# NOVUS

# Vandal Proof IP Camera with Motor-zoom Lens

NVIP-5VE-4502M



**4000** VSS IP

## FUNCTIONS

INGENIUS PLUS — FACE DETECTION

LPR LICENCE PLATE RECOGNITION — H·265+

5 Mpx — D/N IR-cut — 0.03 Lux — f=2.8~12

IR 45 m

## COMPATIBILITY

NDAA

## KEY FEATURES

- Resolution: 5 MPX
- Lens: motorized, auto-focus function, f=2.8 ~ 12 mm/F1.8
- support for Chrome, Firefox, Opera, Safari browsers
- D/N function - IR cut filter
- Video content analysis based on Deep Learning
- Licence plate recognition (LPR)
- microSD card support
- WDR with double scan sensor
- two-way audio
- Min. Illumination: 0.03 lx (0 lx, IR on)
- IR LED, range up to 45 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

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 | 5 MPX CMOS sensor 1/2.7" SmartSens |
| Number of Effective Pixels | 2880 (H) x 1620 (V) |
| Min. Illumination | 0.03 lx/F1.2 - 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 (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 | motorized, f=2.8 ~ 12 mm/F1.8 |
| Auto-focus | zoom trigger, manual trigger |
| **DORI** | |
| DORI (Detection, Observation, Recognition, Identification) | for f = 2.8mm - D: 56m, O: 22.4m, R: 11m, I: 5.6m for f = 12mm - D: 240m, O: 96m, R: 48m, I: 24m |
| **Day/Night** | |
| Switching Type | mechanical IR cut filter |
| Switching Mode | auto, manual, time |
| Switching Delay | 1 ~ 36 s |
| Visible Light Sensor | yes |
| **Network** | |
| Stream Resolution | 2880 x 1620, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 2048 x 1536 (QXGA), 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA) |
| Frame Rate | 30 fps for each resolution |
| Multistreaming Mode | number of streams: 3 |
| Video/Audio Compression | H.264, H.264+, H.265, H.265+/G.711 |
| Number of Simultaneous Connections | max. 10 |
| Bandwidth | 60 Mb/s in total |
| Network Protocols Support | HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SNMP, SMTP, P2P, HTML5 |
| Camera Configuration | from Internet Explorer, Firefox, Chrome, Opera, Safari browser languages: Polish, English, Russian, and others |
| Compatible Software | NOVUS MANAGEMENT SYSTEM VSS, NOVUS MANAGEMENT SYSTEM AC |
| Mobile applications | RxCamView (iPhone, Android) |
| **Video Analytics** | |
| Functions | abandoned object, object disappearance, line cross, zone entrance, zone exit, multi loiter, face detection, cross counting, heat map, queue length detection, objects distinguishing |
| **Other functions** | |
| Privacy Zones | 4 video mask type: single color |
| Motion Detection | yes |
| Audio Detection | yes |
| 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 |
| Restoring default settings | via web browser, using reset button |
| **Licence plate recognition (LPR)** | |
| Autonomous operation mode | yes - recognition function implemented in the camera |
| Capacity of License Plate Database | up to 10000 license plates, on all lists. |
| Types of recognized number plates | all countries of the European Union |
| Data recorded in the camera base | recognition date/time, number of recognised licence plate, image of recognised licence plate, presence on the "white list" or "black list" |
| Reactions for the licence plate recognition | e-mail with attachment, saving file on FTP server |
| **IR LED** | |
| LED Number | 4 |
| Range | 45 m |
| Smart IR | yes (hardware support) |
| **Interfaces** | |
| Audio Input/Output | 1 x RCA/1 x RCA |
| Network Interface | 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s |
| Memory Card Slot | microSD - capacity up to 256GB |
| **Installation parameters** | |
| Dimensions (mm) | 135 (Φ) x 128 (H) |
| Weight | 0.9 kg |
| Degree of Protection | IP 66 (details in the user's manual) |
| Enclosure | vandalproof, aluminium, white enclosure type: 4VE-B |

135 mm (Ø)

128 mm



| Power Supply | 12 VDC, PoE (IEEE 802.3af, Class 3) |
|---|---|
| Surge protection | TVS 4000 V |
| Power Consumption | 3 W,<br>6 W (IR illuminator on) |
| Operating Temperature | -30°C ~ 55°C |
| Humidity | max. 95%, relative (non-condensing) |

*A memory card is required for the license plate recognition function to work. License plate recognition and face detection functions are available for cameras with firmware V31.35.8.2.3_xxxx and newer.*