

# DH-IPC-HDW5449TM-SE-LED

4MP Full-color Fixed-focal Warm LED Eyeball WizMind Network Camera



- 4MP 1/1.8" CMOS image sensor, low illuminance, high image definition.
- Outputs max. 4MP (2688 × 1520) @30 fps.
- Built-in warm 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.
- Supports max. 256 G Micro SD card, Built-in Mic.
- 12V DC/PoE power supply.
- ePoE, IP67 protection.
- SMD 3.0.



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 (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.

### Face Attributes

With deep learning algorithm, the network camera can recognize face attributes, such as gender, age, expression, glasses, mouth mask, and beard.

### 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.

### People Counting

With deep learning algorithm, Dahua People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs yearly/monthly/daily reports to meet your requirements.

### 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 work 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               | 1/1.8" CMOS                                       |
| Max. Resolution            | 2688 (H) × 1520 (V)                               |
| ROM                        | 128 MB  |
| RAM                        | 512 MB  |
| Scanning System            | Progressive                                       |
| Electronic Shutter Speed   | Auto/Manual 1/3 s–1/100,000 s                     |
| Min. Illumination          | 0.0005 Lux@F1.0 (Color, 30IRE)                    |
| S/N Ratio                  | > 56 dB   |
| Illumination Distance      | 30 m (98.4 ft)                                    |
| Illuminator On/Off Control | Auto; manual                                      |
| Illuminator Number         | 2 (Smart Warm light)                              |
| Pan/Tilt/Rotation Range    | Pan: 0°–360°<br>Tilt: 0°–78°<br>Rotation: 0°–360° |

#### Lens

|                      |   |                   |                  |                  |                 |
|----------------------|---|-------------------|------------------|------------------|-----------------|
| Lens Type            | Fixed-focal   |                   |                  |                  |                 |
| Lens Mount           | M16   |                   |                  |                  |                 |
| Focal Length         | 2.8 mm; 3.6 mm  |                   |                  |                  |                 |
| Max. Aperture        | F1.0  |                   |                  |                  |                 |
| Field of View        | 2.8 mm: Horizontal 107°; Vertical 60°; Diagonal 135°<br>3.6 mm: Horizontal 95°; Vertical 51°; Diagonal 116° |                   |                  |                  |                 |
| Iris Control         | Fixed   |                   |                  |                  |                 |
| Close Focus Distance | 2.8 mm: 1.6 m (5.2 ft)<br>3.6 mm: 2.6 m (8.5 ft)  |                   |                  |                  |                 |
| DORI Distance        | Lens  | Detect            | Observe          | Recognize        | Identify        |
|                      | 2.8 mm  | 58.2 m (190.9 ft) | 23.3 m (76.4 ft) | 11.6 m (38.1 ft) | 5.8 m (19.0 ft) |
|                      | 3.6 mm  | 70.3 m (230.6 ft) | 28.1 m (92.2 ft) | 14.1 m (46.3 ft) | 7.0 m (23.0 ft) |

#### Smart Event

|          |                                  |
|----------|----------------------------------|
| IVS      | Abandoned object; missing object |
| Heat Map | Yes                              |

#### Professional, intelligent

|                            |   |
|----------------------------|---|
| IVS (Perimeter Protection) | Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection   |
| Face Detection             | Face detection; track; snapshot optimization; snapshot; face enhancement; face exposure; face matting setting: face, single inch photo; three snapshot methods: real-time snapshot, optimized snapshot, quality priority snapshot; face angle filter; optimization time setting |

|                    |   |
|--------------------|---|
| People Counting    | Support the counting of enter number, leave number and pass number, and displaying and outputting yearly/monthly/daily reports.<br>Support the counting of number in area, and 4 rules configuration. Count number of people or stay time and link alarm.<br>Support queue management, and 4 rules configuration. Count number of people or stay time and link alarm. |
| Intelligent Search | Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.  |

#### Audio

|                     |   |
|---------------------|---|
| Built-in MIC        | Yes   |
| Audio Compression   | PCM; G.711a; G.711Mu; G.726; G.723                                |
| Audio Sampling Rate | 8KHz /16KHz /32KHz /44.1KHz /48KHz                                |
| Audio Bit Rate      | 65Kbs ( G.711 ulaw/G.711 alaw/G.722.1 /G.726/MP 2LPCM/ to 192 kbs |

#### Video


|                          |  |
|--------------------------|--|
| Video Compression        | H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream) Support Third Stream H.265/H.264  |
| H.265 Type               | Main Profile   |
| Smart Codec              | Smart H.265+/H.264+  |
| Video Frame Rate         | Main stream: 2688 × 1520 (1 fps–25/30 fps)<br>Sub stream: D1 (1 fps–25/30 fps)<br>Third stream: 1080p (1 fps–25/30 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        | 3 streams  |
| Resolution               | 4M (2688 × 1520); 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: 3 kbps–20480 kbps<br>H.265: 3 kbps–20480 kbps   |
| Day/Night                | Color/B/W  |
| BLC                      | Yes  |
| HLC                      | Yes  |
| WDR                      | 140 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)  |
| Image Parameters Switch  | Yes  |

|                       |  |
|-----------------------|--|
| Mirror                | Yes  |
| Privacy Masking       | 8 areas  |
| <b>Alarm</b>          |  |
| Alarm Event           | No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; scene changing; intrusion; tripwire; abandoned object; missing object; fast moving; parking detection; loitering detection; people gathering; input abnormal detection; intensity change detection; people counting; face detection; people counting in area; stay alarm; people No. exception detection; queue management |
| <b>Network</b>        |  |
| Network Port          | RJ-45 (10/100 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   |
| Softower Reset        | Yes  |
| Network Protocol      | IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; 802.1x; SNMP  |
| Interoperability      | ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; P2P   |
| User/Host             | 20 (Total bandwidth: 80 M)   |
| Storage               | NAS MicroSD/SDHC/SDXC card (Minimum 256 GB) local storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR)   |
| Browser               | IE: IE8 and later<br>Chrome<br>Firefox   |
| <b>Certification</b>  |  |
| Certifications        | CE-LVD: EN62368-1<br>CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU<br>FCC: 47 CFR FCC Part 15, Subpart B<br>UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07   |
| <b>Power</b>          |  |
| Power Supply          | 12V DC (±30%)/PoE (802.3af)/ePoE   |
| Power Consumption     | Basic: 2.4 W (12 VDC); 3 W (PoE)<br>Max. (H.265 + 3 streams + intelligence + LED): 6.5 W (12 VDC); 7.2 W (PoE)   |
| <b>Environment</b>    |  |
| Operating Temperature | -40°C to +60°C (-40°F to +140°F)/Less than 95% RH  |
| Surge Protection      | 2KV  |
| Storage Temperature   | -40°C to +60°C (-40°F to +140°F)   |
| Protection            | IP67   |


| Ordering Information   |                                |   |
|------------------------|--------------------------------|---|
| Type                   | Model                          | Description   |
| 4 MP Camera            | DH-IPC-HDW5449TMP-SE-LED-0280B | 4 MP Full-color Fixed-focal Warm LED Eyeball WizMind Network Camera, WDR, PAL |
|                        | DH-IPC-HDW5449TMP-SE-LED-0360B | 4 MP Full-color Fixed-focal Warm LED Eyeball WizMind Network Camera, WDR, PAL |
|                        | IPC-HDW5449TMP-SE-LED-0280B    | 4MP Full-color Fixed-focal Warm LED Eyeball WizMind Network Camera, WDR, PAL  |
|                        | IPC-HDW5449TMP-SE-LED-0360B    | 4MP Full-color Fixed-focal Warm LED Eyeball WizMind Network Camera, WDR, PAL  |
| Accessories (Optional) | PFA130-E                       | Junction Box Bracket  |
|                        | PFA109                         | Mount Adapter   |
|                        | PFB220C                        | Celling Mount Bracket   |
|                        | PFB205W                        | Wall Mount Bracket  |
|                        | PFA152-E                       | Pole Mount Bracket  |
|                        | PFM321D                        | 12 VDC 1A Power Adapter   |
|                        | LR1002-1ET/1EC                 | Single-port Long Reach Ethernet over Coax Extender                            |
|                        | PFM900-E                       | Integrated Mount Tester   |
| PFM114                 | TLC SD Card                    |   |

**Accessories**


**Optional**




PFA130-E  
Junction Box Bracket




PFA109  
Mount Adapter




PFB220C  
Celling Mount Bracket




PFB205W  
Wall Mount Bracket




PFA152-E  
Pole Mount Bracket




PFM321D  
12V DC 1 A Power Adapter



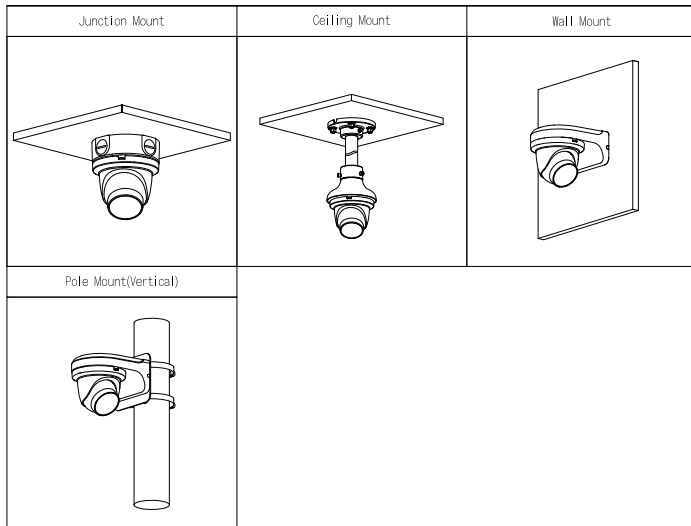
LR1002-1ET/1EC  
Single-port Long Reach Ethernet over Coax Extender



PFM900-E  
Integrated Mount Tester



PFM114  
TLC SD Card



**Dimensions (mm[inch])**

