**dahua** TECHNOLOGY

# DH-IPC-HDW1439T1-LED-S4
## 4MP Entry Full-color Fixed-focal Netwok Camera

- 4-MP 1/3" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2560 × 1440)@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in warm light, and the max. illumination distance is 15 m.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Abnormality detection: Motion detection, video tampering, network disconnection, IP conflict, illegal access, and voltage detection.
- 12 VDC/PoE power supply.
- IP67 protection.

| 4Mp | Smart Codec | Full-color | Motion Detection | Image Flip | IP67 |

### 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.

### Cyber Security
Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising the device.

### 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.

### 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.

#### Full-color
With high-performance sensor and large aperture lens, Dahua Full-color technology can display clear colorful image in the environment of ultra-low illuminance. With this photosensitivity technology, the camera can capture more available light, and display more colorful image details.

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

## Technical Specification

### Camera

| | |
|---|---|
| Image Sensor | 1/3" CMOS |
| Max. Resolution | 2560 (H) × 1440 (V) |
| ROM | 128 MB |
| RAM | 128 MB |
| Scanning System | Progressive |
| Electronic Shutter Speed | Auto/Manual 1/3 s–1/100,000 s |
| Min. Illumination | 0.008 lux@F1.6 |
| S/N Ratio | >56 dB |
| Illumination Distance | 15 m (49.21 ft) (warm light) |
| Illuminator On/Off Control | Auto;Manual |
| Illuminator Number | 1 (warm light) |
| Pan/Tilt/Rotation Range | 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 | H: 95°; V: 52°; D: 114°; H: 78°; V: 41°; D: 94° |
| Iris Control | Fixed |
| Close Focus Distance | 0.9 m (2.95 ft); 1.6 m (5.25 ft) |

| | Lens | Detect | Observe | Recognize | Identify |
|---|---|---|---|---|---|
| DORI Distance | 2.8 mm | 63.6 m (208.66 ft) | 25.4 m (83.33 ft) | 12.7 m (41.67 ft) | 6.4 m (20.99 ft) |
| | 3.6 mm | 85.4 m (280.18 ft) | 34.2 m (112.20 ft) | 17.1 m (56.10 ft) | 8.5 m (27.89 ft) |

### 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: 2560 × 1440@ (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. |
| Stream Capability | 2 streams |
| Resolution | 4M (2560 × 1440); 3M (2304 × 1296); 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: 32 kbps–6144 kbps |

| | |
|---|---|
| Day/Night | Color/B/W |
| BLC | Yes |
| HLC | Yes |
| WDR | 120 dB |
| 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 2560 × 1440 resolution and lower) |
| Mirror | Yes |
| Privacy Masking | 4 areas |

### Alarm

| | |
|---|---|
| Alarm Event | Network disconnection; IP conflict; illegal access; motion detection; video tampering; voltage detection; 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; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour |
| Interoperability | ONVIF (Profile S/Profile T); CGI; P2P; Milestone |
| User/Host | 20 (Total bandwidth: 48 M) |
| Storage | FTP; SFTP; NAS |
| Browser | IE<br>Chrome<br>Firefox |
| Management Software | Smart PSS; DSS; DMSS |
| Mobile Client | iOS; Android |
| Cyber Security | Configuration encryption;Trusted execution; Digest; Security logs; WSSE; Account lockout; syslog; Video encryption; 802.1x; IP/MAC filtering; HTTPS; Trusted upgrade; Trusted boot; Firmware encryption; Generation and importing of X.509 certification |

### 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 | 12  VDC/PoE (802.3af) |
| Power Consumption | Basic: 2.1 W (12 VDC); 3 W (PoE)<br>Max. (WDR+H.265+ warm light intensity): 4.3 W (12 VDC); 5.3 W (PoE) |

## Environment

| | |
|---|---|
| Operating Temperature | −40 °C to +55°C (−40 °F to +131 °F) |
| Operating Humidity | ≤95% |
| Storage Temperature | −40 °C to +60 °C (−40 °F to +140 °F) |
| Protection | IP67 |

## Structure

| | |
|---|---|
| Casing Material | Inner core: Metal + Plastic<br>Cover: Plastic<br>Decoration ring: Plastic<br>Pedestal: Plastic |
| Product Dimensions | 85.5 mm × Φ109 mm (3.37"× Φ4.29") |
| Net Weight | 0.24 kg (0.53 lb) |
| Gross Weight | 0.37 kg (0.82 lb) |

## Ordering Information

| Type | Model | Description |
|---|---|---|
| 4MP Camera | DH-IPC-HDW1439T1-LED-S4 | 4MP Entry Full-color Fixed-focal Eyeball Netwok Camera |
| Accessories (Optional) | PFA136 | Junction Box |
| | PFB203W | Wall Mount Bracket |
| | PFA152-E | Pole Mount Bracket |
| | PFA106 | Mount Adapter |
| | PFB220C | Ceiling Mount Bracket |
| | PFM321D | 12 VDC 1A Power Adapter |
| | PFM900-E | Integrated Mount Tester |

## Accessories

Optional:



PFA136
Junction Box

PFB203W
Wall Mount Bracket

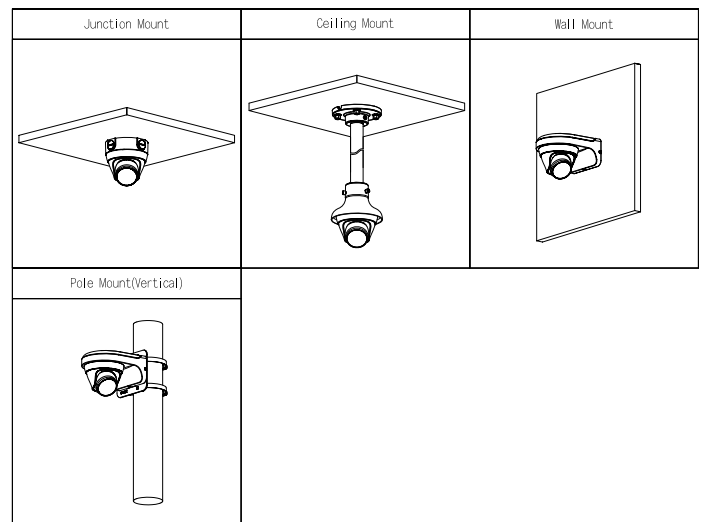PFA152-E
Pole Mount Bracket

PFA106
Mount Adapter

PFB220C
Ceiling Mount Bracket

PFM321D
12 VDC 1A Power Adapter

PFM900-E
Integrated Mount Tester



## Dimensions (mm[inch])