8 MPX IP camera with Deep Learning-based image analysis

NVIP-8H-4231/WL



FUNCTIONS

The camera is dedicated to work with NOVUS 4000 series recorders. Detailed data can be found in the compatibility table available in the DOWNLOADABLE FILES tab.

KEY FEATURES

- 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 based on Deep Learning
- microSD card support
- Min. Illumination: 0.009 lx (0 lx, IR on)
- IR LED, range up to 25 m
- white LED illuminator, range up to 20 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	8 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	3840 (H) x 2160 (V)
Min. Illumination	0.009 lx/F1.6 - 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
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
DORI	
DORI (Detection, Observation, Recognition, Identification)	for f = 2.8mm - D: 74m, O: 30m, R: 15m, I: 7m
Day/Night	
Mode	day/night switching: mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Schedule	yes
Network	
Stream Resolution	3840 x 2160 (4K Ultra HD), 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA)
Frame Rate	15 fps for each resolution
Multistreaming Mode	number of streams: 2 (main stream, sub stream)
Video/Audio Compression	H.264, H.265/G.711
Number of Simultaneous Connections	max. 4
Bitrate	for H.264 : 128 kbps - 6144 kbps for H.265 : 128 kbps - 6144 kbps
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, DHCP, DNS, DDNS, NTP, RTSP, RTP, SMTP, P2P
Camera Configuration	from Edge browser languages: Polish, English, and others
Compatible Software	NOVUS MANAGEMENT SYSTEM VSS
Mobile applications	ipGO 4 (iPhone, Android)
Video Analytics	
Functions	line cross, zone entrance, zone exit, zone violation, intrusion detection, smart motion detection with objects distinguishing
Other functions	
Security	HTTPS support, force change of default password
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Audio Detection	decline detection, rise detection
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 SD card, active deterrent functions
Deterrent	white LEDs, steady/flashing light,
Restoring default settings	via web browser, using reset button
IR LED	
LED Number	1
Range	25 m
Smart IR	yes (hardware support)
White light illuminator	
LED Number	2, warm white color
Range	20 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: 71 (Φ) x 147 (L)
Weight	0.38 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included enclosure type: 4H-B
Power Supply	12 VDC, PoE (IEEE 802.3af, Class 3)

Power Consumption	2 W, 3 W (IR illuminator on), 4 W (white light illuminator on)
Operating Temperature	-35°C ~ 60°C
Humidity	max. 90%, relative (non-condensing)

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