

Code: DH-PTZ12230F-IRB-N

# IP SPEED DOME CAMERA OUTDOOR **DH-PTZ12230F-IRB-N** - 1080p 6 ... 180 mm DAHUA

Net: 2 650.73 EUR Gross: 2 650.73 EUR



## Intelligent 3D Positioning System.

The biggest advantage of the camera is the lens with x30 optical zoom, which together with long range IR illuminator allow to 24 hours surveillance without any additional lighting even at area of several hundred meters. Due to above it is perfect solution for surveillance systems requiring persons or vehicles recognition. The range of IR illumination according to the manufacturer data, depends on outer conditions (visibility - air transparency, environment, wall colors ie. scene reflectance).

For a few models of IP cameras working at  $\geq 1920 \times 1080$  resolution we recommend to use of network with 1Gb/s bandwidth.

## SPECIFICATION

|                                  |                                                                           |
|----------------------------------|---------------------------------------------------------------------------|
| Standard:                        | TCP/IP                                                                    |
| Sensor:                          | 1/1.9 " Progressive Scan Exmor CMOS                                       |
| Resolution:                      | 1920 x 1080                                                               |
| Matrix size:                     | 2.0 Mpx                                                                   |
| Resolution:                      | 1920 x 1080 - 1080p<br>1280 x 720 - 720p                                  |
| Scanning system:                 | Progressive                                                               |
| Lens:                            | 6 ... 180 mm                                                              |
| View angle:                      | 61.2 ° ... 2.1 ° (manufacturer data)<br>59 ° ... 3.2 ° (our tests result) |
| Optical zoom:                    | x 30                                                                      |
| Digital zoom:                    | x 16                                                                      |
| Range of IR illumination:        | 300 m                                                                     |
| S/N ratio:                       | > 55 dB (AGC off)                                                         |
| Video output:                    | 1 Vpp / 75 $\Omega$                                                       |
| Preset rotation speed:           | max. 160 °/s                                                              |
| Rotation speed (manual control): | 0.1 °/s ... 160 °/s (horizontal)<br>0.1 °/s ... 60 °/s (vertical)         |

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| Horizontal rotation range:    | 360 ° continuous                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Vertical rotation range:      | -90 ° ... 45 °                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| RS-485 interface:             | ✓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Protocols:                    | Pelco-D, Pelco-P, DH-SD Auto detection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Number of presets:            | 300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Horizontal scan:              | ✓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Route settings:               | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Image compression method:     | H.264 / MPEG-4 / MJPEG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Bitrate:                      | 56 ... 8192 kbps - H.264<br>56 ... 20480 kbps - MJPEG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Alarm inputs / outputs:       | 7 / 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Audio:                        | <ul style="list-style-type: none"> <li>• 1 Audio input</li> <li>• 1 Audio output</li> <li>• Audio detection</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Main stream frame rate:       | 1 ... 25 fps - 1080p<br>1 ... 50 fps - 720p                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Network interface:            | 10/100 Base-T (RJ-45)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Network protocols:            | IPv4/ IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| WEB Server:                   | Built-in, NVR compliance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Max. number of on-line users: | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| ONVIF:                        | 2.41 - Profile S, G, ONVIF CGI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Mobile phones support:        | Port 37777<br><ul style="list-style-type: none"> <li>• Android: Free application <a href="#">DMSS</a></li> <li>• iOS (iPhone): Free application <a href="#">DMSS</a></li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Memory card slot:             | Micro SD memory cards up to 64GB support (possible local recording)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Main features:                | <ul style="list-style-type: none"> <li>• Intelligent 3D Positioning System</li> <li>• ICR - Movable InfraRed filter</li> <li>• Day/Night mode (color/b&amp;w/auto)</li> <li>• WB - White Balance (ATW/AWB/manual/indoor/outdoor)</li> <li>• WDR - Wide Dynamic Range</li> <li>• F-DNR (Defog) - Reduction of image noise caused by precipitation</li> <li>• 3D-DNR - Digital Noise Reduction</li> <li>• Configurable Privacy Zones - 24</li> <li>• BLC/HLC - Back Light / High Light Compensation</li> <li>• Audio detection</li> <li>• Sharpness - sharper image outlines</li> <li>• Mirror - Mirror image</li> <li>• IVS analysis - objects tracking</li> <li>• Multicast - Unlimited number of clients</li> <li>• The device has a built-in heater</li> <li>• Wiper - Control the wiper via TCP/IP</li> </ul> |
| Power supply:                 | • 24 V AC / 5 A (power adapter included)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Housing:                      | Metal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Color:                        | White / Black                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Operation temp:               | -40 °C ... 70 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| "Index of Protection":        | IP66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Weight:                       | 10.43 kg (with bracket)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Dimensions:                   | 200 x 391 mm x 473 mm (with bracket)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Supported languages:          | English                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Manufacturer / Brand:         | DAHUA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |



|            |         |
|------------|---------|
| Guarantee: | 3 years |
|------------|---------|

## PRESENTATION

Front view:



Side view:



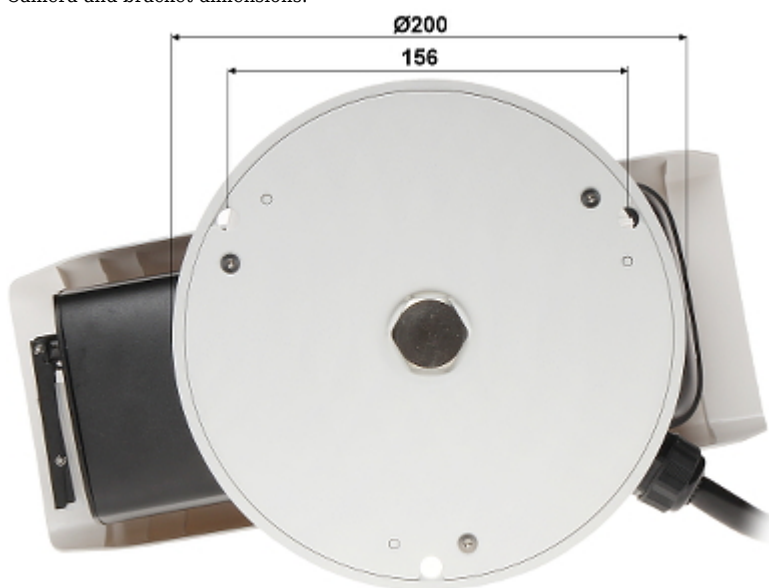
Internal view:



Memory card slot:



Camera and bracket dimensions:







In the kit:



## OUR TESTS

Camera image at artificial illumination (about 30Lux):

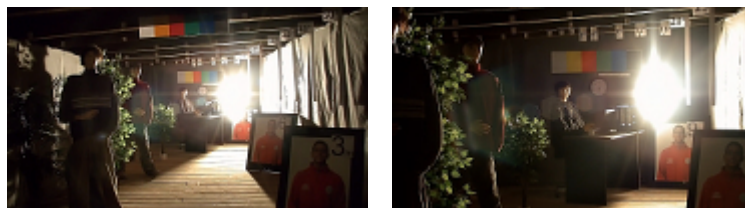


Camera image at night conditions with internal built-in IR illuminator on:



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Camera image at direct strong light opposite to camera:



Record from camera during daylight operation:

:

## OUR OPINIONS



- Thanks to the "Starlight" technology used, the camera only needs very low lighting to obtain a clear color image.

## PACKAGE

|                                  |                    |
|----------------------------------|--------------------|
| Dimensions (L x W x H): 0x0x0 mm | Gross Weight: 0 kg |
|----------------------------------|--------------------|



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