



# High-Speed Dome IP Camera with Face Recognition, License Plate Recognition and Object Tracking

NVIP-5SD-4550/33/F



## FUNCTIONS



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.

## COMPLIANCE

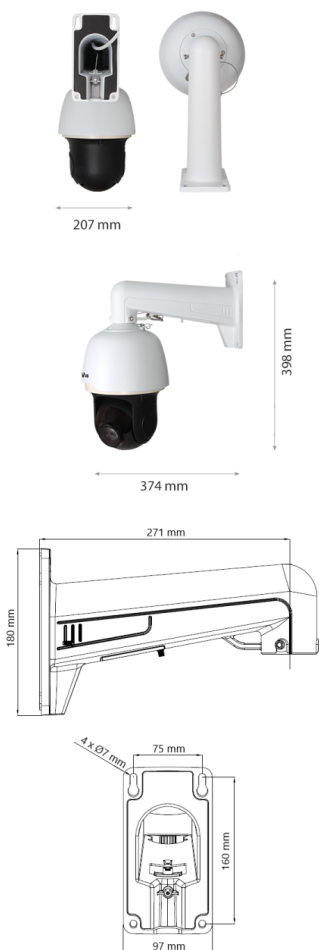


## KEY FEATURES

- Resolution: 5 MPX
- Lens: motorized varifocal, AI and AF function, optical zoom 33x, f=4.3 ~ 142 mm/F1.6 ~ 4.3
- D/N function - IR cut filter
- Auto Tracking
- Video content analysis based on Deep Learning
- Licence plate recognition (LPR)
- microSD card support
- WDR with double scan sensor
- two-way audio
- Min. Illumination from 0.003 lx (0 lx, IR on)
- IR LED, range up to 150 m (depends on current optical zoom value)

## DIMENSIONS

| Image  |   |
|--|---|
| Image Sensor   | 5 MPX CMOS sensor 1/2.7" OmniVision   |
| Number of Effective Pixels                                 | 2688 (H) x 1944 (V)   |
| Min. Illumination  | 0.003 lx/F1.6 - color mode,<br>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  |
| Highlight Compensation (HLC)                               | yes   |
| Back Light Compensation (BLC)                              | yes   |
| Digital zoom   | 16x   |
| Lens   |   |
| Optical Zoom   | 33x   |
| Lens Type  | motorized, auto-iris function, f=4.3 ~ 142 mm/F1.6 ~ F4.3   |
| Auto-focus   | zoom trigger, day/night mode trigger, manual trigger  |
| DORI   |   |
| DORI (Detection, Observation, Recognition, Identification) | for f = 4.3mm - D: 86m, O: 34.4m, R: 17m, I: 8.6m<br>for f = 142mm - D: 2840m, O: 1136m, R: 568m, I: 284m   |
| Day/Night  |   |
| Mode   | day/night switching: mechanical IR cut filter   |
| Switching Mode   | auto, manual, time  |
| Switching Level Adjustment                                 | yes   |
| Visible Light Sensor                                       | yes   |
| Network  |   |
| Stream Resolution  | 2592 x 1520, 2592 x 1944, 2304 x 1296, 1920 x 1080 (Full HD), 2048 x 1536 (QXGA), 1280 x 960, 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 (main stream, sub stream, third stream)  |
| Video/Audio Compression                                    | H.264, H.264+, H.265, H.265+, MJPEG/G.711   |
| Number of Simultaneous Connections                         | max. 3 connections, (max. 14 streams in total)  |
| Bandwidth  | 40 Mb/s in total  |
| Network Protocols Support                                  | HTTP, TCP/IP, IPv4/IPv6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, PPPoE, SMTP, HTML5, RTMP  |
| ONVIF Protocol Support                                     | Profile G/S/T/M   |
| Camera Configuration                                       | from Edge, Firefox, Chrome, Opera browser<br>languages: Polish, English, and others   |
| Compatible Software  | NOVUS MANAGEMENT SYSTEM VSS, NOVUS MANAGEMENT SYSTEM AC, N Control 4000   |
| Mobile applications  | RxCamView (iPhone, Android)   |
| PTZ  |   |
| Preset Commands  | 255   |
| Tours  | 4 (up to 32 presets per tour)   |
| Patterns   | 4 (max. 512 commands for each pattern)  |
| Tilt/Pan Range   | -10° ~ 90°/360° (continuous)  |
| Pan/Tilt Speed   | up to 200°/s (proportional to zoom)   |
| Preset Speed   | up to 200°/s  |
| Video Analytics  |   |
| Functions  | auto tracking linked to Video Content Analysis (VCA) functions, tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, zone violation, multi loiter, pedestrian detection, cross counting, heat map, queue length detection, objects distinguishing, vehicle detection, comparing faces, intrusion detection, smart motion detection with objects distinguishing |
| Other functions  |   |
| Security   | video encryption, IEEE 802.1X support, HTTPS support, MAC/IP address filtering, force change of default password  |
| Privacy Zones  | 6 video mask type: single color   |
| Motion Detection   | yes   |
| Audio Detection  | yes   |
| Image Processing   | 180° image rotation, sharpening, mirror effect  |
| Prealarm/Postalarm   | up to 6 s/up to 30 s  |
| System Reaction to Alarm Events                            | e-mail with attachment, saving file on FTP server, saving file on SD card, alarm output activation, HTTP notification, object tracking  |
| 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   |
| Barrier control                             | yes - built-in relay output   |
| Recommended maximum speed of the vehicle    | up to 60 km/h   |
| Data recorded in the camera base            | number of recognised licence plate  |
| Reactions for the licence plate recognition | e-mail with attachment, saving file on FTP server, alarm output activation  |
| <b>IR LED</b>                               |   |
| LED Number                                  | 10  |
| Range                                       | up to 150 m (depends on current optical zoom value)   |
| Smart IR                                    | yes (hardware support)  |
| <b>Interfaces</b>                           |   |
| Video Output                                | BNC, 1.0 Vp-p, 75 Ohm   |
| Audio Input/Output                          | 1/1   |
| 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  |
| <b>Installation parameters</b>              |   |
| Dimensions (mm)                             | 207 (Ø) x 329 (H) with bracket: 207 (W) x 398 (H) x 374 (L)   |
| Weight                                      | 3.7 kg with bracket: 4.7 kg   |
| Degree of Protection                        | IP 66 (details in the user's manual)  |
| Enclosure                                   | aluminium, white, In set: outdoor housing (integrated with the camera), wall mount bracket<br>Enclosure type: 4SD |
| Power Supply                                | 12 VDC, PoE+ (IEEE 802.3at, Klasa 4)  |
| Power Consumption                           | 14 W,<br>25 W (IR illuminator on)   |
| Operating Temperature                       | -30°C ~ 60°C  |
| Cold start temperature                      | -35°C   |
| Humidity                                    | max. 90%, relative (non-condensing)   |

The camera has the ability to autonomously recognize and compare faces, but it can also be part of the face recognition system, working with selected NOVUS 4000 series IP recorders (models with "F" in the name).