



# IP Motor-zoom Camera with video content analysis based on Deep Learning

NVIP-8H-6522M/F



6000

VSS  
PROJECT

## FUNCTIONS



H.265  
SMART

IK10



## KEY FEATURES

- Resolution: 8 MPX (4K Ultra HD)
- Lens: motorized, auto-iris and auto-focus function, f=2.8 ~ 12 mm/F1.4
- Human/Vehicle Object Classification
- D/N function - IR cut filter
- Video content analysis based on Deep Learning
- microSD card support
- WDR with double scan sensor
- Min. Illumination: 0.015 lx (0 lx, IR on)
- IR LED, range up to 70 m (depends on current optical zoom value)

## DIMENSIONS



The camera is dedicated to work with NOVUS 6000 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" SONY STARVIS                                                                                                                                                                                                                                                    |
| Number of Effective Pixels               | 3864 (H) x 2192 (V)                                                                                                                                                                                                                                                                      |
| Min. Illumination                        | 0.015 lx/F1.4 - color mode,<br>0 lx (IR on) - B/W mode                                                                                                                                                                                                                                   |
| Electronic Shutter                       | auto/manual: 1/3 s ~ 1/100000 s                                                                                                                                                                                                                                                          |
| Digital Slow Shutter (DSS)               | up to 1/3 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, auto-iris function, f=2.8 ~ 12 mm/F1.4                                                                                                                                                                                                                                        |
| Auto-focus                               | zoom trigger, day/night mode trigger, manual trigger                                                                                                                                                                                                                                     |
| Day/Night                                |                                                                                                                                                                                                                                                                                          |
| Switching Type                           | mechanical IR cut filter                                                                                                                                                                                                                                                                 |
| Switching Mode                           | auto, manual, time                                                                                                                                                                                                                                                                       |
| Switching Level Adjustment               | yes                                                                                                                                                                                                                                                                                      |
| Switching Delay                          | 2 ~ 120 s                                                                                                                                                                                                                                                                                |
| Switching Schedule                       | yes                                                                                                                                                                                                                                                                                      |
| Visible Light Sensor                     | yes                                                                                                                                                                                                                                                                                      |
| Network                                  |                                                                                                                                                                                                                                                                                          |
| Stream Resolution                        | 3840 x 2160 (4K Ultra HD), 3072 x 2048, 2592 x 1520, 2592 x 1944, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA), 480 x 240                                                                                                                                   |
| Frame Rate                               | 20 fps for 3840 x 2160 (UHD),<br>20 fps for 3072 x 2048,<br>30 fps for 2592 x 1944,<br>60 fps for 1920 x 1080 (Full HD) and lower resolutions                                                                                                                                            |
| Multistreaming Mode                      | 3 streams                                                                                                                                                                                                                                                                                |
| Video/Audio Compression                  | H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711                                                                                                                                                                                                                      |
| Number of Simultaneous Connections       | max. 10                                                                                                                                                                                                                                                                                  |
| Bandwidth                                | 60 Mb/s in total                                                                                                                                                                                                                                                                         |
| Network Protocols Support                | HTTP, TCP/IP, IPv4, IPv6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, SNMP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, RTCP, ICMP, Unicast, SSL/TLS                                                                                                                                |
| Camera Configuration                     | from Internet Explorer browser<br>languages: Polish, English, Russian, and others                                                                                                                                                                                                        |
| Compatible Software                      | NOVUS MANAGEMENT SYSTEM VSS, NOVUS MANAGEMENT SYSTEM AC, N Control 6000                                                                                                                                                                                                                  |
| Mobile applications                      | SuperLive Plus (iPhone, Android)                                                                                                                                                                                                                                                         |
| Other functions                          |                                                                                                                                                                                                                                                                                          |
| Privacy Zones                            | 4 video mask type: single color                                                                                                                                                                                                                                                          |
| Motion Detection                         | yes                                                                                                                                                                                                                                                                                      |
| Region of interest (ROI)                 | 8                                                                                                                                                                                                                                                                                        |
| Video Content Analysis (VCA)             | tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, pedestrian detection, cross counting, scene change, video blurred, video color cast, objects distinguishing, people counting, vehicle detection, vehicle counting |
| Image Processing                         | 180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction                                                                                                                                                                |
| Prealarm/Postalarm                       | up to 6 s/up to 120 s                                                                                                                                                                                                                                                                    |
| System Reaction to Alarm Events          | e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card, alarm output activation                                                                                                                                                                               |
| Restoring default settings               | via web browser, using reset button, via NMS IPTool software                                                                                                                                                                                                                             |
| IR LED                                   |                                                                                                                                                                                                                                                                                          |
| LED Number                               | 4                                                                                                                                                                                                                                                                                        |
| Range                                    | up to 70 m (depends on current optical zoom value)                                                                                                                                                                                                                                       |
| Smart IR                                 | yes (software support)                                                                                                                                                                                                                                                                   |
| Interfaces                               |                                                                                                                                                                                                                                                                                          |
| Video Output                             | BNC, 1.0 Vp-p, 75 Ohm                                                                                                                                                                                                                                                                    |
| Audio Input/Output                       | 1 x Jack (3.5 mm)/1 x Jack (3.5 mm)                                                                                                                                                                                                                                                      |
| Alarm Input/Output                       | 1 (NO/NC)/1 relay type (max. 12VDC/300mA)                                                                                                                                                                                                                                                |
| 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: 101 (W) x 89 (H) x 280 (L)                                                                                                                                                                                                                                                 |
| Weight                                   | 1.1 kg                                                                                                                                                                                                                                                                                   |
| Degree of Protection                     | IP 67 (details in the user's manual)                                                                                                                                                                                                                                                     |
| Enclosure                                | aluminium, white, fully cable managed wall mount bracket in-set included , IK10 impact rating                                                                                                                                                                                            |
| Power Supply                             | 12 VDC, PoE (IEEE 802.3af, Class 3)                                                                                                                                                                                                                                                      |

|                       |                                     |
|-----------------------|-------------------------------------|
| Surge protection      | TVS 4000 V                          |
| Power Consumption     | 8 W,<br>14 W (IR illuminator on)    |
| Operating Temperature | -30°C ~ 60°C                        |
| Humidity              | max. 95%, relative (non-condensing) |

*The camera creates a fully functional face recognition system when used with selected NOVUS IP 6000 series recorders (models with "F" in the name).*