



# Dual PTZ IP Camera (Thermal/Visual)

NVIP-2DPT-8731/30/T



8000

VSS  
PROJECT

## FUNCTIONS



## COMPLIANCE

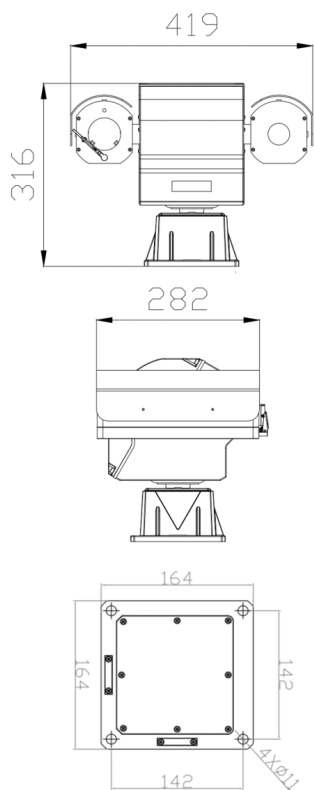


## KEY FEATURES

- Resolution: 4 MPX
- Lens: motorized varifocal, AI and AF function, optical zoom 30x, f=5.3 ~ 159 mm/F1.6 ~ 4.3
- lens: thermal fixed focal length, f=35 mm/F1.0
- D/N function - IR cut filter
- Video content analysis based on Deep Learning
- WDR with double scan sensor
- Temperature Measurment - Thermal Module
- Ability to observe in total darkness - Thermal Module
- two-way audio
- Min. Illumination from 0.001 lx

## DIMENSIONS

| Image - Thermal Module             |                                                                                                                                                                                                                                       |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor                       | Uncooled FPA Microbolometer                                                                                                                                                                                                           |
| Number of Effective Pixels         | 400 (H) x 300 (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              | -20°C ~ 150°C                                                                                                                                                                                                                         |
| Digital Noise Reduction (DNR)      | 2D, 3D                                                                                                                                                                                                                                |
| Lens - Thermal Module              |                                                                                                                                                                                                                                       |
| Lens Type                          | fixed focal length, f=35 mm/F1.0, with manual focus                                                                                                                                                                                   |
| Object Detection Range             | 1029m - human , 3137m - vehicle , 1029m - fire                                                                                                                                                                                        |
| Object Recognition Range           | 257m - human , 789m - vehicle                                                                                                                                                                                                         |
| Image                              |                                                                                                                                                                                                                                       |
| Image Sensor                       | 4 MPX CMOS sensor 1/2.8" SONY                                                                                                                                                                                                         |
| Number of Effective Pixels         | 2592 (H) x 1520 (V)                                                                                                                                                                                                                   |
| Min. Illumination                  | 0.01 lx/F1.2 - color mode,<br>0.001 lx/F1.2 - B/W mode                                                                                                                                                                                |
| Electronic Shutter                 | auto: 1/5 s ~ 1/20000 s                                                                                                                                                                                                               |
| Digital Slow Shutter (DSS)         | up to 1/5 s                                                                                                                                                                                                                           |
| Wide Dynamic Range (WDR)           | yes (double scan sensor)                                                                                                                                                                                                              |
| Digital Image Stabilization (DIS)  | yes                                                                                                                                                                                                                                   |
| Digital Noise Reduction (DNR)      | 3D                                                                                                                                                                                                                                    |
| Defog Function (F-DNR)             | yes                                                                                                                                                                                                                                   |
| Highlight Compensation (HLC)       | yes                                                                                                                                                                                                                                   |
| Back Light Compensation (BLC)      | yes                                                                                                                                                                                                                                   |
| Lens                               |                                                                                                                                                                                                                                       |
| Optical Zoom                       | 30x                                                                                                                                                                                                                                   |
| Lens Type                          | motorized, auto-iris function, f=5.3 ~ 159 mm/F1.6 ~ F4.3                                                                                                                                                                             |
| Auto-focus                         | zoom trigger, manual trigger                                                                                                                                                                                                          |
| Day/Night                          |                                                                                                                                                                                                                                       |
| Switching Type                     | mechanical IR cut filter                                                                                                                                                                                                              |
| Switching Mode                     | auto, time                                                                                                                                                                                                                            |
| Switching Level Adjustment         | yes                                                                                                                                                                                                                                   |
| Switching Delay                    | 0 ~ 180 s                                                                                                                                                                                                                             |
| Network                            |                                                                                                                                                                                                                                       |
| Stream Resolution                  | 2560 x 1440 (QHD), 2592 x 1520, 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 720 x 576 (D1), 640 x 480 (VGA), 352 x 288 (CIF), 320 x 240 (QVGA)<br>for thermal module: 704 x 576, 352 x 240                                   |
| 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.265, MJPEG/G.711, RAW_PCM                                                                                                                                                                                                    |
| Number of Simultaneous Connections | max. 10                                                                                                                                                                                                                               |
| Network Protocols Support          | HTTP, TCP/IP, IPv4/v6, UDP, DHCP, DNS, RTSP, RTP, IEEE 802.1X, PPPoE, SMTP, RTCP, HTML5                                                                                                                                               |
| Camera Configuration               | from Edge, Firefox, Chrome browser<br>languages: Polish, English, and others                                                                                                                                                          |
| Compatible Software                | NOVUS MANAGEMENT SYSTEM VSS                                                                                                                                                                                                           |
| PTZ                                |                                                                                                                                                                                                                                       |
| Preset Commands                    | 400                                                                                                                                                                                                                                   |
| Tours                              | 12 (up to 32 presets per tour)                                                                                                                                                                                                        |
| Auto-Scans                         | 8                                                                                                                                                                                                                                     |
| Patterns                           | 6                                                                                                                                                                                                                                     |
| Tilt/Pan Range                     | -90° ~ 90°/360° (continuous)                                                                                                                                                                                                          |
| Pan/Tilt Speed                     | up to 60°/s (proportional to zoom)                                                                                                                                                                                                    |
| Preset Speed                       | up to 60°/s                                                                                                                                                                                                                           |
| Video Analytics                    |                                                                                                                                                                                                                                       |
| Functions                          | line cross, zone entrance, zone exit, double line cross, loiter, wrong direction, objects distinguishing, people counting<br>for thermal module: line cross, line cross detection and object tracking, zone entrance, object counting |
| Other functions                    |                                                                                                                                                                                                                                       |
| Temperature Measurement            | yes - for thermal module                                                                                                                                                                                                              |
| Temperature Alarm                  | yes - for thermal module                                                                                                                                                                                                              |
| Temperature Measurement Zones      | 20 - for thermal module polygon, line, point                                                                                                                                                                                          |
| Temperature Measurement Accuracy   | + 2°C / + 2%                                                                                                                                                                                                                          |
| Privacy Zones                      | 4 video mask type: single color                                                                                                                                                                                                       |
| Motion Detection                   | yes                                                                                                                                                                                                                                   |
| Region of interest (ROI)           | 8                                                                                                                                                                                                                                     |
| Audio Detection                    | yes                                                                                                                                                                                                                                   |
| Image Processing                   | Defective Pixel Correction (DPC), mirror effect, vertical flip, horizontal flip                                                                                                                                                       |
| System Reaction to Alarm Events    | e-mail with attachment, saving file on FTP server, alarm output activation, playback of the audio message                                                                                                                             |
| Restoring default settings         | via web browser                                                                                                                                                                                                                       |
| Interfaces                         |                                                                                                                                                                                                                                       |
| Video Output                       | BNC, 1.0 Vp-p, 75 Ohm                                                                                                                                                                                                                 |



|                                |                                                                         |
|--------------------------------|-------------------------------------------------------------------------|
| Audio Input/Output             | 2 x Jack (3.5 mm)/2 x Jack (3.5 mm)                                     |
| Alarm Input/Output             | 9 (NO/NC)/4                                                             |
| Network Interface              | 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s                           |
| <b>Installation parameters</b> |                                                                         |
| Dimensions (mm)                | with bracket: 419 (W) x 316 (H) x 282 (L)<br>4 m long connection cables |
| Weight                         | 16.5 kg                                                                 |
| Degree of Protection           | IP 66 (details in the user's manual)                                    |
| Enclosure                      | aluminium, white,<br>Enclosure type: 8S                                 |
| Power Supply                   | 36 VDC<br>(power supply included)                                       |
| Power Consumption              | 80 W                                                                    |
| Operating Temperature          | -40°C ~ 60°C                                                            |
| Humidity                       | max. 90%, relative (non-condensing)                                     |
| Built-in Heater/Fan            | yes/yes                                                                 |