

DH-IPC-HFW1431T1-ZS-S4

4MP Entry IR Vari-focal Bullet Netwok Camera



- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs 4MP (2560 \times 1440) @25/30 fps, and supports max. 4MP (2688 \times 1520) @20 fps
- \cdot H.265 codec, high compression rate, ultra-low bit rate Built-in IR LED, max. IR distance: 50 m
- ROI, SMART H.264/H.265, flexible coding, applicable to various bandwidth and storage environments
- Image Rotation, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Abnormality detection: Motion detection, video tampering, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- · Supports max. 256 GB SD card
- 12V DC/PoE power support
- · IP67 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 (General) technology triggers alarm or records.

Wide Dynamic Range (WDR)

With advanced Wide Dynamic Range (WDR) technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

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.

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 $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



| Technical Specification | | | | | | Bit Rate Control | CBR; VBR |
|-------------------------------|------|--|----------------------|---------------------|---------------------|-----------------------|--|
| Camera | | | | | | Video Bit Rate | H.264: 32 Kbps–6144 Kbps H.265: 12 Kbps–6144 Kbps |
| Image Sensor | | 1/3 "4Megapixel progressive CMOS | | | | Day/Night | Auto(ICR)/Color/B/W |
| Effective Pixels | | 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 |
| Electronic Shutter Speed | | Auto/Manual 1/3 s-1/100000 s | | | | | custom |
| Min. Illumination | | 0.03 Lux @ F1.7 | | | | Gain Control | Manual/Auto |
| IR Distance | | 50 m (164.0 ft) | | | | Noise Reduction | 3D DNR |
| IR On/Off Control | | Auto/Manual | | | | Motion Detection | OFF/ON (4 areas, rectangular) |
| IR LEDs Number | | 2 | | | | Region of Interest(Ro | Yes (4 areas) |
| | | Horizontal: 0°–360° | | | | Smart IR | Yes |
| Pan/Tilt/Rotation Range | | Vertical: 0°–90° Rotation: 0°–360° | | | | Image Rotation | $0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution.) |
| Pan/Tilt/Rotation Ra | | nge | | | | Mirror | Yes |
| Lens Type | | Motorized vari-focal | | | | Privacy Masking | 4 areas |
| Mount Type | | ф14 | | | | Network | |
| Focal Length | | 2.8 mm-12 mm | | | | Network | RJ-45 (10/100 Base-T) |
| Max. Aperture | | F1.7 | | | | Protocol | HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; QoS; UPnP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP; IGMP |
| Field of View | | Horizontal: 98°–31° Vertical: 55°–18° Diagonal: 116°–36° | | | | Interoperability | ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; |
| Iris Type | | Fixed aperture | e | | | User/Host | 20 |
| Close Focus Distance | | 0.8 m (2.6 ft) | | | | Edge Storage | Dahua Cloud; FTP; SFTP; Micro SD card (support max. 256 GB); NAS |
| | Lens | Detect | Observe | Recognize | Identify | Browser | IE |
| DORI Distance | W | 66.0 m (183.7 ft) | 26.4 m (73.5 ft) | 13.2 m (36.7 ft) | 6.6 m (18.4 ft) | | Chrome Firefox |
| | Т | 200.0 m (656.2 ft) | 80.0 m (262.5 ft) | 40.0m (131.2 ft) | 20.0 m (65.6 ft) | Management Softwa | re Smart PSS; DSS; DMSS |
| Video | | (030.2 1t) | (202.5 11) | (131.2 1t) | (03.011) | Mobile Phone | IOS; Android |
| | | H.265; H.264; H.264B; MJPEG | | | | Certification | |
| Video Compression Smart Codec | | Yes | | | | Certifications | CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B |
| | | Main Stream: 2688 × 1520 (1 fps–20 fps) | | | | Power | |
| Video Frame Rate | | 2560 × 1440 (1 fps–25/30 fps) Sub Stream: 704 × 576 (1 fps–20/25 fps) 704 × 480 (1 fps–20/30 fps) | | | | Power Supply | 12V DC/POE (802.3af) |
| | | | | | | Power Consumption | < 7.5W (PoE) |
| | | | | | | Environment | |
| Stream Capability | | 2 streams | | | | Operating Conditions | -30°C to +55°C (-22°F to +131°F) /less than≤95% |
| Resolution | | 2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 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) | | | | Strorage Conditions | -40°C to +60°C (-40°F to +140°F) |
| | | | | | | Ingress Protection | IP67 |
| | | | | | | ווופופסס דו טנפננוטוו | 11.07 |

Entry Series | DH-IPC-HFW1431T1-ZS-S4

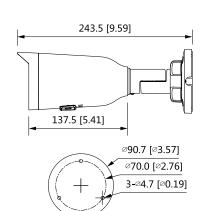
Structure

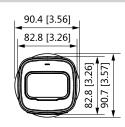
| Casing | Metal + plastic | | |
|--------------|------------------------------------|--|--|
| Dimensions | 243.5 mm × Φ90.7 mm (9.6" × Φ3.6") | | |
| Net Weight | 0.44 kg (1.0 lb) | | |
| Gross Weight | 0.69 kg (1.5 lb) | | |

| Ordering Information | | | | | | |
|----------------------|-------------------------|---|--|--|--|--|
| Туре | Part Number | Description | | | | |
| 4MP | DH-IPC-HFW1431T1P-ZS-S4 | 4MP Entry IR Vari-focal Bullet Netwok Camera,PAL | | | | |
| Camera | DH-IPC-HFW1431T1N-ZS-S4 | 4MP Entry IR Vari-focal Bullet Netwok Camera,NTSC | | | | |
| | PFA130-E | Junction Box | | | | |
| | PFA152-E | Pole mount | | | | |
| Accessories | PFM321D | DC12V1A Power adapter | | | | |
| (optional) | LR1002-1ET/1EC | Single-port long reach ethernet Over coax extender | | | | |
| | PFM900-E | Integrated mount tester | | | | |
| | PFM114 | TLC SD card | | | | |

Pole Mount **Junction Mount** PFA130-E PFA130-E+PFA152-E

Dimensions (mm[inch])





Accessories

Optional:



PFA130-E Junction Box



PFA152-E Pole Mount



PFM321D DC12V1A Power Adapter



LR1002-1ET/1EC Single-port long reach ethernet over coax extender



PFM900-E Integrated Mount tester



PFM114 TLC SD card

