

Code: DH-IPC-HDW4431EMP-

## IP CAMERA **DH-IPC-HDW4431EMP-** - 4.0 Mpx 3.6 mm DAHUA

IP camera with efficient H.264 / H.265 image compression algorithm for clear and smooth video streaming at maximal resolution of 2688 x 1520 (4.0 MPx).

PoE powering possibility, compatible with the 802.3af standard makes the device more universal and easier to install.

The device is equipped with ePoE technology which enables transmission up to 800 m at a speed of 10 Mb/s or 300 m at a speed of 100 Mb/s via cat. 5e twisted-pair.



|                           |                                                                                                                                                                      |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standard:                 | TCP/IP                                                                                                                                                               |
| Sensor:                   | 1/3 " Progressive Scan CMOS                                                                                                                                          |
| Scanning system:          | Progressive                                                                                                                                                          |
| Matrix size:              | 4.0 Mpx                                                                                                                                                              |
| Resolution:               | 2688 x 1520 - 4.0 Mpx<br>2560 x 1440 - 3.6 Mpx<br>2304 x 1296 - 3.0 Mpx<br>1920 x 1080 - 1080p<br>1280 x 1024 - 1.4 Mpx<br>1280 x 960 - 1.3 Mpx<br>1280 x 720 - 720p |
| Lens:                     | 3.6 mm                                                                                                                                                               |
| View angle:               | <ul style="list-style-type: none"> <li>• 83 ° (manufacturer data)</li> <li>• 82 ° (our tests result)</li> </ul>                                                      |
| Range of IR illumination: | 50 m                                                                                                                                                                 |
| S/N ratio:                | > 50 dB                                                                                                                                                              |
| Memory card slot:         | Micro SD memory cards up to 128GB support (possible local recording)                                                                                                 |
| Image compression method: | H.265 / H.264 / MJPEG                                                                                                                                                |



# DATA SHEET

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alarm inputs / outputs:        | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Audio:                         | <ul style="list-style-type: none"><li>• Microphone built-in</li><li>• Audio detection</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                  |
| Bitrate:                       | 24 ... 10240 kbps - H.264<br>14 ... 9984 kbps - H.265                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Main stream frame rate:        | 25 fps @ 4.0 Mpx                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Network interface:             | 10/100 Base-T (RJ-45)                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Network protocols:             | HTTP, HTTPS, ARP, IPv4/IPv6, TCP, RTSP, RTP, UDP, SMTP, FTP, DHCP, DNS, DDNS, PPPoE, UPnP, NTP, QoS, Bonjour, IEEE 802.1x, Multicast, ICMP, IGMP                                                                                                                                                                                                                                                                                                                                                 |
| WEB Server:                    | Built-in                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Max. number of on-line users:  | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| ONVIF:                         | 16.12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Main features:                 | <ul style="list-style-type: none"><li>• 3D-DNR - Digital Noise Reduction</li><li>• WDR - 120 dB - Wide Dynamic Range</li><li>• BLC/HLC - Back Light / High Light Compensation</li><li>• Possibility to change the resolution, quality and bit rate</li><li>• Audio detection</li><li>• IVS analysis : crossing the line (tripwire), intrusion, abandoned/missing object, face detection</li><li>• Configurable Privacy Zones</li><li>• Audio detection</li><li>• Mirror - Mirror image</li></ul> |
| Mobile phones support:         | Port no.: 37777 or access by a cloud (P2P)<br><ul style="list-style-type: none"><li>• Android: Free application <a href="#">DMSS</a>, Android: Free application <a href="#">IMOU</a></li><li>• iOS (iPhone): Free application <a href="#">DMSS</a>, iOS (iPhone): Free application <a href="#">IMOU</a></li></ul>                                                                                                                                                                                |
| Default IP address:            | 192.168.1.108                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Default admin user / password: | admin / admin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 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                                                                                                                                                                                                                                                                                                                  |
| Color:                         | White                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Vandal-proof:                  | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Power supply:                  | <ul style="list-style-type: none"><li>• PoE (802.3af),</li><li>• ePoE,</li><li>• 12 V DC / 420 mA</li></ul>                                                                                                                                                                                                                                                                                                                                                                                      |
| Power consumption:             | ≤ 5.5 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Housing:                       | Dome, Metal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| "Index of Protection":         | IP67                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |



## DATA SHEET

|                       |                  |
|-----------------------|------------------|
| Operation temp:       | -30 °C ... 60 °C |
| Dimensions:           | Ø 106 x 94 mm    |
| Weight:               | 0.47 kg          |
| Supported languages:  | English, Polish  |
| Manufacturer / Brand: | DAHUA            |
| Guarantee:            | <b>3 years</b>   |