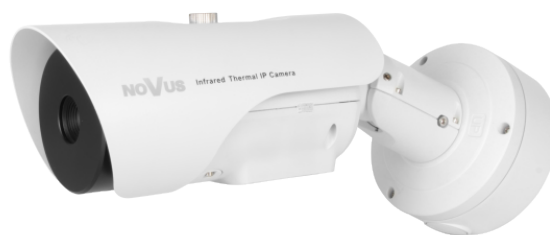




# Thermal IP Bullet Camera

NVIP-H-8515/T



8000

VSS  
PROJECT

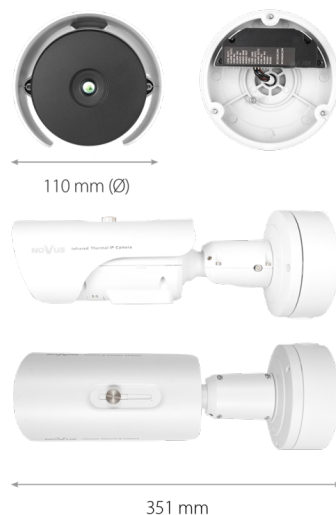
## FUNCTIONS



## KEY FEATURES

- lens: thermal fixed focal length, f=15 mm/F1.0
- built-in microphone
- Video content analysis based on Deep Learning
- SD card support
- Temperature Measurement
- Temperature Alarm
- Ability to observe in total darkness
- two-way audio

## DIMENSIONS



| Image - Thermal Module                       |                                                                                                                                                                                                                                       |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor                                 | Uncooled FPA Microbolometer                                                                                                                                                                                                           |
| Number of Effective Pixels                   | 384 (H) x 288 (V)                                                                                                                                                                                                                     |
| Pixel Size                                   | 17 µm                                                                                                                                                                                                                                 |
| Spectral Range                               | 8 - 14 µm                                                                                                                                                                                                                             |
| Thermal Sensitivity                          | 40 mK                                                                                                                                                                                                                                 |
| Thermovision Modes                           | White Hot, Black Hot, Rainbow, Ironbow, HSV, Autumn, Bone, Cool, Copper, Fire Hot, Pink, Spring, Summer, Winter, Jet, Flame, Rosebengal                                                                                               |
| Detection Temperature Range                  | -20°C ~ 150°C                                                                                                                                                                                                                         |
| Digital Noise Reduction (DNR)                | 2D, 3D                                                                                                                                                                                                                                |
| Lens - Thermal Module                        |                                                                                                                                                                                                                                       |
| Lens Type                                    | fixed focal length, f=15 mm/F1.0                                                                                                                                                                                                      |
| DRI (Detection, Recognition, Identification) | people: D - 441m, R - 110m, I - 55m<br>vehicles: D - 1353m, R - 338m, I - 169m                                                                                                                                                        |
| Object Detection Range                       | 88m - fire (for object size 0.2x0.2 m)                                                                                                                                                                                                |
| Temperature measurement range                | 35m (for object size 0.2x0.2 m)                                                                                                                                                                                                       |
| Image                                        |                                                                                                                                                                                                                                       |
| Defog Function (F-DNR)                       | yes                                                                                                                                                                                                                                   |
| Network                                      |                                                                                                                                                                                                                                       |
| Stream Resolution                            | 1280 x 720 (HD), 704 x 576, 352 x 240, 384 x 288                                                                                                                                                                                      |
| Frame Rate                                   | 30 fps for each resolution                                                                                                                                                                                                            |
| Multistreaming Mode                          | number of streams: 2 (main stream, sub stream)                                                                                                                                                                                        |
| Video/Audio Compression                      | H.264, H.265, MJPEG/G.711, RAW_PCM                                                                                                                                                                                                    |
| Number of Simultaneous Connections           | max. 10                                                                                                                                                                                                                               |
| Bitrate                                      | for H.264 : 100 kbps - 8000 kbps<br>for H.265 : 100 kbps - 8000 kbps                                                                                                                                                                  |
| Network Protocols Support                    | HTTP, TCP/IP, IPv4/IPv6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP, ICMP, HTML5, HTTP POST                                                                         |
| Communication protocols support              | MODBUS                                                                                                                                                                                                                                |
| Camera Configuration                         | from Edge, Firefox, Chrome, Opera browser<br>languages: Polish, English, and others                                                                                                                                                   |
| Compatible Software                          | NOVUS MANAGEMENT SYSTEM VSS, N Control 8000                                                                                                                                                                                           |
| Video Analytics                              |                                                                                                                                                                                                                                       |
| Functions                                    | line cross, zone entrance, zone exit, zone violation, double line cross, multi loiter, wrong direction, objects distinguishing, people counting, smoker detection, fire detection, smart motion detection with objects distinguishing |
| Other functions                              |                                                                                                                                                                                                                                       |
| Temperature Measurement                      | yes                                                                                                                                                                                                                                   |
| Temperature Alarm                            | yes                                                                                                                                                                                                                                   |
| Temperature Measurement Zones                | 20 polygon, line, point                                                                                                                                                                                                               |
| Temperature Measurement Accuracy             | +2°C / +2%                                                                                                                                                                                                                            |
| Security                                     | IEEE 802.1X support, HTTPS support, MAC/IP 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                              | yes                                                                                                                                                                                                                                   |
| Image Processing                             | vertical flip, horizontal flip                                                                                                                                                                                                        |
| 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                                                                                                     |
| Determent                                    | built-in speaker (predefined or custom voice messages)                                                                                                                                                                                |
| Restoring default settings                   | using reset button                                                                                                                                                                                                                    |
| Interfaces                                   |                                                                                                                                                                                                                                       |
| Video Output                                 | CVBS, 1.0 Vp-p, 75 Ohm                                                                                                                                                                                                                |
| Audio Input/Output                           | 1/1<br>built-in microphone/speaker                                                                                                                                                                                                    |
| Alarm Input/Output                           | 2 (NO/NC)/2 relay type (max. 12VDC/300mA)                                                                                                                                                                                             |
| Control Input/Output                         | RS-485                                                                                                                                                                                                                                |
| Network Interface                            | 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s                                                                                                                                                                                         |
| Memory Card Slot                             | SD - capacity up to 1000GB                                                                                                                                                                                                            |
| Installation parameters                      |                                                                                                                                                                                                                                       |
| Dimensions (mm)                              | with bracket: 110 (Ø) x 351 (L)                                                                                                                                                                                                       |
| Weight                                       | 1.9 kg                                                                                                                                                                                                                                |
| Degree of Protection                         | IP 66 (details in the user's manual)                                                                                                                                                                                                  |
| Enclosure                                    | aluminium, white, fully cable managed wall mount bracket in-set included<br>enclosure type: 4H-B                                                                                                                                      |
| Power Supply                                 | 12 VDC, 24 VAC, PoE (IEEE 802.3af, Klasa 3)                                                                                                                                                                                           |
| Power Consumption                            | 4.5 W                                                                                                                                                                                                                                 |
| Operating Temperature                        | -40°C ~ 60°C                                                                                                                                                                                                                          |
| Humidity                                     | max. 90%, relative (non-condensing)                                                                                                                                                                                                   |