# NOVUS

## **IP Camera with video content** analysis based on Deep Learning

NVIP-4V-6511/F-II





#### FUNCTIONS













58 mm











## **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
  •WDR with double scan sensor
- •Min. Illumination: 0.005 lx (0 lx, IR on)
  •IR LED, range up to 20 m

## DIMENSIONS



110 mm (Ø)



The camera is dedicated to work with NOVUS 6000 series recorders. Detailed data can be found in the compatibility table available in the DOWNLOADABLE FILES tab.

Camera Configuration from Internet Exports. ATMP Compatible Software NOVUS MANAGEMENT SYSTEM VSS, NOVUS MANAGEMENT SYSTEM AC, N Control 6000 Mobile applications N-VID6 (Phone, 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)  Video Content Analysis (VCA)		
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Multipartaming Mode   3 streams   1	Frame Rate	30 fps for 2592 x 1520, 60 fps for 1920 x 1080 (Full HD) and lower resolutions
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Bumber of Simultaneous Connections	Video/Audio Compression	H.264, H.264+, H.265, H.265+, MJPEG/G.711
Network Protocols Support  PITTS TOTIP 19-4, 19-4/5, UP-1/5, UP-1/5, UP-1/5, UP-1/5, SNMP, QoS, IEEE 802. PRPSC_SMTP RTC_HTMLS_SMTP.  Camera Configuration  from Internet Explorer, Chrome, Opera, Safari browser  Another Samples (Software  NOVUS MANAGEMENT SYSTEM AC, NI Control 6000  N-VIDG (Phone, Android)  Privacy Zones  A video mask type: single color or 4 video mask type: mosaic  Region of internet (ROI)  8  Region of internet (ROI)  Region o	Number of Simultaneous Connections	max. 10
Camera Configuration Camera Configuration Camera Configuration Compatible Software NOVUS MANAGEMENT SYSTEM VS, NOVUS MANAGEMENT SYSTEM AC, N Control 6000 Mobile applications N-VID6 (Phone, Android) Other functions  Privacy Zones 4 video mask type: single color or 4 video mask type: mosalc Motion Detection Region of Interest (ROI) 8 Region of I	Bandwidth	50 Mb/s in total
languages: Polita, English, and others ONOUS MANAGEMENT SYSTEM VS, NOVUS MANAGEMENT SYSTEM AC, N Control 6000 Mobile applications Other functions  Wideo mask type: single color or 4 video mask type: mosaic Motion Detection Region of interest (ROI)  Video Content Analysis (VCA) Video Content Analysis (VCA) Video Content Analysis (VCA) Video Content Analysis (VCA)  Image Processing  Mage Processing  Mage realion, shapening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction Video Content Analysis (VCA)  Wideo Content Analysis (VCA)  W	Network Protocols Support	
Mobile applications         N-VID6 ((Phone, 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)         a pandaned object, object disappearance, line cross, sone entrance, zone cuit, object counting, detection, cross counting, heat maps, scender, change, video blurner, lived color cast, objects distinguishing, people counting, intrusi detection, video metadata           Image Processing         180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction           Yestern Reaction to Marm Events         e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card           Restoring default settings         2           Range         20 m           Smart IR         2           Use of the stream of th	-	languages: Polish, English, and others
Other functions           Privacy Zones         4 video mask type: single color or 4 video mask type: mosalc           Motion Detection         yes           Region of interest (ROI)         8           tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, reference in change, video color cast, objects distinguishing, people counting, helat maps, senderation, describing detection, or cross counting, helat maps, senderation, describing detection, describing in cross counting, helat maps, senderation, describing masks, pedestrian detection, cross counting, helat maps, senderation, describing masks, pedestrian detection, cross counting, helat maps, senderation, describing masks, pedestrian detection, cross counting, helat maps, senderation detection, detection, detection, detection, detection, detection, describing masks, pedestrian detection, cross counting, helat maps, senderation detection, detection, detection, detection, describing masks, pedestrian detection, detectio		
Privacy Zones 4 video mask type: single color or 4 video mask type: mosaic  Motion Detection yes  Region of interest (ROI) 8  Region of interest (ROI) 8  Video Content Analysis (VCA) change, video biject, object disappearance, line cross, zone entrance, zone exit, object counting, it detection, detection of people on twearing masks, pedestrain detection, cross counting, heart map, scent detection, video metadatia of the color cast, objects distinguishing, people counting, intrust detection, video metadatia of the color cast, objects distinguishing, people counting, intrust detection, video metadatia or correction  mage Processing 30° 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  ILED Number 2  Range 20 m  Smart IR yes (software support)  Interfaces  Audio Input/Output 1, 1 s/ack (3.5 mm)/- built in microphone  Network Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s  Memory Card Slot microphone  Memory Card Slot microphone  Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s  Microphone (3.0 kg)  Installation parameters  Dimensions (mm) 110 (9) x 59.8 (H)  Degree of Protection Pip 66 (details in the user's manual)  Power Supply 12 VDC, Poel (IEEE 80.2.3d, Class 3)  Surge protection TVS 4000 V  Power Consumption 4 W (IR Illuminalator on)		N-VID6 (iPhone, Android)
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, inderection, detection of people not wearing masks, pedestrian detection, cross counting, heat map, sene change, video butdec color cast, objects distinguishing, people counting, intrust detection, video metadata           Image Processing         180° image roation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction           Prealarm/Postalarm         up to 6 sup 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         2           Ik LED         2           Smart IR         2           Smart IR         yes (software support)           Interfaces         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         public in microphone           Dienesions (mm)         110 (a) x 9.8 (H)           Weight         0.4 kg           Degree of Protection         1 pe 66 (details in the user's manual)           Enclosure         vandalproof (	Other functions	
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Video Content Analysis (VCA)   Calculation of the Content Analys		
Video Content Analysis (VCA)         detection of people not wearing masks, pedestrian detection, cross counting, heat map, seen change, video color cast, objects distinguishing, people counting, white counting, intrusi detection, video metadata           Image Processing         180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction           Prealarm/Postalarm         up to 6 shup 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         2           Range         20 m           Smart IR         yes (software support)           Interfaces         1 x Jack (3.5 mm)/- bullich im ricrophone           Network interface         1 x Ethernet - R,45 interface, 10/100 Mbit/s           Memory Card Slot         microSD - capacity up to 256GB           Installation parameters         Interface           Dimensions (mm)         110 (9) x 59.8 (H)           Weight         0.4 kg           Degree of Protection         in P6 (defauls in the user's manual)           Enclosure         vandalprof K10 impact rating aluminium, white           Power Supply         12 VDC, P6 (IEEE 802.3af, Class 3)           Surge protection         4 W (R	Region of interest (ROI)	
correction Prealarm/Postalarm System Reaction to Alarm Events Restoring default settings IR LED  LED Number Range 20 m Smart IR LED Vester Reaction to Alarm Events Swister Reaction to Alarm Events Smart IR Smart IR LED Vester Reaction to Alarm Events Smart IR LED Number Smart IR LED Vester Reaction to Alarm Events Smart IR LED Number Smart IR LED Number Smart IR LED Vester Reaction to Alarm Events LED Number Smart IR LED Number Smart IR LED Number Smart IR LED Number Smart IR LED Number Let Vester Reaction to Alarm Events LED Number Smart IR LED Number Let Vester Reaction to Alarm Events LED Number Let Vester Reaction to Alarm Events LED Number Let Vester Reaction to Alarm Events LED Number Supply Let Vester Reaction to Name Interview Interface (10/100 Mbit/s Interface) LED Number Interface LED Number Supply Let Vester Reaction to Alarm Events LED Number Tool Number Interface (10/100 Mbit/s Interface) LED Number Supply Let Vester Reaction to Alarm Events LED Number Tool	Video Content Analysis (VCA)	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
System Reaction to Alarm Events e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card Reacting 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 Ethernet - RJ-45 interface, 10/100 Mbit/s Memory Card Slot environment  Installation parameters  Dimensions (mm) 110 (9) x 59.8 (H)  Weight 0.4 kg Degree of Protection Performent  Enclosure vandalprof IRCD impact rating aluminium, white Power Supply 12 VDC, PoE (IEEE 802.3af, Class 3) Surge protection TVS 4000 V  Fower Consumption 4 W RIII liminator on)		
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         I x Jack (3.5 mm)/- built-in microphone           Network Interface         1 x Ethernet - RJ-45 interface, 10/100 Mbit/s           Memory Card Stot         microSD - capacity up to 256GB           Installation parameters         U           Dienesions (mm)         110 (9) x 59.8 (H)           Weight         0.4 kg           Degree of Protection         IP6 (détails in the user's manual)           Enclosure         vandalproof IK10 impact rating aluminium, white           Power Supply         12 VDC, Pot (IEEE 802.3af, Class 3)           Surge protection         TVS 4000 V           Power Consumption         6 W (IR illuminator on)		The state of the s
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 256GB           Installation parameters         Using the color of the		
LED Number         2           Range         20 m           Smart IR         yes (software support)           Interfaces           Jay (a) (3.5 mm)/- built-in microphone           Network Interface         1 x Ethernet - R, H-5 interface, 10/100 Mbit/s           Memony Card Stot         microSD - capacity up to 256GB           Installation parameters           Dimensions (mm)         110 (9) x 59.8 (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         1 2 VDC, PoE (IEEE 802.3af, Class 3)           Surge protection         TVS 4000 V           Power Consumption         6 W (IR illuminator on)		via web prowser, using reset button, via NMS IPTool software
Range         20 m           Smart IR         yes (software support)           Interfaces         Ix Jack (3.5 mm)/- built-in microphone           Audio Input/Output         1.x Ischemet - RJ-45 interface, 10/100 Mbit/s           Network Interface         1.x Ethemet - RJ-45 interface, 10/100 Mbit/s           Memory Card Slot         microSD - capacity up to 256GB           Installation parameters         Dimensions (mm)         110 (0) x 59.8 (H)           Weight         0.4 kg           Degree of Protection         IP 66 (detall 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         6 W (IR Illuminator on)		
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Interfaces           Audio Input/Output         1 x Jack (3.5 mm)/- bulli-in microphone           Network Interface         1 x Ethernet - RJ-45 interface, 10/100 Mbit/s           Memory Card Slot         microSD - capacity up to 256GB           Installation parameters         III (Ф) x 59.8 (H)           Weight         0.4 kg           Degree of Protection         IP 66 (details in the user's manual)           Enclosure         vandalproof Kt.0 impact rating aluminium, white           Power Supply         12 VDC, PoE (IEEE 802.34, Class 3)           Surge protection         TV \$4000 V           Power Consumption         6 W (IR illuminator on)		
Audio Input/Output         1 x Jack (3.5 mm)/- bullit in microphone           Network Interface         1 x Ethernet - Rj-45 interface, 10/100 Mbit/s microphone           Memory Card Slot         microSD - capacity up to 256GB           Installation parameters         III (0) x 59.8 (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         12 VDC, PoE (IEEE 802.36, Class 3)           Surge protection         TV \$4000 V           Power Consumption         6 W (IR illuminator on)		yes (software support)
Network Interface         1 x Ethernet - RJ-45 interface, 10/100 Mbit/s           Network Interface         1 x Ethernet - RJ-45 interface, 10/100 Mbit/s           Installation parameters	Interfaces	
Memory Card Slot         microSD - capacity up to 256GB           Installation parameters         Installation parameters           Dimensions (mm)         110 (Φ) x 59.8 (H)           Weight         0.4 kg           Degree of Protection         IP 66 (details in the user's manual)           Enclosure         vandalproof Ikt.0 impact rating aluminium, white           Power Supply         12 VDC, PoE (IEEE 802.34, Class 3)           Surge protection         TVS 4000 V           Power Consumption         6 W (IR illuminator on)		built-in microphone
Dimensions (mm)         110 (Ф) x 59.8 (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         12 VDC, PoE (IEEE 802.3af, Class 3)           Surge protection         TVS 4000 V           Power Consumption         6 W (IR Illuminator on)		
Dimensions (mm)         110 (e) x 59.8 (H)           Weight         0.4 kg           Degree of Protection         IP 66 (details in the user's manual)           Enclosure         vandalproof IR10 impact rating aluminium, white           Power Supply         12 VDC, PoE (IEEE 802.3d, Class 3)           Surge protection         TVS 4000 V           Power Consumption         4 W, 6 W (IR illuminator on)		microsu - capacity up to 256GB
Weight         0.4 kg           Degree of Protection         IP6 66 (details in the user's manual)           Enclosure         vandalproof IK10 impact rating aluminium, white           Power Supply         12 VDC, P0E (IEEE 802.3 sf, Class 3)           Surge protection         TVS 4000 V           Power Consumption         4 W, Illuminator on)		
Enclosure     vandalproof IX10 impact rating aluminium, white       Power Supply     12 VDC, PoE (IEEE 802.3af, Class 3)       Surge protection     TVS 4000 V       Power Consumption     4 W, 6 W (IR illuminator on)		
Power Supply         12 VDC, PoE (IEEE 802.3af, Class 3)           Surge protection         TVS 4000 V           Power Consumption         4 W, 6 W (IR Illuminator on)	Degree of Protection	IP 66 (details in the user's manual)
Surge protection TVS 4000 V  Power Consumption 4 W, 6 W (IR illuminator on)		
Power Consumption 4 W, 6 W (IR illuminator on)	Power Supply	12 VDC, PoE (IEEE 802.3af, Class 3)
Power Consumption 6 W (IR illuminator on)	Surge protection	TVS 4000 V
Operating Temperature $.30^{\circ}\text{C} \sim 60^{\circ}\text{C}$		6 W (IR illuminator on)
	Operating Temperature	-30°C ~ 60°C

Humidity max. 95%, relative (non-condensing)

The camera creates a fully functional face recognition system when used with selected NOVUS IP 6000 series recorders (models with "F" in the name). Video metadata - video analysis function available on cameras with software version newer or equal to 5.1.2(42545).