



DH-IPC-HFW5449T1-ASE-D2

4 MP Dual Lens Fixed-focal Bullet WizMind Full-color Network Camera







Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, NVR, PTZ, XVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, WizMind provides precise, reliable and comprehensive AI solutions for verticals.

Series Overview

With starlight solution and deep learning algorithm, Dahua WizMind 5 Series network camera has various intelligent functions, including face capture, perimeter protection and people counting, which greatly improve the accuracy of video analysis. The series camera supports dust-proof function, waterproof function and vandal-proof function, complying with the standards of IP67 and IK10 (Supported by some select models).

Functions

Face Detection

Dahua Face Detection technology can detect the face in the image. With deep learning algorithm, the technology supports detecting, tracking, capturing and selecting the best face image, and then outputs face snapshot.

Perimeter Protection

With deep learning algorithm, Dahua Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

Multi-spectrum Fusion

Dahua Multi-Spectrum Fusion technology extracts the details and brightness of the visible spectrum and infrared spectrum to make the fusion brightness close to the visible light brightness, so that the camera provides a better image.

- · Dual AI sensors with multi-spectral imaging technology that produces colorful images in low illumination conditions.
- · Outputs max. 4 MP (2688 × 1520)@25/30 fps.
- · Built-in warm light/IR LED, with a maximum illumination distance of
- · ROI, SMART H.264+/H.265+, AI 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.
- · Intelligent monitoring: Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); abandoned object, missing object, loitering detection, people gathering, and parking detection.
- · Face detection: Track, snapshot, snapshot optimization, optimal face snapshot upload, face enhancement, and face exposure.
- · People counting: Queue management, people counting in area, entered/exited people counting, and generating and exporting report (day/month/year).
- · Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card; built-in Mic and speaker, support two-way talk.
- · 12 VDC/PoE power supply.
- · IP67 protection.











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.

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 ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

| Technical S | specification | | | | | | SMD 3.0 | Less false alarm, longer detection distance |
|----------------------------|----------------------------|---|---|----------------------|----------------------|------------------|--|--|
| Camera | | | | | | | | Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 face attributes (gender, age, glasses, expressions, mask, and beard) and 8 expressions (angry, sad, disgusted, scared, surprised, calm, happy, confused); face snapshot set as face, one-inch photo or custom; 3 snapshot strategies (real-time snapshot, optimization snapshot and quality first); face angle filter; |
| Image Sensor | | 1/1.8" + 1/1.8" CMOS | | | | | | |
| Max. Resolution | | 2688 (H) × 1520 (V) | | | | | Face Detection | |
| ROM | | 128 MB | | | | | | |
| RAM | | 1 GB | 1 GB | | | | | |
| Scanning System | | Progressive | Progressive | | | | | optimization time setting |
| Electronic Shutter Speed | | Auto/Manua | Auto/Manual 1/3 s–1/100,000 s | | | | | Support the counting of enter number, leave number and pass number, and displaying and |
| Min. Illumination | | 0.0002 lux @F1.0 | | | | People Counting | outputting yearly/monthly/daily reports. Support the counting of number in area, and 4 rules configuration. Count number of people or stay time | |
| S/N Ratio | | >56 dB | | | | | reopie counting | and link alarm. Support queue management, and 4 rules configuration. Count number of people or stay time and link alarm. |
| Illumination Distance | | 50 m (164.0 | 50 m (164.04 ft) | | | | | |
| Illuminator Or | • | | Auto; manual | | | | Intelligent Search | Work together with Smart NVR to perform refine intelligent search, event extraction and merging to |
| Illuminator Nu | imber | | 4 (IR light); 2 (warm light) | | | | event videos | |
| Pan/Tilt/Rotat | tion Range | Pan: 0°–360 Tilt: 0°–90° | | | | | Video | H 265 H 264 H 264B MIRES (Only assessment of but |
| | | Rotation: 0° | Rotation: 0°–360° | | | | Video Compression | H.265; H.264; H.264B; MJPEG (Only supported by the sub stream) |
| Lens | | | | | | | Smart Codec | Smart H.265+; Smart H.264+ |
| Lens Type | | Fixed-focal | Fixed-focal | | | | Al Coding | AI H.265; AI H.264 |
| Lens Mount | | M16 2.8 mm; 3.6 | M16 2.8 mm; 3.6 mm; 6 mm | | | | Video Frame Rate | Main stream: 2688 × 1520@(1–25/30 fps) Sub stream: 704 × 576@(1–25 fps)/704 × 480@ (1–30 fps) Third stream: 1920 × 1080@(1–25/30 fps) *The values above are the max. frame rates of each |
| Max. Aperture | Focal Length May Aperture | | F1.0 | | | | | |
| | | 2.8 mm: Hoi | 2.8 mm: Horizontal: 97°; Vertical: 48°; Diagonal: | | | | | stream; for multiple streams, the values will be subjected to the total encoding capacity. |
| Field of View | | 3.6 mm: Hoi | 3.6 mm: Horizontal: 75°; Vertical: 39°; Diagonal: 87° 6 mm: Horizontal: 47°; Vertical: 25°; Diagonal: 56° | | | | Stream Capability | 3 streams |
| Iris Control | | Fixed | Fixed | | | | Resolution | 4M (2688 × 1520); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × |
| Close Focus Distance | | 3.6 mm: 5 m | 2.8 mm: 4 m (13.1 ft) 3.6 mm: 5 m (16.4 ft) | | | | | 480); VGA (640 × 480); CIF (352 × 288/352 × 240) |
| | Lens | 6 mm: 6 m (19.7 ft) | | | | Bit Rate Control | CBR/VBR | |
| | | Detect 58.2 m | Observe 23.3 m | Recognize | Identify 5.8 m | | Video Bit Rate | H.264: 32 kbps–8192 kbps H.265: 19 kbps–8192 kbps |
| DORI | 2.8 mm | (190.94 ft) | (76.44 ft) | (38.06 ft) | (19.03 ft) | | Day/Night | Color/B/W |
| Distance | 3.6 mm | 70.3 m (230.64 ft) | 28.1 m (92.19 ft) | 14.1 m (46.26 ft) | 7.0 m (22.97 ft) | | BLC | Yes |
| | 6 mm | 116.1 m (380.91 ft) | 46.5 m (152.56 ft) | 23.2 m (76.12 ft) | 11.6 m (38.06 ft) | | HLC | Yes |
| Smart event | | | (22.22.4) | | | | WDR | DWDR |
| IVS | | Abandoned | Abandoned object; missing object | | | | White Balance | Auto; natural; street lamp; outdoor; manual; regional custom |
| Heat Map | | Yes | | | | | Gain Control | Auto; manual |
| Professional, intelligent | | | | | | | Noise Reduction | 3D NR |
| | | | Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection | | | | Motion Detection | OFF/ON (4 areas, rectangular) |
| IVS (Perimeter Protection) | | of vehicle and human); loitering detection; people gathering; parking detection | | | | | Region of Interest (RoI) | Yes (4 areas) |
| | | 54.7cm (8) p | Same into parking account | | | | Image Rotation | 0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower) |
| | | | | | | | | |

| Mirror | Yes |
|---------------------|---|
| Privacy Masking | 4 areas |
| Audio | |
| Built-in MIC | Yes |
| Audio Compression | PCM; G.711a; G.711Mu; G.726; G.723 |
| Alarm | |
| Alarm Event | No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; voltage detection; face detection; people counting in area; stay detection; people counting; people number error detection; security exception; defocus detection; people number alarm; queue time alarm |
| Network | |
| Network Port | RJ-45 (10/100 Enhancement Base-T) |
| SDK and API | Yes |
| Cyber Security | Video encryption; configuration encryption; 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; DDNS |
| Interoperability | ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P |
| Storage | FTP; SFTP; Micro SD card (support max. 256 G); NAS |
| Browser | IE: IE8, IE9, IE11 Chrome Firefox |
| Management Software | Smart PSS; DSS; DMSS |
| Mobile Client | iOS; Android |
| Certification | |
| Certifications | CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368- 1-14 |
| Port | |
| Audio Input | 1 channel (RCA port) |
| Audio Output | 1 channel (RCA port) |
| Alarm Input | 1 channel in: 5 mA 3 V–5 VDC |
| Alarm Output | 1 channel out: 300 mA 12 VDC |
| Power | |
| Power Supply | 12 VDC (±30%); PoE (802.3af); ePoE |
| Power Consumption | Basic: 3.4 W (12 VDC); 4.5 W (PoE) Max. (H.265+IR and Warm light on): 9.9 W (12 VDC); 11.8 W (PoE) |

| 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 | Metal |
|--------------------|---|
| Product Dimensions | 288.4 mm \times 94.4 mm \times 84.7 mm (11.35" \times 3.72" \times 3.33") (L \times W \times H) |
| Net Weight | 1.0 kg (2.20 lb) |
| Gross Weight | 1.23 kg (2.71 lb) |

| Ordering Information | | | | | |
|------------------------|--|---|--|--|--|
| Туре | Part Number | Description | | | |
| | DH-IPC- HFW5449T1P-ASE- D2-0280B | 4 MP Dual Lens Fixed-focal Bullet WizMind Full- color Network Camera | | | |
| | DH-IPC- HFW5449T1P-ASE- D2-0360B | 4 MP Dual Lens Fixed-focal Bullet WizMind Full- color Network Camera | | | |
| 4 MP Camera | DH-IPC- HFW5449T1P-ASE- D2-0600B | 4 MP Dual Lens Fixed-focal Bullet WizMind Full- color Network Camera | | | |
| | IPC-HFW5449T1P- ASE-D2-0280B | 4 MP Dual Lens Fixed-focal Bullet WizMind Full- color Network Camera | | | |
| | IPC-HFW5449T1P- ASE-D2-0360B | 4 MP Dual Lens Fixed-focal Bullet WizMind Full- color Network Camera | | | |
| | IPC-HFW5449T1P- ASE-D2-0600B | 4 MP Dual Lens Fixed-focal Bullet WizMind Full- color Network Camera | | | |
| | PFA130-E | Junction Box | | | |
| | PFA152-E | Pole Mount | | | |
| Accessories (Optional) | PFM321D | 12 VDC 1A Power Adapter | | | |
| | PFM900-E | Integrated Mount Tester | | | |
| | TF-P100 | MicroSD Memory Card | | | |

Accessories

Optional:







PFA152-E Pole Mount



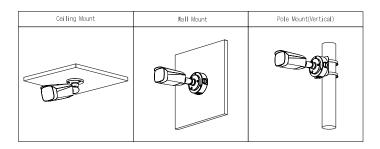
PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

