# NOVUS

# Bullet IP camera with white light and IR illuminators

NVIP-5H-4511/FWLAD

**4000** VSS IP

## FUNCTIONS

INGENIUS PLUS | FACE DETECTION

LPR LICENCE PLATE RECOGNITION | 24/7 DUO light

ACTIVE DETERRENCE | H·265+

| 5 Mpx | D/N IR-cut | 0.002 Lux | f=2.8 |

| IR 25 m | LED 20 m | IP66 |

## COMPATIBILITY

NDAA

## KEY FEATURES

- Resolution: 5 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
- Licence plate recognition (LPR)
- microSD card support
- WDR with double scan sensor
- two-way audio
- Min. Illumination: 0.002 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

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 | 0.002 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 (double scan sensor) |
| 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 |
| **Day/Night** | |
| Switching Type | mechanical IR cut filter |
| Switching Mode | auto, manual, time |
| Switching Delay | 1 ~ 36 s |
| **Network** | |
| Stream Resolution | 2880 x 1620, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA) |
| Frame Rate | 30 fps for each resolution |
| Multistreaming Mode | 3 streams (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, SMTP, P2P, HTML5 |
| Camera Configuration | from Internet Explorer, Edge, Firefox, Chrome, Safari browser languages: Polish, English, and others |
| Compatible Software | NOVUS MANAGEMENT SYSTEM VSS, NOVUS MANAGEMENT SYSTEM AC |
| Mobile applications | RxCamView (iPhone, Android) |
| **Other functions** | |
| Privacy Zones | 4 video mask type: single color |
| Motion Detection | yes |
| Region of interest (ROI) | 8 |
| Audio Detection | yes |
| Video Content Analysis (VCA) | abandoned object, object disappearance, line cross, zone violation, multi loiter, face detection, cross counting, heat map, queue length detection, objects distinguishing, target counting by area |
| Image Processing | 180° image rotation, corridor mode, 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 |
| **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, saving a file in the cloud |
| **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 66 (details in the user's manual) |
| Enclosure | aluminium, white, fully cable managed wall mount bracket in-set included |

71 mm (Ø)

71 mm (Ø)

150 mm

| Power Supply | 12 VDC, PoE (IEEE 802.3af, Class 3) |
|---|---|
| Surge protection | TVS 4000 V |
| Power Consumption | 2.1 W,<br>3.4 W (IR illuminator on),<br>4.6 W (white light illuminator on),<br>6 W (active deterrence functions enabled) |
| Operating Temperature | -35°C ~ 60°C |
| Humidity | max. 95%, relative (non-condensing) |