

DH-IPC-HDW1431T1-S4

4 MP Entry IR Fixed-Focal Eyeball Netwok Camera



- 4 MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs 4 MP (2560 × 1440) @25/30 fps, and supports max. 4 MP (2688 × 1520) @20 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, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Abnormality detection: Motion detection, video tampering, network disconnection, IP conflict, and illegal access
- 12 VDC/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.

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.

Motion Detection

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

Image Flip

For narrow and long scenes, Dahua image flip technology flips the image by $90^{\circ}/180^{\circ}/270^{\circ}$ 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 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.

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|------------------------------------|---------------|--|----------------------|---------------------|----------------------------------|--|--------------------------|--|
| Technical Specification | | | | Bit Rate Control | CBR/VBR H.264: 32 kbps-6144 kbps | | | |
| Camera | | | | | | | Video Bit Rate | H.265: 12 kbps–6144 kbps |
| Image Sensor | | 1/3" CMOS | | | | | Day/Night | Auto (ICR)/Color/B/W |
| Max. Resolution | | 2688 (H) × 1520 (V) | | | | | BLC | Yes |
| ROM | | 128 MB | | | | | HLC | Yes |
| RAM | | 128 MB | | | | | WDR | 120 dB |
| Scanning System | | Progressive | | | | | White Balance | Auto; natural; street lamp; outdoor; manual; regional custom |
| Electronic Shutter Speed | | Auto/Manual 1/3 s-1/100,000 s | | | | | Gain Control | Manual; auto |
| Min. Illumination | | 0.03 lux@F2.0 (Color, 30 IRE) 0.003 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on) | | | | | Noise Reduction | 3D NR |
| S/N Ratio | S/N Ratio | | >56 dB | | | | Motion Detection | OFF/ON (4 areas, rectangular) |
| Illumination | Distance | 30 m (98.4 ft) (IR) | | | | | Region of Interest (RoI) | Yes (4 areas) |
| Illuminator C | n/Off Control | Auto; manual | | | | | Smart Illumination | Yes |
| Illuminator Number | | 1 (IR LED) | | | | | Image Rotation | $0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower.) |
| Pan/Tilt/Rota | ation Range | Pan: 0°–355° Tilt: 0°–78° | | | | | Mirror | Yes |
| | | Rotation: 0°–360° | | | | | Privacy Masking | 4 areas |
| Lens | | | | | | | Alarm | |
| Lens Type Lens Mount | | | Fixed-focal M12 | | | | Alarm Event | Network disconnection; IP conflict; motion detection; video tampering; illegal access; voltage detection; |
| Focal Length | | 2.8 mm; 3.6 mm | | | | | Network | security exception |
| Max. Apertu | ro | 2.8 mm: F2.0 | | | | | Network Port | RJ-45 (10/100 Base-T) |
| iviax. Apertu | i e | 3.6 mm: F2.0 | | | | | SDK and API | Yes |
| Field of View | | 2.8 mm: Horizontal: 93°; Vertical: 53°; Diagonal: 111° 3.6 mm: Horizontal: 81°; Vertical: 44°; Diagonal: 95° | | | | | SDK alla Ar i | Video encryption; firmware encryption; configuration |
| Iris Control Close Focus Distance | | Fixed 2.8 mm: 0.8 m (2.6 ft) 3.6 mm: 1.4 m (4.6 ft) | | | | | Cyber Security | encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade |
| | Lens | Detect | Observe | Recognize | Identify | | 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 |
| DORI Distance | 2.8 mm | 50.0 m (183.7 ft) | 22.4 m (73.5 ft) | 11.2 m (36.7 ft) | 15.1 m (18.4 ft) | | Interoperability | ONVIF (Profile S/Profile T); CGI; Milestone; Genetec; P2P |
| | 3.6 mm | 80.0 m (262.5 ft) | 32.0 m (105.0 ft) | 16.0 m (52.5 ft) | 8.0 m (26.2 ft) | | User/Host | 20 |
| Video | | , | , | , | , | | Storage | FTP; SFTP; NAS |
| Video Compi | ession | H.265; H.264; H.264B; MJPEG (only supported by the sub | | | | | Browser | IE; Chrome; Firefox |
| Smart Codec | | stream) Smart H.265+; Smart H.264+ | | | | | Management Software | Smart PSS; DSS; DMSS |
| Jillart Couce | Smart Codec | | Main Stream: | | | | Mobile Client | iOS; Android |
| Video Frame Rate | | $2688 \times 1520 \ (1 \ fps-20 \ fps)$ $2560 \times 1440 \ (1 \ fps-25/30 \ fps)$ Sub Stream: $704 \times 576 \ (1 \ fps-20/25 \ fps)$ $704 \times 480 \ (1 \ fps-20/30 \ fps)$ *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected | | | | | Certification | |
| | | | | | | | Certifications | CE-LVD: EN 62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B |
| Shroom Court Hill | | to the total encoding capacity. | | | | | Power | |
| Stream Capability | | 2 streams 2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440); | | | | | Power Supply | 12 VDC/PoE |
| Resolution | | 2304 × 1296 (2304 × 1290); 2300 × 1440 (2300 × 1440); 2304 × 1296 (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) | | | | | Power Consumption | Basic: 1.4 W (12 VDC); 2.2 W (PoE) Max. (ICR + H.265+IR intensity): 3.3 W (12 VDC); 4.3 W (PoE) |

Environment

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

Structure

| Casing | Inner core: Metal + Plastic Cover: Plastic Decoration ring: Plastic Pedestal: Plastic | |
|--------------------|--|--|
| Product Dimensions | 85.5 mm × Φ109 mm (3.4" × Φ4.3") | |
| Net Weight | 0.25 kg (0.6 lb) | |
| Gross Weight | 0.37 kg (0.8 lb) | |

| Ordering Information | | | | | |
|----------------------|-------------------------|---|--|--|--|
| Туре | Model | Description | | | |
| 4MP Camera | DH-IPC- HDW1431T1-S4 | 4MP Entry IR Fixed-Focal Eyeball Netwok Camera | | | |
| | PFB203W | Pole Mount Bracket | | | |
| | PFA152-E | Pole Mount Bracket | | | |
| Accessories | PFA106 | Mount Adapter | | | |
| (Optional) | PFB220C | Ceiling Mount Bracket | | | |
| | PFM321D | 12 VDC 1A Power Adapter | | | |
| | PFM900-E | Integrated Mount Tester | | | |

Accessories

Optional:







PFB203W Pole Mount Bracket

W PFA152-E Bracket Pole Mount Bra

PFA152-E PFA106
Pole Mount Bracket Mount Adapter







PFB220C Ceiling Mount Bracket

PFM321D 12 VDC 1A Power Adapter

PFM900-E Integrated Mount

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

Dimensions (mm[inch])



