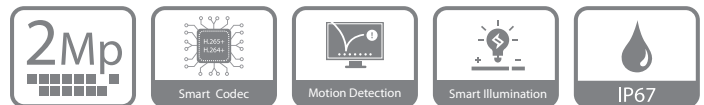


# DH-IPC-HDPW1230R1-S5

2MP Entry IR Fixed-Focal Dome Network Camera



- 2MP, 1/2.8" 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 efficient IR illuminator, and the max. illumination distance is 30 m
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, DWDR, 3D NR, 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 supply
- IP67 protection



## 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

### 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.

### Motion Detection

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

### Smart Illumination

Dahua Smart Illumination technology can display image in the environment of low illuminance or completely dark environment. According to the distance of the targets, the camera adjusts illuminations 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°/180°/270° to realize better surveillance in rotation mode.

### 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 works normal after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows  $\pm 30\%$  (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                        | 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                                     |
| S/N Ratio                  | >56 dB                                             |
| Illumination Distance      | 30 m (98.4 ft)                                     |
| Illuminator On/Off Control | Auto/Manual                                        |
| Illuminator Number         | 1 (IR LED)                                         |
| Pan/Tilt/Rotation Range    | Pan: 0°–355°<br>Tilt: 0° –75°<br>Rotation: 0°–355° |

|                      |                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                   |                  |                  |                 |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|------------------|------------------|-----------------|
| Lens                 |                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                   |                  |                  |                 |
| Lens Type            |                                                                                                                                                                                                                                                                                                                                                                                 | Fixed-focal                                                                                                       |                  |                  |                 |
| Lens Mount           |                                                                                                                                                                                                                                                                                                                                                                                 | M12                                                                                                               |                  |                  |                 |
| Focal Length         |                                                                                                                                                                                                                                                                                                                                                                                 | 2.8 mm; 3.6 mm                                                                                                    |                  |                  |                 |
| Max. Aperture        |                                                                                                                                                                                                                                                                                                                                                                                 | 2.8 mm: F2.0<br>3.6 mm: F2.0                                                                                      |                  |                  |                 |
| Field of View        |                                                                                                                                                                                                                                                                                                                                                                                 | 2.8 mm: Horizontal: 102°; Vertical: 54°; Diagonal: 120°<br>3.6 mm: Horizontal: 84°; Vertical: 45°; Diagonal: 100° |                  |                  |                 |
| Iris Control         |                                                                                                                                                                                                                                                                                                                                                                                 | Fixed                                                                                                             |                  |                  |                 |
| Close Focus Distance |                                                                                                                                                                                                                                                                                                                                                                                 | 2.8 mm: 0.5 m (1.6 ft)<br>3.6 mm: 0.8 m (2.6 ft)                                                                  |                  |                  |                 |
| DORI Distance        | Lens                                                                                                                                                                                                                                                                                                                                                                            | Detect                                                                                                            | Observe          | Recognize        | Identify        |
|                      | 2.8 mm                                                                                                                                                                                                                                                                                                                                                                          | 37.3 m (122.4 ft)                                                                                                 | 14.9 m (48.9 ft) | 7.5 m (24.6 ft)  | 3.7 m (12.1 ft) |
|                      | 3.6 mm                                                                                                                                                                                                                                                                                                                                                                          | 53.3 m (174.9 ft)                                                                                                 | 21.3 m (69.9 ft) | 10.7 m (35.1 ft) | 5.3 m (17.4 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. |                                                                                                                   |                  |                  |                 |

|                   |                                                                                                                                 |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Video             |                                                                                                                                 |
| Video Compression | H.265; H.264; H.264B; MJPEG (only supported by the sub stream)                                                                  |
| Smart Codec       | Smart H.265+/Smart H.264+                                                                                                       |
| 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 NR                                                               |
| Motion Detection         | OFF/ON (4 areas, rectangular)                                       |
| Region of Interest (RoI) | Yes (4 areas)                                                       |
| Smart Illumination       | Yes                                                                 |
| Image Rotation           | 0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower) |
| Mirror                   | Yes                                                                 |
| Privacy Masking          | 4 areas                                                             |

|                     |                                                                                                                                                        |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alarm               |                                                                                                                                                        |
| Alarm Event         | Network disconnection; IP conflict; illegal access; motion detection; video tampering; safety exception                                                |
| Network             |                                                                                                                                                        |
| Network             | RJ-45 (10/100 Base-T)                                                                                                                                  |
| SDK and API         | Yes                                                                                                                                                    |
| Security            | Digest; WSSE; Account lockout; Security logs; Generation and importing of X.509 certification; HTTPS; Trusted boot; Trusted execution; Trusted upgrade |
| Network Protocol    | IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; SMTP; FTP; DHCP; DNS; NTP; Multicast                                                                       |
| Interoperability    | ONVIF (Profile S/Profile T); CGI; P2P; Genetec                                                                                                         |
| User/Host           | 6 (Total bandwidth: 36 M)                                                                                                                              |
| Storage             | FTP                                                                                                                                                    |
| Browser             | IE<br>Chrome<br>Firefox                                                                                                                                |
| Management Software | Smart PSS; DSS; DMSS                                                                                                                                   |
| Mobile Client       | IOS; Android                                                                                                                                           |

|                |                                                                                                                       |
|----------------|-----------------------------------------------------------------------------------------------------------------------|
| Certification  |                                                                                                                       |
| Certifications | CE-LVD: EN62368-1<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)                                                                                                  |

Entry Series | DH-IPC-HDPW1230R1-S5

|                      |                                                                                                                                         |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Power Consumption    | Basic power consumption: 1.6W (12V DC); 2.4W (PoE)<br>Max. power consumption (ICR + H.265 + IR intensity):<br>3.9W (12V DC); 4.7W (PoE) |
| 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)                                                                                                        |
| Protection           | IP67                                                                                                                                    |
| Structure            |                                                                                                                                         |
| Casing               | Plastic                                                                                                                                 |
| Product Dimensions   | 98.1 mm × Φ122 mm (3.9" × Φ4.8")                                                                                                        |
| Net Weight           | 0.34 kg (0.7 lb)                                                                                                                        |
| Gross Weight         | 0.52 kg (1.1 lb)                                                                                                                        |

| Ordering Information   |                       |                                                    |
|------------------------|-----------------------|----------------------------------------------------|
| Type                   | Part Number           | Description                                        |
| 2MP Camera             | DH-IPC-HDPW1230R1P-S5 | 2MP Entry IR Fixed Focal Dome Network Camera,PAL   |
|                        | DH-IPC-HDPW1230R1N-S5 | 2MP Entry IR Fixed Focal Dome Network Camera,NTSC  |
| Accessories (optional) | PFA137                | Junction Box                                       |
|                        | PFA123                | Junction Box                                       |
|                        | 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                            |

Accessories

Optional:



PFA137  
Junction Box



PFA123  
Junction Box



PFB203W  
Wall Mount



PFA106  
Mount Adapter



PFB220C  
Ceiling Mount



PFA152-E  
Pole Mount



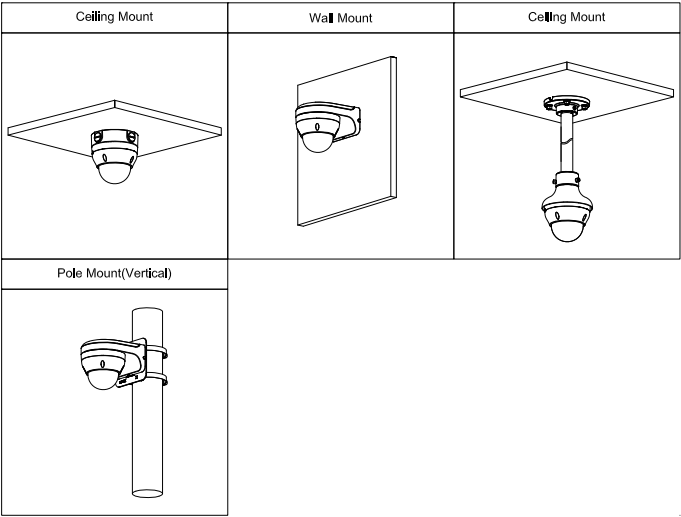
PFM321D  
DC12V1A Power  
Adapter



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



PFM900-E  
Integrated Mount  
Tester



Dimensions (mm[inch])

