4 MPX IP camera with Deep Learning-based image analysis and active deterrence

NVIP-4H-4231/WLAD

KEY FEATURES

- •Resolution: 4 MPX
- •Lens: fixed focal, f=2.8 mm/F1.0
- •active deterrence
- •D/N function - IR cut filter
- •Video content analysis based on Deep Learning
- •microSD card support
- •two-way audio
- •Min. Illumination: 0.0005 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

COMPLIANCE

DIMENSIONS

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.

IMAGE

Image Sensor	4 MPX CMOS sensor 1/3” SmartSens
Number of Effective Pixels	2560 (H) x 1440 (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
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, f=2.8 mm/F1.0

DORI

DORI (Detection, Observation, Recognition, Identification)	for f = 2.8mm - D: 56m, O: 22.4m, R: 11m, I: 5.6m

DAY/NIGHT

Mode	day/night switching: mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Delay	1 ~ 36 s

NETWORK

Stream Resolution	2560 x 1440 (QHD), 640 x 480 (VGA)
Frame Rate	25 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. 3 connections, (max. 10 streams in total)
Bandwidth	15 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, DHCP, DNS, DDNS, NTP, RTSP, RTP, SMTP, P2P
Camera Configuration	from Internet Explorer browser • languages: Polish, English, and others

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Compatible Software	NOVUS MANAGEMENT SYSTEM VSS, NOVUS MANAGEMENT SYSTEM AC
Mobile applications	ipGO 4 (iPhone, Android)

VIDEO ANALYTICS

Functions	line cross, zone entrance, zone exit, zone violation, objects distinguishing, intrusion detection, smart motion detection with objects distinguishing

OTHER FUNCTIONS

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
Determent	white LEDs, steady/flashing light, red and blue LEDs, flashing light, • audio signaling device (siren)
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/speaker
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	0.36 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)
Surge protection	TVS 4000 V
Power Consumption	1.5 W • 3 W (IR illuminator on) • 5.5 W (white light illuminator on) • 6.5 W (active deterrence functions enabled)
Operating Temperature	-35°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)