

Code: IPC-HUM4231-0280B

## IP CAMERA **IPC-HUM4231-0280B** - 1080p 2.8 mm DAHUA

Net: **193.11 EUR** Gross: **193.11 EUR**

Indoor micro camera equipped with very good quality CMOS sensor.  
Camera is equipped with PINHOLE type lens, needs only a very small hole to get right field of view.



### SPECIFICATION

|                         |                                                                                                                                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standard:               | TCP/IP                                                                                                                                                                        |
| Sensor:                 | 1/2.7 " Progressive Scan CMOS                                                                                                                                                 |
| Matrix size:            | 2.1 Mpx                                                                                                                                                                       |
| Resolution:             | 1920 x 1080 - 1080p ,<br>1280 x 960 - 1.3 Mpx<br>1280 x 720 - 720p                                                                                                            |
| Lens:                   | 2.8 mm (pinhole)                                                                                                                                                              |
| View angle:             | <ul style="list-style-type: none"><li>• 105 ° (manufacturer data)</li><li>• 103 ° (our tests result)</li></ul>                                                                |
| Min. illumination:      | <ul style="list-style-type: none"><li>• 0.04 Lux / F2.4 (color)</li><li>• 0.02 Lux F2.4 (B/W)</li></ul>                                                                       |
| S/N ratio:              | > 50 dB                                                                                                                                                                       |
| Audio:                  | <ul style="list-style-type: none"><li>• External microphone input</li><li>• Audio output</li><li>• Bi-directional audio streaming support</li><li>• Audio detection</li></ul> |
| RS-485 interface:       | —                                                                                                                                                                             |
| RS-232 interface:       | —                                                                                                                                                                             |
| Bitrate:                | 12 ... 6400 kbps - H.265<br>32 ... 8192 kbps H.264                                                                                                                            |
| Main stream frame rate: | 25 fps @ 1080p                                                                                                                                                                |

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network protocols:             | HTTP, HTTPS, TCP, ARP, RTSP, RTP, RTCP, UDP, SMTP, FTP, DHCP, DNS, DDNS, PPPoE, IPv4/IPv6, QoS, UPnP, NTP, Bonjour, IEEE 802.1x, Multicast, ICMP, IGMP, TLS                                                                                                                                                                                                                                                                                                                                                               |
| ONVIF:                         | 16.12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Image compression method:      | H.265 / H.265+ / H.264 / H.264+ / MJPEG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Network interface:             | 10/100 Base-T (RJ-45)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Alarm inputs / outputs:        | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Mobile phones support:         | Port no.: 37777 or access by a cloud (P2P)<br>• Android: Free application <a href="#">DMSS</a><br>• iOS (iPhone): Free application <a href="#">DMSS</a>                                                                                                                                                                                                                                                                                                                                                                   |
| Default admin user / password: | admin / -<br>The administrator password should be set at the first start                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Default IP address:            | 192.168.1.108                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Web browser access ports:      | 80, 37777                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| PC client access ports:        | 37777                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Mobile client access ports:    | 37777                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Port ONVIF:                    | 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| RTSP URL:                      | rtsp://admin:haslo@192.168.1.108:554/cam/realmonitor?channel=1&subtype=0 - Main stream<br>rtsp://admin:haslo@192.168.1.108:554/cam/realmonitor?channel=1&subtype=1 - Sub stream                                                                                                                                                                                                                                                                                                                                           |
| Memory card slot:              | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Main features:                 | <ul style="list-style-type: none"> <li>• WDR - 120 dB - Wide Dynamic Range</li> <li>• 3D-DNR - Digital Noise Reduction</li> <li>• ROI - improve the quality of selected parts of image</li> <li>• BLC - Back Light Compensation</li> <li>• HLC - High Light Compensation (spot)</li> <li>• Configurable Privacy Zones</li> <li>• Motion Detection</li> <li>• Mirror - Mirror image</li> <li>• IVS analysis - crossing the line (tripwire), intrusion, abandoned/missing object, scene changing, face detection</li> </ul> |
| Power supply:                  | 12 V DC / 125 mA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Power consumption:             | < 1.5 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Housing:                       | Mini - Metal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Color:                         | Black                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Operation temp:                | -30 °C ... 60 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Weight:                        | 0.1 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Dimensions:                    | 45 x 35 x 49 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Supported languages:           | Polish, English, Czech                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Manufacturer / Brand:          | DAHUA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Guarantee:                     | <b>3 years</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## PRESENTATION

Camera is very small:



DELTA-OPTI Monika Matysiak; <https://www.delta.poznan.pl>  
POL; 60-713 Poznań; Graniczna 10  
e-mail: [delta-opti@delta.poznan.pl](mailto:delta-opti@delta.poznan.pl); tel: +(48) 61 864 69 60



Side view:



Rear view:



Camera connectors:



See how to initialize DAHUA cameras:

:

In the kit:



## OUR TESTS

DELTA-OPTI Monika Matysiak; <https://www.delta.poznan.pl>  
 POL; 60-713 Poznań; Graniczna 10  
 e-mail: [delta-opti@delta.poznan.pl](mailto:delta-opti@delta.poznan.pl); tel: +(48) 61 864 69 60

Camera image at artificial illumination (about 30Lux):



Camera image at direct strong light opposite to camera:



Camera image at night conditions, at different illumination values show below:

10 LUX:



1 LUX:



0.1 LUX:



## PACKAGE

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