

# DH-IPC-HDBW1230E-S4

2MP Entry IR Fixed-Focal Dome Network Camera



- 2MP, 1/2.7" CMOS image sensor, low illuminance, high image definition
- Outputs max. 2MP (1920 × 1080) @25/30 fps
- H.265 codec, high compression rate, ultra-low bit rate
- Built-in IR LED, max. IR distance: 30 m
- ROI, SMART H.264/H.265, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, DWDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Abnormality detection: Motion detection, video tampering, network disconnection, IP conflict, illegal access
- 12V DC/PoE power support
- IP67, IK10 protection



## System Overview

With features of simple installation, easy operation, and high performance-cost ratio, Dahua Entry Series 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

### Smart (H.265+ & 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.

### Motion Detection

When moving objects appear in the monitoring image, Dahua Motion Detection technology triggers alarm or records.

### Smart IR

Dahua Smart IR technology can display image in the environment of low illuminance or completely dark environment. According to the distance of the targets, the camera adjusts IR LEDs intensity automatically to display the details of the moving target.

## Image Flip

For narrow and long scenes, Dahua image flip technology flips the image by 90°/270° to realize better surveillance in rotation mode.

## Protection (IP67, IK10, 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 normal after soaking in 1 m deep water for 30 minutes.

**IK10:** The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 m (Impact energy is 20J).

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

Technical Specification

|                          |  |
|--------------------------|--|
| Camera                   |  |
| Image Sensor             | 1/2.7" 2Megapixel progressive CMOS                           |
| Effective Pixels         | 1920 (H) × 1080 (V)  |
| ROM                      | 16 MB  |
| RAM                      | 64 MB  |
| Scanning System          | Progressive  |
| Electronic Shutter Speed | Auto/Manual 1/3 s–1/100000 s                                 |
| Min. Illumination        | 0.01 Lux @F2.0   |
| IR Distance              | 30 m (98.4 ft)   |
| IR On/Off Control        | Auto/Manual  |
| IR LEDs Number           | 3  |
| Pan/Tilt/Rotation Range  | Horizontal: 0°–355°<br>Vertical: 0°–65°<br>Rotation: 0°–355° |

| Lens                 |        |   |                     |                     |                    |
|----------------------|--------|---|---------------------|---------------------|--------------------|
| Lens Type            |        | Fixed-focal   |                     |                     |                    |
| Mount Type           |        | M12   |                     |                     |                    |
| Focal Length         |        | 2.8 mm<br>3.6 mm  |                     |                     |                    |
| Max. Aperture        |        | F2.0<br>F2.0  |                     |                     |                    |
| Field of View        |        | 2.8 mm:<br>Horizontal: 105°<br>Vertical: 57°<br>Diagonal: 125°<br>3.6 mm:<br>Horizontal: 87°<br>Vertical: 47°<br>Diagonal: 104° |                     |                     |                    |
| Iris Type            |        | Fixed aperture  |                     |                     |                    |
| Close Focus Distance |        | 2.8 mm: 0.5 m (1.6 ft)<br>3.6 mm: 0.9 m (3.0 ft)  |                     |                     |                    |
| DORI Distance        | Lens   | Detect  | Observe             | Recognize           | Identify           |
|                      | 2.8 mm | 37.3 m<br>(122.4 ft)  | 14.9 m<br>(48.9 ft) | 7.5 m<br>( 24.6 ft) | 3.7 m<br>(12.1 ft) |
|                      | 3.6 mm | 53.3 m<br>(174.9 ft)  | 21.3 m<br>(69.9 ft) | 10.7 m<br>(35.1 ft) | 5.3 m<br>(17.4 ft) |

|                   |   |
|-------------------|---|
| Video             |   |
| Video Compression | H.265; H.264; H.264H; H.264B; MJPEG   |
| Smart Codec       | Yes   |
| Video Frame Rate  | Main Stream:<br>1920 × 1080 (1 fps–25/30 fps)<br>Sub stream:<br>704 × 576 (1 fps–25 fps)<br>704 × 480 (1 fps–30 fps)          |
| Stream 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–6144 Kbps<br>H.265: 12 Kbps–6400 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            | Auto/Manual  |
| Noise Reduction         | 3D DNR   |
| Motion Detection        | OFF/ON (4 areas, rectangular)                              |
| Region of Interest(Roi) | Yes (4 areas)  |
| Smart IR                | Yes  |
| Image Rotation          | 0°/90°/180°/270° (Support 90°/270° with 1080p resolution.) |
| Mirror                  | Yes  |
| Privacy Masking         | 4 areas  |

|                     |   |
|---------------------|---|
| Network             |   |
| Network             | RJ-45 (10/100 Base-T)   |
| Protocol            | IPv4; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; SMTP; FTP; DHCP; DNS; NTP; Multicast |
| Interoperability    | ONVIF (Profile S); CGI; P2P; Genetec  |
| User/Host           | 20  |
| Edge Storage        | FTP; Dahua Cloud  |
| Browser             | IE<br>Chrome<br>Firefox   |
| Management Software | Smart PSS; DSS; DMSS  |
| Mobile Phone        | IOS; Android  |

|               |   |
|---------------|---|
| Certification | CE-LVD: EN60950-1<br>CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU<br>FCC: 47 CFR FCC Part 15, Subpart B |
|---------------|---|

|                   |                      |
|-------------------|----------------------|
| Power             |                      |
| Power Supply      | 12V DC/PoE (802.3af) |
| Power Consumption | < 5W                 |

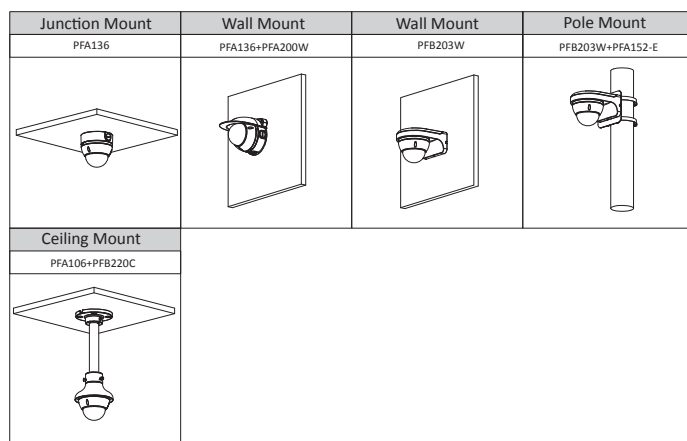
|                      |  |
|----------------------|--|
| Environment          |  |
| Operating Conditions | -40°C to +60°C (-40°F to +140°F)/less than ≤ 95% |
| Storage Temperature  | -40°C to +60°C (-40°F to +140°F)                 |
| Ingress Protection   | IP67; IK10                                       |

## Structure

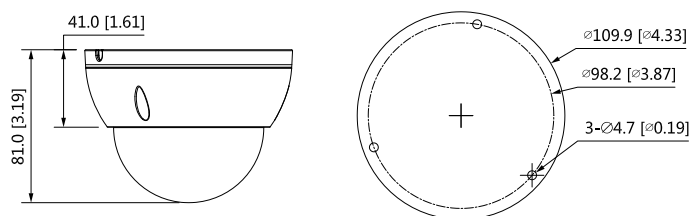
|              |                                  |
|--------------|----------------------------------|
| Casing       | Metal                            |
| Dimensions   | 81 mm × Φ109.9 mm (3.2" × Φ4.3") |
| Net Weight   | 0.35 kg (0.7 lb)                 |
| Gross Weight | 0.50 kg (1.1 lb)                 |

## Ordering Information

| Type                   | Part Number          | Description  |
|------------------------|----------------------|--|
| 2MP Camera             | DH-IPC-HDBW1230EP-S4 | 2MP Entry IR Fixed Focal Dome Network Camera, PAL  |
|                        | DH-IPC-HDBW1230EN-S4 | 2MP Entry IR Fixed Focal Dome Network Camera, NTSC |
| Accessories (optional) | PFA136               | Junction Box                                       |
|                        | PFA200W              | Rain Shade   |
|                        | PFB203W              | Wall Mount   |
|                        | PFA152-E             | Pole Mount   |
|                        | PFA106               | Mount Adapter                                      |
|                        | PFB220C              | Ceiling Mount                                      |
|                        | PFM321D              | DC12V1A Power Adapter                              |
|                        | LR1002-1ET/1EC       | Single-port Long Reach Ethernet over Coax Extender |
|                        | PFM900-E             | Integrated Mount Tester                            |



## Dimensions (mm[inch])



## Accessories

### Optional:



PFA136  
Junction Box



PFA200W  
Rain Shade



PFB203W  
Wall Mount



PFA152-E  
Pole Mount



PFA106  
Mount Adapter



PFB220C  
Ceiling Mount



PFM321D  
DC12V1A Power  
Adapter



LR1002-1ET/1EC  
Single-port Long  
Reach Ethernet over  
Coax Extender



PFM900-E  
Integrated Mount  
Tester