# NOVUS

# Vandal Proof IP Camera with Fisheye Lens
## NVIP-12F-8501

8000 VSS IP

## KEY FEATURES

INGENIUS PLUS | FACE DETECTION

H·265 | IK10

NDAA

| 12 Mpx | D/N IR-cut | 0.01 Lux | 360° | f=1.8 mm |

IR 15 m

- Resolution: 12 MPX
- Sensor resolution: 12 MPX
- Lens: fisheye, f=1.8 mm/F2.4
- built-in microphone
- D/N function - IR cut filter
- Video content analysis
- microSD card support
- two-way audio
- Min. Illumination from 0.01 lx (0 lx, IR on)
- IR LED, range up to 15 m

## DIMENSIONS

38 mm

130 mm (Ø)

## IMAGE

| | |
|---|---|
| Image Sensor | 12 MPX CMOS sensor 1/1.7" SONY Exmor R STARVIS |
| Number of Effective Pixels | 4072 (H) x 3046 (V) |
| Min. Illumination | 0.01 lx/F2.4 - color mode • 0 lx (IR on) - B/W mode |
| S/N Ratio | > 55 dB (AGC off) |
| 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 |
| Defog Function (F-DNR) | yes |
| Highlight Compensation (HLC) | yes |
| Back Light Compensation (BLC) | yes |

## LENS

| | |
|---|---|
| Lens Type | fisheye, f=1.8 mm/F2.4 |

## DAY/NIGHT

| | |
|---|---|
| Mode | day/night switching: mechanical IR cut filter |
| Switching Mode | auto, manual, time |
| Switching Level Adjustment | yes |
| Switching Delay | 0 ~ 180 s |

## NETWORK

| | |
|---|---|
| Stream Resolution | 4000 x 3000, 4000 x 2000, 3840 x 2160 (4K Ultra HD), 3000 x 3000, 3000 x 752, 2560 x 2560, 1920 x 1080 (Full HD), 1520 x 1520, 1280 x 960, 720 x 576 (D1), 720 x 720, 960 x 960, 640 x 640 |
| Frame Rate | 25 fps for each resolution |
| Multistreaming Mode | number of streams: 2 |
| Video/Audio Compression | H.264, H.265, MJPEG/G.711, RAW_PCM |
| Number of Simultaneous Connections | max. 10 |
| Bandwidth | 60 Mb/s in total |
| Network Protocols Support | HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, DHCP, DNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, SMTP, RTCP, ICMP, SSL/TLS, HTML5 |
| ONVIF Protocol Support | Profile G/S/T/M |
| Camera Configuration | from Edge, Firefox, Chrome, Opera browser • languages: Polish, English, and others |
| Compatible Software | NOVUS MANAGEMENT SYSTEM VSS |

## VIDEO ANALYTICS

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| Functions | line cross, zone violation, double line cross, loiter, wrong direction, face detection, pedestrian detection, heat map, objects distinguishing, people counting, vehicle detection, smart motion detection with objects distinguishing • image analysis functions are available when single-channel operation mode and the "Fisheye" option are selected in the "Fisheye" menu |
|---|---|

## OTHER FUNCTIONS

| | |
|---|---|
| Security | IEEE 802.1X support, HTTPS support, IP and/or MAC address filtering, force change of default password |
| Privacy Zones | 4 video mask type: single color |
| Motion Detection | yes |
| Region of interest (ROI) | 8 |
| Audio Detection | decline detection, rise detection |
| Image Processing | "fisheye" view, panoramic view, "fisheye" view + 3 PTZ views, 4 PTZ views |
| Prealarm/Postalarm | -/up to 86400 s |
| System Reaction to Alarm Events | e-mail with attachment, saving file on FTP server, saving file on SD card, alarm output activation, playback of the audio message |
| Restoring default settings | via web browser, using reset button |

## IR LED

| | |
|---|---|
| LED Number | 6 |
| Range | 15 m |
| Smart IR | yes (software support) |

## INTERFACES

| | |
|---|---|
| Audio Input/Output | 1 x RCA/1 x RCA, • built-in microphone |
| Alarm Input/Output | 1 (NO/NC)/1 |
| Network Interface | 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s |
| Memory Card Slot | microSD - capacity up to 1000GB |

## INSTALLATION PARAMETERS

| | |
|---|---|
| Dimensions (mm) | 130 (Φ) x 38 (H) |
| Weight | 0.5 kg |
| Degree of Protection | IP 66 (details in the user's manual) |
| Enclosure | vandalproof, IK10 impact rating, aluminium, white • enclosure type: 8F2 |
| Power Supply | 12 VDC, PoE (IEEE 802.3af, Class 3) |
| Power Consumption | 4 W • 10 W (IR illuminator on) |
| Operating Temperature | -30°C ~ 60°C |
| Humidity | max. 90%, relative (non-condensing) |