoom, preset commands, patterns
COAX	
COAX Functions	menu, zoom, focus, PTZ
AUXILIARY INTERFACES	
USB Ports	2 x USB 2.0
OPERATING SYSTEM	
Operating System	Linux
OSD	languages: Polish, English, Russian, others
Control	IR remote controller, PC mouse (in-set included), network
System Diagnostic	automatic control of: HDDs, camera connection loss
Security	password protection, IP filtering
INSTALLATION PARAMETERS	
Dimensions (mm)	255 (W) x 42 (H) x 234 (D)
Weight	0.92 kg (without HDD)
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)
Power Consumption	20 W (with 1 HDD)
Operating Temperature	-10°C ~ 50°C

The recorder is dedicated to work with AHD cameras, Novus 3000 and 6000 series IP cameras and achieves the best functionality with them. In case of work with IP cameras intelligent image analysis, dualstream mode, PTZ control, motion detection and alarm inputs / outputs functions depend on the functionality of the IP camera and the capabilities of the communication protocol. Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES tab.

Display and playback speeds are achieved using dual stream.











IR LED Illuminator

NV-IR60/150LED



KEY FEATURES







KEY FEATURES

- •outdoor range up to 150 m
- •60° LED angle
- •Extended IR LED life
- •Adjustable IR LED intensity
- •Adjustable visible light sensor sensitivity
- •Weatherproof enclosure

DIMENSIONS





IR LED

LED Number	20 High Power LEDs
Range	150 m
Angle	60°
Wavelength	850 nm

INSTALLATION PARAMETERS

Dimensions (mm)	127 (W) x 205 (H) x 135 (L)
Weight	1.64 kg
Enclosure	aluminium, black, in-set included: bracket
Power Supply	12 VDC/24 VAC
Power Consumption	45 W
Operating Temperature	-35°C ~ 50°C
Degree of Protection	IP 66





NoVus

IR LED Illuminator

NV-IR60/80LED



KEY FEATURES





KEY FEATURES

- •range up to 80 m
- •60° LED angle
- •visible light sensor
- •Weatherproof enclosure

DIMENSIONS



157 mm (Ø)



IR LED

LED Number	147 diodes
Range	80 m
Angle	60°
Wavelength	850 nm

INSTALLATION PARAMETERS

Dimensions (mm)	157 φ x 228 (lenght)
Weight	2.4 kg
Enclosure	aluminium, black, in-set included: bracket
Power Supply	12 VDC/24 VAC
Power Consumption	17W at 12VDC, 30W at 24VAC
Operating Temperature	-30°C ~ 40°C
Degree of Protection	IP 66

NoVus

IR LED Illuminator

NV-IR120/40LED



KEY FEATURES





KEY FEATURES

- •range up to 40 m
- •120° LED angle
- •visible light sensor
- •Weatherproof enclosure

DIMENSIONS



157 mm (Ø)



IR LED

LED Number	147 diodes
Range	40 m
Angle	120°
Wavelength	850 nm

INSTALLATION PARAMETERS

Dimensions (mm)	157 φ x 228 (lenght)	
Weight	2.4 kg	
Enclosure	aluminium, black, in-set included: bracket	
Power Supply	12 VDC/24 VAC	
Power Consumption	17W at 12VDC, 30W at 24VAC	
Operating Temperature	-30°C ~ 40°C	
Degree of Protection	IP 66	

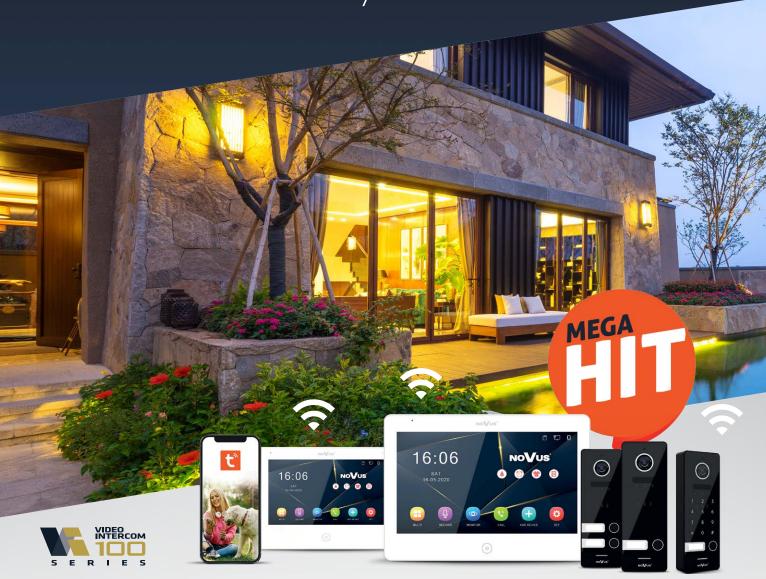


IP VIDEOINTERCOMS

NoVus®

IP VIDEO INTERCOMS

Sense of safety



The perfect solution for single-family houses!

Professional and modern

NOVUS video-intercom system



BENEFITS

HYBRID SYSTEM

Clean and convenient installation without forging or laying wires. The NVE-EPV101KPWIFI monitors and panel support Wi-Fi technology, so they can work in a wireless network.

CAMERAS PREVIEW

Integration with the VSS system allows to display up to 8 video streams which can be viewed through the TuYa Smart APP.

DVR FUNCTION

Once detected, the monitors or panel * will record video for 1 minute followed by one minute pause. After another detection occurs, the system will record video for 1 minute. Only the first 4 streams added to the monitor can be recorded. Streams 5-8 can only be previewed.



MESSAGE FOR CUSTOMERS

Do you run a home business and finally have a vacation? Record a message to your clients that will be played from the speaker of the entry panel!

HIGH QUALITY AUDIO

Enjoy clear sound and hassle-free conversation with the visitor!

NIGHT MODE

Schedule the hours for the monitor to work in the evening and never again a loud bell will wake up the whole house at midnight.

POSSIBILITY OF PERSONALIZATION

Do you have a favorite picture and you like the type of music you choose? Set a photo as the background and a song as your panel ringtone.

ADDITIONAL FEATURES

User monitor is not only a video-intercom, it can display the time or your favorite photos uploaded to SD card.

REGISTRATION OF GUESTS

Are you not at home? Have you disabled call redirection to the app? The system will save a video or photo of the person who tried to visit you.

MOBILE APP

- > redirecting calls z from panels to the application and the possibility of talking to guests
- > playback of recordings from the internal memory of monitors or panels*
- door, gate contro
- preview from panels and IP cameras with the possibility of saving photos and recording videos
- > **PUSH alarm notifications** for motion detection function

*NVE-EPV101KPWIFI

Wherever you are, whatever you are doing, use the mobile app to see who is going to visit you!



wideodowofony.aat.pl







IP User monitor

NVE-MV107WIFI





NVE-MV107WIFI villa user monitor is an elegant and aesthetically made device designed for installation in a residential or office. A large 7 "color screen and an intuitive menu allows quick and convenient use of its functions. In addition to the basic functions (camera image display, door opening), the on-screen menu also allows you to view and delete voice messages, photos and videos as well as play music. Internal memory of the device allows you to save up to 100 photos. The built-in loudspeaker and microphone facilitate operation and communication with the guest. Communication with another user is also possible thanks to the intercom function. The optionally connection of eight cameras can create a simple VSS system enriched with motion detections.

- IP User monitor
- wall bracket compatible with electric box 60 mm
- 2x fixing scerws and expansion bolts
- RJ45 adapter with cable
- short manual

Device type	IP Indoor monitor
Display	LCD TFT
Resolution	1024 x 600 px
Diagonal	7"
Video coding	H.265 (default); H.264
Power supply input	15 V DC
PoE	48 V DC (802.3af)
Power consumption	530mA 8 W (Max.)
Ringbell output	NO Relay (4 A / 36 V DC/AC)
Port LAN	1 x 10M / 100M Ethernet
Wi-Fi	Dual Band 2,4 GHz/5 GHz (IEEE 802.11 a/b/g/n)
Additional functions	SD card slot, volume control, monitoring of the view from cameras, intercom calls, voice mail, photos and video recording, mobile application via WIFI, doorbell, Status LED
Dimensions	188 x 136 x 22 mm
Weight	380g
Operating temperature	from -10 to 50 °C
Color	Signal White (RAL9003)









IP User monitor

NVE-MV110WIFI





NVE-MV110WIFI villa user monitor is an elegant and aesthetically made device designed for installation in a residential or office. A large 10,1 "color screen and an intuitive menu allows quick and convenient use of its functions. In addition to the basic functions (camera image display, door opening), the on-screen menu also allows you to view and delete voice messages, photos and videos as well as play music. Internal memory of the device allows you to save up to 100 photos. The built-in loudspeaker and microphone facilitate operation and communication with the guest. Communication with another user is also possible thanks to the intercom function. The optionally connection of eight cameras can create a simple VSS system enriched with motion detections.

- IP User monitor
- wall bracket compatible with electric box 60 mm
- 2x fixing scerws and expansion bolts
- RJ45 adapter with cable
- short manual

Device type	IP Indoor monitor
Display	LCD TFT
Resolution	1024 x 600 px
Diagonal	10"
Video coding	H.265 (default); H.264
Power supply input	15 V DC
РоЕ	48 V DC (802.3af)
Power consumption	530mA 8 W (Max.)
Ringbell output	NO Relay (4 A / 36 V DC/AC)
Port LAN	1 x 10M / 100M Ethernet
Wi-Fi	Dual Band 2,4 GHz/5 GHz (IEEE 802.11 a/b/g/n)
Additional functions	SD card slot, volume control, monitoring of the view from cameras, intercom calls, voice mail, photos and video recording, mobile application via WIFI, doorbell, Status LED
Dimensions	255 x 180 x 21 mm
Weight	732g
Operating temperature	from -10 to 50 °C
Color	Signal White (RAL9003)









IP Entrance panel

NVE-EPV101P





NVE-EPV101P villa entrance panel is an elegant and aesthetic device designed for outdoor use, e.g. in front of the entrance to the property. It allows to easily communicate with the owner of the house using the bell button and the built-in color camera. IR illumination allows trouble-free use of the panel also at night. The built-in Unique 125 kHz proximity card reader allows to create a simple access control and facilitates the daily use of the system. Support for two relays allows to control both the wicket and the gate.

- IP Entrance panel
- wall bracket
- 2x fixing screws and expansion bolts
- inner hexagon screw
- allen wrench
- 3x proximity tag
- RJ45 adapter
- nameplate sticker
- thimble
- short manual

Device type	IP Entrance panel
Number of users	1
Sensor	CMOS HD 2 MPx
Resolution	1920 x 1080 px
View angle	120 °
Video coding	H.265 (default); H.264
Power supply input	15 V DC
PoE	48 V DC (802.3af)
Power consumption	300mA 4,5 W (Max.)
Lock output	NO Relay (4 A / 36 V DC/AC)
Gate output	NO Relay (4 A / 36 V DC/AC)
Port LAN	1 x 10M / 100M Ethernet
Wi-Fi	No
Standalone mode	No
Card reader format	Unique
Number of cards supported	100
Numeric keyboard	No
Access Code	No
Additional functions	LED IR, mounting on an angular bracket, Status LEDs









IP Entrance panel NVE-EPV101P

Dimensions	154 x 55 x 21 mm
Weight	375g
Protection code	IP66
Operating temperature	from -40 to 60 °C
Color	Graphite black (RAL9011)









IP Entrance panel

NVE-EPV102P





NVE-EPV102P villa entrance panel is an elegant and aesthetic device designed for outdoor use, e.g. in front of the entrance to the property. It allows to easily communicate with the homeowners using the bell button and the built-in color camera. IR illumination allows trouble-free use of the panel also at night. The built-in Unique 125 kHz proximity card reader allows to create a simple access control and facilitates the daily use of the system. Support for two relays allows to control both the wicket and the gate.

- IP Entrance panel
- wall bracket
- 2x fixing screws and expansion bolts
- inner hexagon screw
- allen wrench
- 3x proximity tag
- RJ45 adapter
- nameplate sticker
- thimble
- short manual

Device type	IP Entrance panel
Number of users	2
Sensor	CMOS HD 2 MPx
Resolution	1920 x 1080 px
View angle	120 °
Video coding	H.265 (default); H.264
Power supply input	15 V DC
PoE	48 V DC (802.3af)
Power consumption	300mA 4,5 W (Max.)
Lock output	NO Relay (4 A / 36 V DC/AC)
Gate output	NO Relay (4 A / 36 V DC/AC)
Port LAN	1 x 10M / 100M Ethernet
Wi-Fi	No
Standalone mode	No
Card reader format	Unique
Number of cards supported	100
Numeric keyboard	No
Access Code	No
Additional functions	LED IR, mounting on an angular bracket, Status LEDs









IP Entrance panel NVE-EPV102P

Dimensions	154 x 55 x 21 mm
Weight	380g
Protection code	IP66
Operating temperature	from -40 to 60 °C
Color	Graphite black (RAL9011)









IP/WIFI Entrance panel

NVE-EPV101KPWIFI





NVE-EPV101KPWIFI villa entrance panel is an elegant and aesthetic device designed for outdoor use, e.g. in front of the entrance to the property. It allows to easily communicate with the owner of the house using the bell button and the built-in color camera. IR illumination allows trouble-free use of the panel also at night. The built-in Unique 125 kHz proximity card reader and the numeric keypad allows to create a simple access control and facilitate the daily use of the system. Support for two relays allows to control both the wicket and the gate. The third relay allows to connect an additional bell. Thanks to the use of WiFi technology, the panel can also work autonomously with the Tuya Smart application and / or wirelessly with subscriber monitors.

- IP Entrance panel
- WIFI antenna
- wall bracket
- 2x fixing screws and expansion bolts
- inner hexagon screw
- allen wrench
- 3x proximity tag
- RJ45 adapter
- nameplate sticker
- thimble
- short manual

Device type	IP Entrance panel
Number of users	1
Sensor	CMOS HD 2 MPx
Resolution	1920 x 1080 px
View angle	120 °
Video coding	H.265 (default); H.264
Power supply input	15 V DC
Power consumption	300mA 4,5 W (Max.)
Lock output	NO Relay (4 A / 36 V DC/AC)
Gate output	NO Relay (4 A / 36 V DC/AC)
Ringbell output	NO Relay (4 A / 36 V DC/AC)
Port LAN	1 x 10M / 100M Ethernet
Wi-Fi	Dual Band 2,4 GHz/5 GHz (IEEE 802.11 a/b/g/n)
Standalone mode	Yes
Card reader format	Unique
Number of cards supported	100
Numeric keyboard	Yes









IP/WIFI Entrance panel NVE-EPV101KPWIFI

Access Code	Yes
Additional functions	LED IR, mobile application via WIFI, mounting on an angular bracket, Status LEDs, Stand alone mode
Dimensions	154 x 55 x 21 mm
Weight	380g
Protection code	IP66
Operating temperature	from -40 to 60 °C
Color	Graphite black (RAL9011)









VIDEO INTERCOMS

Sense of safety!

ONLY A FEW DEVICES ENDLESS POSSIBILITIES OF EXPANSION

QUICK AND EASY SYSTEM SCALING THANKS TO IP TECHNOLOGY



MOBILE APP

- > call forward from monitors to app and possibility of voice chat with guests
- > control of door/wicket and gate
- preview image of entrance panel's cameras with possibility of saving photos and recording videos
- alarm Push notifications









IP user monitor

NVE-M200LITE





The **NVE-M200** IP user monitor is an elegant and aesthetically made device designed for installation in a residential or office space. The large color screen and intuitive menu allows quick and convenient use of its functions. In addition to the basic functions (camera image display, door opening), the on-screen menu also allows you to view and delete messages and photos. The device's basic memory allows you to save up to 100 photos or 10 videos. Built-in speaker and microphone facilitate operation and communication with guests, security of the building or other premises. Communication with another subscriber is also possible by receiving and sending text messages entered from the keyboard displayed on the screen. The door opening command from the icon on the screen can be additionally password protected. Optionally eight input lines can create a simple alarm system enriched with images from cameras. The subscriber is armed / disarmed by means of an icon on the screen. The alarm is signaled locally and on the security monitor. Disabling the alarm requires a special password.

Device type	Indoor monitor
Display	LCD TFT
Resolution	1024 x 600 px
Diagonal	7"
Power supply input	12 V DC
PoE	48 V DC (standard PoE)
Additional functions	alarm functions, SD card slot, volume control, monitoring of the view from cameras, intercom calls, text messages, voice mail, photos and video recording
Power consumption	300mA
Operating temperature	from -10 to 55 °C
Dimensions	210 x 140 x 20 mm









IP user monitor

NVE-M200WIFI





The **NVE-M200** IP user monitor is an elegant and aesthetically made device designed for installation in a residential or office space. The large color screen and intuitive menu allows quick and convenient use of its functions. In addition to the basic functions (camera image display, door opening), the on-screen menu also allows you to view and delete messages and photos. The device's basic memory allows you to save up to 100 photos or 10 videos. Built-in speaker and microphone facilitate operation and communication with guests, security of the building or other premises. Communication with another subscriber is also possible by receiving and sending text messages entered from the keyboard displayed on the screen. The door opening command from the icon on the screen can be additionally password protected. Optionally eight input lines can create a simple alarm system enriched with images from cameras. The subscriber is armed / disarmed by means of an icon on the screen. The alarm is signaled locally, on the security monitor and by PUSH notifications through mobile app. Disabling the alarm requires a special password.

Device type	Indoor monitor
Display	LCD TFT
Resolution	1024 x 600 px
Diagonal	7"
Power supply input	12 V DC
PoE	48 V DC (standard PoE)
Additional functions	alarm functions, additional door panel, SD card slot, volume control, monitoring of the view from cameras, intercom calls, text messages, voice mail, photos and video recording, mobile application via WIFI
Power consumption	300mA
Operating temperature	from -10 to 55 °C
Dimensions	210 x 140 x 20 mm









IP Guard monitor

NVE-GM200





The **NVE-GM200** IP guard monitor is an elegant and aesthetically made device designed for installation in a building's security room or housing estate. The large color screen and intuitive menu allows quick and convenient use of its functions. In addition to the basic functions (camera image display, door opening), the on-screen menu also allows you to view and delete messages and photos. The device's basic memory allows you to save up to 100 photos. Built-in speaker and microphone facilitate operation and communication with the guest or a selected apartment. Communication with the selected abonent is also possible by receiving and sending text messages entered from the keyboard displayed on the screen.

Device type	Security Monitor
Display	LCD TFT
Resolution	800 x 480 px
Diagonal	7"
Power supply input	12 V DC
PoE	18 V DC (only NVE-SW200-7P)
Additional functions	volume control, mounting on a stand, monitoring of alarm functions, monitoring of the view from cameras, text messages
Power consumption	300mA
Operating temperature	from -10 to 55 °C
Dimensions	326 x 206 x 56 mm









IP entrance panel

NVE-EP200





The NVE-EP200 IP entrance panel is intended for installation before entering a housing estate or a staircage in a building. Large, readable and integrated keyboard with an interface for an intuitive user to choose how to use the connection to the location or security of the object. Depending on the location of the panel menu available on the list, you can choose the block number (to enter the building) or change the premises (to enter the staircage). LED backlight allows for trouble-free use of the panel also at night. Recessed in the walls of the housing provides an esthetic appearance, resistance to vandalism and IP64 protection, useful for long periods of use.

Device type	Entrance panel
Display	LCD TFT
Resolution	320 x 240 px
View angle	128 °
Diagonal	7"
Card reader format	Unique
Additional functions	LED, vandal-proof housing, flush mounting
Power consumption	180mA
Operating temperature	from -40 to 55 °C
Protection code	IP64
IK Rating	IK07
Dimensions	318 x 130 x 51 mm
Sensor	Color camera 2Mpx







NoVus

sPoE Switch

NVE-SW200-7P





The **NVE-SW200-7P** switch is a device intended for communication of other NVE system devices, i.e. input panels with monitors. Seven ports allow you to connect and power with sPoE 18VDC a group of devices and an additional UP-LINK port allows you to connect another switch if needed.

Device type	sPoE network switch
Additional functions	DIN rail mounting
Operating temperature	from 0 to 40 °C
Dimensions	178 x 115 x 53 mm
Ports	sPoE: 7 x 10/100Mb/s, UPLINK: 1 x 10/100Mb/s
Weight	262g









8-port PoE + switch with the possibility of mounting on a DIN rail

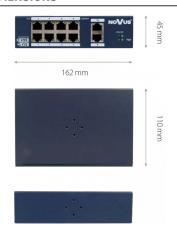
NVS-3308SP-DIN



KEY FEATURES

- •8 x 100Mb/s PoE+
- •2 x 1000Mb/s UPLINK
- •Operating temperature: $0^{\circ}\text{C} \div 40^{\circ}\text{C}$

DIMENSIONS



GENERAL

Device Type	PoE+ Switch
NETWORK	
Ports	PoE+ Ports: 8 x 10Mb/s / 100Mb/s (at the same time the number of available ports on the PoE + mode, limited by capacity power supply) • Ports RJ-45 UPLINK 1Gb/s: 2
PoE standards	IEEE802.3 af, IEEE802.3 at
PoE modes	Endspan (1,2+ / 3,6-)
Switching capacity	5.6 Gb/s
Protocols Support	IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3x
MAC ADDRESS list	4K

INSTALLATION PARAMETERS

INSTALLATION FARAPILITIES		
Case	Metal, color navy blue, enclosure with possibility to mount on DIN TH35 rail	
Dimensions (mm)	162 (W) x 110 (H) x 45 (L)	
Weight	700 g	
Power Supply	48 - 56VDC	
Power Consumption	120 W	
Power Efficiency	114 W for ports 1 to 8, up to 30 W for one port	
Operating Temperature	0°C ~ 40°C	

Note that for the device to work properly, you need to buy a power supply with parameters in accordance with the specification.









Power supply

NVE-PS200





The **NVE-PS200** power supply is a device designed to power the other components of the NVE series system through the sPOE switches - NVE-SW200-7P. The impulse converter guarantees economical operation of the device. Convenient DIN rail mounting allows quick installation in one housing with switch NVE-SW200-7P. Several types of security guarantee safe operation.

Device type	Impulse power supply
Additional functions	DIN rail mounting
Operating temperature	from 0 to 50 °C
Dimensions	140 x 97 x 58 mm
Weight	355g
Input voltage	~100/240V @1.7A 50-60Hz
Output Voltage	18VDC
Output current	3A
Continuous power	63W
Protection	Overvoltage, Overload, Short circuit, Thermal









Housing for surface mounting with a rainshield for the NVE-EP200 panel

NVE-EPCOV-SUR





Housing for surface mounting with a rainshield, with oil painting aluminium alloy material. Intended for NVE-EP200 entrance panel.









Frame for flush mounting with rainshield for NVE-EP200 panel

NVE-EPCOV-FLUSH











NOVUS

Bracket for mounting a user monitor with a Ø60 flush-mounted gang box

NVE-MBRK





The NVE-MBRK bracket is designed for mounting a user monitor with the use of a Ø60 flush-mounted one-gang box. The one-gang box provides space for the RJ45 connector of the user monitor. The bracket allows to install the user monitor without the requirement to drill additional holes for mounting screws.







WWW.AAT.PL/EN
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