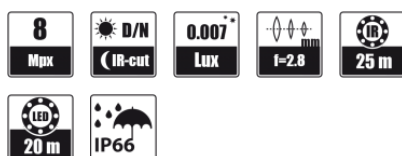


## 8 MPX IP camera with Deep Learning-based image analysis and active deterrence

**NVIP-8VE-4511/FWLAD**



### KEY FEATURES



- Resolution: 8 MPX (4K Ultra HD)
- 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: 0.007 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                             | 8 MPX CMOS sensor 1/2.8" OmniVision                  |
| Number of Effective Pixels               | 3840 (H) x 2160 (V)                                  |
| Min. Illumination                        | 0.007 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: 74.7m, O: 30m, R: 15m, I: 7.5m |
|------------------------------------------------------------|---------------------------------------------------|

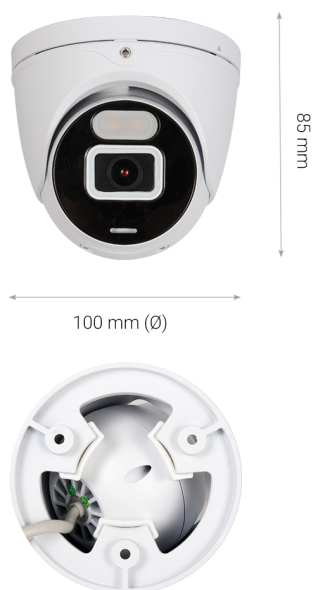
### DAY/NIGHT

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

### NETWORK

|                                    |                                                                                                                                                                                         |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Stream Resolution                  | 3840 x 2160 (4K Ultra HD), 3072 x 1728, 2560 x 1440 (QHD), 2592 x 1520, 2592 x 1944, 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 960, 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA) |
| Frame Rate                         | 20 fps for each resolution                                                                                                                                                              |
| Multistreaming Mode                | number of streams: 3 (main stream, sub stream, third stream)                                                                                                                            |
| Video/Audio Compression            | H.264, H.264+, H.265, H.265+/G.711                                                                                                                                                      |
| Number of Simultaneous Connections | max. 3 connections, (max. 40 streams in total)                                                                                                                                          |
| Bandwidth                          | 30 Mb/s in total                                                                                                                                                                        |
| Network Protocols Support          | HTTP, TCP/IP, IPv4/v6, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SNMP, SMTP, P2P, HTML5                                                                                        |
| ONVIF Protocol Support             | Profile G/S/T/M                                                                                                                                                                         |

## 8 MPX IP camera with Deep Learning-based image analysis and active deterrence NVIP-8VE-4511/FWLAD



|                      |                                                                                     |
|----------------------|-------------------------------------------------------------------------------------|
| Camera Configuration | from Edge, Firefox, Chrome, Safari browser • languages: Polish, English, and others |
| Compatible Software  | NOVUS MANAGEMENT SYSTEM VSS, NOVUS MANAGEMENT SYSTEM AC                             |
| Mobile applications  | ipGO 4 (iPhone, Android)                                                            |

### VIDEO ANALYTICS

|           |                                                                                                                                                                                                                                                                                                                                                      |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Functions | abandoned object, object disappearance, line cross, zone entrance, zone exit, zone violation, multi loiter, face detection, pedestrian detection, cross counting, heat map, queue length detection, objects distinguishing, vehicle detection, intrusion detection, counting objects in the area, smart motion detection with objects distinguishing |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### OTHER FUNCTIONS

|                                 |                                                                                                                                                       |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Privacy Zones                   | 4 video mask type: single color                                                                                                                       |
| Motion Detection                | yes                                                                                                                                                   |
| Region of interest (ROI)        | 8                                                                                                                                                     |
| Audio Detection                 | decline detection, rise detection, rare sound 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 FTP server, saving file on SD card, saving in the cloud storage, push notification, active deterrent functions |
| Determent                       | white LEDs, steady/flashing light, red and blue LEDs, flashing light, • audio signaling device (siren), built-in speaker (custom voice messages)      |
| 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)      | 100 (Φ) x 85 (H)                                      |
| Weight               | 0.43 kg                                               |
| Degree of Protection | IP 66 (details in the user's manual)                  |
| Enclosure            | vandalproof, aluminium, white • enclosure type: 4VE-S |
| Power Supply         | 12 VDC, PoE (IEEE 802.3af, Class 3)                   |
| Surge protection     | TVS 4000 V                                            |



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

### NVIP-8VE-4511/FWLAD

|                       |                                                                                                                    |
|-----------------------|--------------------------------------------------------------------------------------------------------------------|
| Power Consumption     | 2.5 W • 3.8 W (IR illuminator on) • 5.3 W (white light illuminator on) • 7 W (active deterrence functions enabled) |
| Operating Temperature | -35°C ~ 60°C                                                                                                       |
| Humidity              | max. 95%, 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 a modified housing and a changed sensor. The new housing design, sensor, and some technical specifications change for cameras with serial numbers starting from: 096103126012300001.*

