# DH-IPC-HDW1239V-PV

## 2MP Entry Smart Dual Light Active Deterrence Fixed-focal Eyeball Network Camera

### Series Overview

With features of simple installation, easy operation, and high performance-cost ratio, Dahua Entry series network camera is applicable to small and medium-sized scenes, such as homes/residences, small-sized retail stores, and other small and medium-sized enterprises.

### Functions

#### Siren and Light Active Deterrence

Dahua siren and light active deterrence network camera supports the light alarm and voice alarm when perimeter event occurs, to realize the deterrence and effective intervention. The camera is built in multiple voices for selection, and supports customized voice importing.

#### Smart Dual Light

Dahua Smart Dual Light technology adopts smart algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the white light is on, and the camera records the full-color video and information of key events. That is, the camera links snapshot and video with full-color image. When the target is out of the monitoring area, the white light is off and the IR illuminator is on, which reduces light pollution efficiently.

#### Human Detection

Dahua intelligent algorithms extract moving human targets from videos and filters out alarms that are triggered by non-human targets to increase the accuracy and effectiveness of alarms.

#### Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

- 2-MP 1/2.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 2 MP (1920 × 1080)@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED and warm light, and the max. IR distance is 30 m, the max. warm light distance is 30 m.
- DWDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Abnormality detection: Motion detection, video tampering, audio detection, network disconnection, IP conflict and illegal access.
- Built-in Mic; built-in speaker; support two-way talk.
- 12 VDC/PoE power supply, easy for installation.
- IP67 protection.
- Sound and light alarm.
- Supports human detection.
- One-tap arming/disarming.

| 2Mp | Active Deterrence | Smart Dual Light | Human Detection | Smart Codec | IP67 |

### Protection (IP67, Wide Voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can work normally after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

## Technical Specification

### Camera

| | |
|---|---|
| Image Sensor | 1/2.8" CMOS |
| Max. Resolution | 1920 (H) × 1080 (V) |
| ROM | 128 MB |
| RAM | 128 MB |
| Scanning System | Progressive |
| Electronic Shutter Speed | Auto/Manual 1/3 s–1/100,000 s |
| Min. Illumination | 0.005 lux@F1.6 (Color, 30 IRE)<br>0.0005 lux@F1.6 (B/W, 30 IRE)<br>0 lux (Illuminator on) |
| S/N Ratio | >56 dB |
| Illumination Distance | Up to 30 m (98.43 ft)(IR)<br>Up to 30 m (98.43 ft)(Warm light) |
| Illuminator On/Off Control | Auto;Manual |
| Illuminator Number | 1 (IR LED); 1 (Warm light) |
| Angle Adjustment | Pan: 0°–360°<br>Tilt: 0°–78°<br>Rotation: 0°–360° |

### Lens

| | |
|---|---|
| Lens Type | Fixed-focal |
| Lens Mount | M12 |
| Focal Length | 2.8 mm; 3.6 mm |
| Max. Aperture | F1.6 |
| Field of View | 2.8 mm: H: 103°; V: 55°; D: 123°<br>3.6 mm: H: 86°; V: 46°; D: 103° |
| Iris Control | Fixed |
| Close Focus Distance | 2.8 mm: 0.8 m (2.62 ft)<br>3.6 mm: 1.1 m (3.61 ft) |

| DORI Distance | Lens | Detect | Observe | Recognize | Identify |
|---|---|---|---|---|---|
| | 2.8 mm | 44.1 m<br>( 144.69 ft) | 17.7 m<br>( 58.07 ft) | 8.8 m<br>( 28.87 ft) | 4.4 m<br>( 14.4 ft) |
| | 3.6 mm | 53.8 m<br>( 176.51 ft) | 21.5 m<br>( 70.54 ft) | 10.8 m<br>( 35.43 ft) | 5.4 m<br>( 17.72 ft) |

*DORI (Detect, Observe, Recognize, Identify)is a standard system (EN-62676-4)for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.

### Intelligence

| | |
|---|---|
| Human Detection | Support the classification and accurate detection of human |
| Smart Search | Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos |

### Video

| | |
|---|---|
| Video Compression | H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream) |
| Smart Codec | Smart H.265+; Smart H.264+ |
| Video Frame Rate | Main stream: 1920 × 1080@(1–25/30 fps)<br>sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps)<br>*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity. |
| Streaming Capability | 2 streams |
| Resolution | 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240) |
| Bit Rate Control | CBR/VBR |
| Video Bit Rate | H.264: 32 kbps–4096 kbps;<br>H.265: 12 kbps–4096 kbps |
| Day/Night | Auto(ICR)/Color/B/W |
| BLC | Yes |
| HLC | Yes |
| WDR | DWDR |
| White Balance | Auto; natural; street lamp; outdoor; manual; regional custom |
| Gain Control | Manual;Auto |
| Noise Reduction | 3D NR |
| Motion Detection | OFF/ON (4 areas, rectangular) |
| Region of Interest (RoI) | Yes (4 areas) |
| Smart Illumination | Yes |
| Smart Dual Light | Yes |
| Image Rotation | 0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower) |
| Mirror | Yes |
| Privacy Masking | Yes (4 areas) |

### Audio

| | |
|---|---|
| Built-in MIC | Yes, built-in Mic |
| Built-in Speaker | Yes, built-in speaker |
| Audio Compression | G.711a; G.711Mu; PCM; G.726 |

### Alarm

| | |
|---|---|
| Alarm Event | Network disconnection; IP conflict; illegal access; motion detection; video tampering;audio detection ;SMD (human); security exception; |

### Network

| | |
|---|---|
| Network Port | RJ-45 (10/100 Base-T) |
| SDK and API | Yes |
| Network Protocol | IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP；P2P; Auto Registration |
| Interoperability | ONVIF (Profile S & Profile T); CGI |
| User/Host | 6 (Total bandwidth: 24 M) |
| Storage | FTP |

| | |
|---|---|
| Browser | IE; Chrome; Firefox |
| Management Software | Smart PSS Lite; DSS; DMSS |
| Mobile Client | iOS;Android |
| Security | Digest;WSSE;Account lockout;Security logs;Generation and importing of X.509 certification;HTTPS;Trusted boot;Trusted execution;Trusted upgrade |

## Certification

| | |
|---|---|
| Certifications | CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU |

## Power

| | |
|---|---|
| Power Supply | 12 VDC/PoE (802.3af) |
| Power Consumption | Basic: 1.8 W (12 VDC); 2.5 W (PoE); Max.: 8.5 W (12 VDC); 10 W (PoE) (H.265 + intelligence on + WDR + IR intensity + warm light deterrence + speaker) |
| ePoE | No |

## Environment

| | |
|---|---|
| Operating Temperature | −40 °C to +60 °C (−40 °F to +140 °F) |
| Operating Humidity | ≤95% (RH), non-condensing |
| Storage Temperature | −40 °C to +60 °C (−40 °F to +140 °F) |
| Storage Humidity | ≤95% (RH), non-condensing |
| Protection | IP67 |

## Structure

| | |
|---|---|
| Casing Material | Inner core: Metal + Plastc; Cover: Plastc |
| Product Dimensions | 100.9 mm × Φ109.9 mm (3.97" × Φ4.33") |
| Net Weight | 0.32 kg (0.71 lb) |
| Gross Weight | 0.46 kg (1.01 lb) |

## Ordering Information

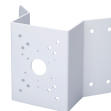| Type | Model | Description |
|---|---|---|
| IP CAMERA | DH-IPC-HDW1239V-PV | 2MP Entry Smart Dual Light Active Deterrence Fixed-focal Eyeball Network Camera |
| Accessories (Optional) | DH-PFA109 | Mount Adapter |
| | DH-PFB220C | Ceiling Mount Bracket |
| | DH-PFB305W | Wall Mount Bracket |
| | DH-PFA151 | Corner Mount Bracket |
| | DH-PFA150 | Pole Mount Bracket |
| | DH-PFA152-E | Pole Mount Bracket |
| | DH-PFB205W-E | Wall Mount Bracket |
| | DH-PFA13G | Junction Box |
| | DH-PFM321-EN | DC12V1A power adapter |
| | DH-PFM320D-EN | DC12V2A power adapter |
| | PFM900-E | Integrated Mount Tester |

## Accessories

Optional:



DH-PFA109
Mount Adapter

DH-PFA13G
Junction Box

DH-PFA150
Pole Mount Bracket

DH-PFA151
Corner Mount Bracket

DH-PFA152-E
Pole Mount Bracket

DH-PFB205W-E
Wall Mount Bracket

DH-PFB220C
Ceiling Mount Bracket
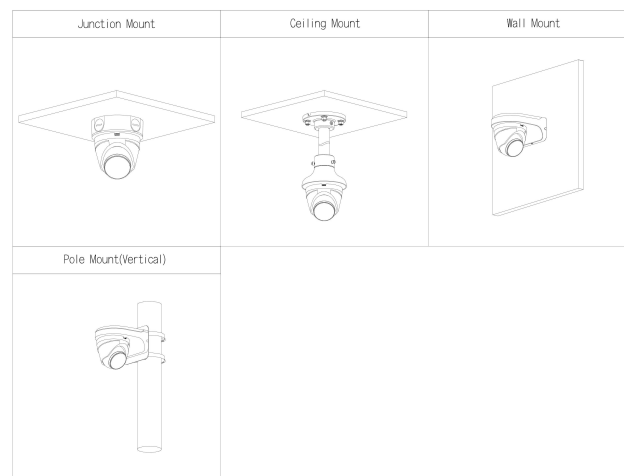
DH-PFB305W
Wall Mount Bracket

DH-PFM320D-EN
DC12V2A power adapter

DH-PFM321-EN
DC12V1A power adapter

PFM900-E
Integrated Mount Tester

| Junction Mount | Ceiling Mount | Wall Mount |
|---|---|---|
| Pole Mount(Vertical) | | |

## Dimensions (mm[inch])

mm [inch]

83.3 [3.28]

4-4.5×5.5 [0.18×0.22]

⌀84.0 [⌀3.31]

100.9 [3.97]

3-120°

⌀109.9 [⌀4.33]