# 8 MPX IP camera with Deep Learning-based image analysis

NVIP-8VE-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,<br>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 Level Adjustment | yes |
| 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<br>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<br>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 |
| Determent | 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) | 100 (Φ) x 85 (H) |
| Weight | 0.43 kg |
| Degree of Protection | IP 66 (details in the user's manual) |
| Enclosure | vandalproof, aluminium, white<br>enclosure type: 4VE-S |

85 mm

100 mm (Ø)

| | |
|---|---|
| Power Supply | 12 VDC, PoE (IEEE 802.3af, Class 3) |
| Power Consumption | 2 W,<br>3 W (IR illuminator on),<br>4 W (white light illuminator on) |
| Operating Temperature | -35°C ~ 60°C |
| Humidity | max. 90%, relative (non-condensing) |

*AAT SYSTEMY BEZPIECZEŃSTWA sp. z o.o. hereby declares, that this NOVUS product does not contain any components or technologies manufactured by the entities mentioned in the Section 889 of the National Defense Authorization Act (NDAA) for Fiscal Year 2019. Model with modified housing. The new housing design and some technical data change for cameras with serial numbers starting from: 007914126020200001.*