



# IP Camera with video content analysis based on Deep Learning

NVIP-4V-6511/F-II



6000 VSS IP

## FUNCTIONS



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.

## COMPATIBILITY



## 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



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 ~ 1/1000000 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
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), 2560 x 1440 (QHD), 2304 x 1296, 2592 x 1520, 480 x 240
Frame Rate	30 fps for 2592 x 1520, 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 Connections	max. 10
Bandwidth	50 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP, HTML5, RTMP
Camera Configuration	from Internet Explorer, Chrome, Opera, Safari browser languages: Polish, English, and others
Compatible Software	NOVUS MANAGEMENT SYSTEM VSS, NOVUS MANAGEMENT SYSTEM AC, N Control 6000
Mobile applications	N-VID6 (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, video metadata
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 256GB
Installation parameters	
Dimensions (mm)	110 (Ø) 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	4 W, 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).*