



DH-IPC-HDBW5842E-Z4E-S2

8 MP IR Vari-focal Dome WizMind 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.

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.

- 8-MP 1/1.8" CMOS image sensor, low luminance, and high definition
- Outputs max. 8MP (3840× 2160) @30 fps.
- · Max. IR distance: 80 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.
- · Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card
- 24V AC/PoE/12V DC power supply.
- ePoE, IP67, IK10 protection.
- SMD 3.0.













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.

Dahua's innovative ePoE technology offers a new solution to transmit power and data over long distances between cameras and network switch, allowing more flexible design of surveillance system, improving reliability, reducing installation time and saving money. ePoE technology encompasses pure network systems where a single CAT6 cable can carry signals up to 300 m (984 ft) at 100 Mbps, 800 m (2625 ft) at 10 Mbps.

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, IK10, 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.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). 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 Specification | | | | | | | | Support the counting of enter number, leave number and pass number, and displaying and outputting yearly/ |
|----------------------------|----------------|---|-----------------------|-----------------------|----------------------|------------------|--|--|
| Camera | | | | | | | | monthly/daily reports. Support the counting of number in area, and 4 rules configuration. Count number of people or stay time and link alarm. |
| Image Sensor | | 1/1.8"CMOS | | | | | People Counting | |
| Max. Resolution | | 3840 (H) × 2160 (V) | | | | | Support queue management, and 4 rules configuration. Count number of people or stay time and link alarm. | |
| ROM | | 128 MB | | | | | Intelligent Search | Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event |
| RAM | | 1 GB | | | | | Vida | videos. |
| Scanning System | | Progressive | | | | | Video | H.265; H.264; H.264H; H.264B; MJPEG (Only supported |
| Electronic Shutter Speed | | Auto/Manual 1/3 s-1/100,000 s | | | | | Video Compression | by the sub stream) |
| Min. Illumination | | 0.004 lux@F1.4 (Color, 30 IRE) 0.0004 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on) | | | | | Smart Codec | Smart H.265+/H.264+ Main stream: 3840× 2160 (1 fps-25/30 fps) |
| S/N Ratio | | >56 dB | | | | | Video Frame Rate | Sub stream: D1 (1 fps–25/30 fps) Third stream: 1080p (1 fps–25/30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity. |
| Illumination Distance | | 80 m (262.5 ft) | | | | | | |
| Illuminator C | On/Off Control | Auto; manual; zoomprio | | | | | Stream Capability | 3 streams |
| Illuminator N | Number | 3 (IR) | | | | | | 3840 × 2160; 3072 × 2048; 3072 × 1728; 2592 × 1944; |
| Pan/Tilt/Rotation Range | | Pan: 0°-355° Tilt: 0°-80° | | | | | Resolution | 2688 × 1520; 2048 × 1536; 2304 × 1296; 1080p (1920 × 1080); 1.3 MB (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240) |
| | | Rotation: 0°–355° | | | | | Bit Rate Control | CBR/VBR |
| Lens Lens Type | | Motorized vari-focal | | | | | Video Bit Rate | H.264: 3 kbps-20480 kbps H.265: 3 kbps-20480 kbps |
| | | | | | | | Day/Night | Auto (ICR)/Color/B/W |
| Mount Type | | Module | | | | | BLC | Yes |
| Focal Length | | 8 mm-32 mm | | | | | HLC | Yes |
| Max. Aperture | | F1.4 (Constant) | | | | | WDR | 120 dB |
| Field of View | | Horizontal: 42°-14.9° Vertical: 23.3°-8.6° Diagonal: 48.5°-16.9° | | | | | White Balance | Auto; natural; street lamp; outdoor; manual; regional custom |
| Iris Control | | Auto | | | | | Gain Control | Auto; manual |
| Class Farma Bistones | | W: 3.0 m (9.84 ft) | | | | | Noise Reduction | 3D NR |
| Close Focus Distance | | T: 5.5 m (18.04 ft) | | | | Motion Detection | OFF/ON (4 areas, rectangular) | |
| | Lens | Detect | Observe | Recognize | Identify | | Region of Interest (RoI) | Yes (4 areas) |
| DORI Distance | W | 213.6 m (700.8 ft) | 85.4 m (280.2 ft) | 42.7 m (140.1 ft) | 21.4 m (70.2 ft) | | Image Stabilization | Electronic Image Stabilization (EIS) |
| | Т | 572.8 m (1879.3 ft) | 229.1 m (751.6 ft) | 114.6 m (376.0 ft) | 70.2 m (188.0 ft) | | Defog | Yes |
| Smart Event | | (1079.5 11) (751.0 11) (370.0 11) (106.0 11) | | | | | Image Rotation | $0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 4 M resolution and lower) |
| IVS | | Abandoned object; moving object | | | | | Mirror | Yes |
| Heat Map | | Yes | | | | | Privacy Masking | 8 areas |
| Professional, intelligent | | | | Audio | | | | |
| Troicssional, intellige | | Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection | | | | | Audio Compression | PCM; G.711a; G.711Mu; G.726; G.723 |
| IVS (Perimeter Protection) | | | | | | | Alarm | No SD card; SD card full; SD card error; network |
| 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 | | | | | Alarm Event | disconnection; IP conflict; illegal access; motion detection; video tampering; defocus detection; 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 |



| Network | | | | |
|-----------------------|---|--|--|--|
| 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 | | | |
| 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 | FTP; SFTP; Micro SD card (Support max. 256 G); NAS | | | |
| Browser | IE: IE8 and later 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: UL60950-1 CAN/CSA C22.2 No.60950-1-07 | | | |
| Port | | | | |
| Audio Input | 1 channel (terminal) | | | |
| Audio Output | 1 channel (terminal) | | | |
| Alarm Input | 1 channels in: 5 mA 5 VDC | | | |
| Alarm Output | 1 channels out: 300 mA 12 VDC | | | |
| Alarm Output | 2 channels out: 1,000 mA 30 VDC/500 mA 50 VDC | | | |
| Power | | | | |
| Power Supply | 12 VDC (±25%)/24 VAC (±30%)/PoE (802.3af)/ePoE | | | |
| Power Consumption | Basic power consumption: 5.1 W (12V DC); 5.0 W (24 VAC); 5.7 W (PoE) Max. power consumption (H.265 + max. stream + intelligent function + IR LED + focus): 12.8 W (12 VDC); 12.3 W (24 VAC); 12.5 W (PoE) | | | |
| Environment | | | | |
| Operating Temperature | −30 °C to +60 °C (−22 °F to +140 °F)/Less than 95% RH | | | |
| Storage Temperature | −30 °C to +60 °C (−22 °F to +140 °F) | | | |
| Protection | IP67, IK10 | | | |
| | | | | |

Structure

| Casing | Metal, plastic | | |
|--------------------|--------------------------------------|--|--|
| Product Dimensions | Ф159.1 mm × 118.1 mm (6.26" × 4.65") | | |
| Net Weight | 0.95 kg (2.09 lb) | | |
| Gross Weight | 1.20 kg (2.65 lb) | | |

| Ordering Information | | | | | | |
|------------------------|--|--|--|--|--|--|
| Туре | Model | Description | | | | |
| 8MP Camera | DH-IPC-HDBW5842EP-ZE- 0832-DC12AC24V-S2 | 8 MP IR Vari-focal Dome WizMind Network Camera, PAL | | | | |
| SIVIP Camera | IPC-HDBW5842EP-ZE-0832- DC12AC24V-S2 | 8 MP IR Vari-focal Dome WizMind Network Camera, PAL | | | | |
| | PFA138 | Junction Box Bracket | | | | |
| | PFB210W | Wall Mount Bracket | | | | |
| | PFB300C | Ceiling Mount Bracket | | | | |
| | PFA152-E | Pole Mount Bracket | | | | |
| Accessories (Optional) | PFB201C | In-ceiling Mount Bracket | | | | |
| | PFA101 | Mount Adapter | | | | |
| | PFM321D | 12 VDC 1A Power Adapter | | | | |
| | LR1002-1ET/1EC | Single-port Long Reach Ethernet over Coax Extender | | | | |
| | PFM900-E | Integrated Mount Tester | | | | |

Accessories

Optional:



PFA138 Junction Box Bracket



PFB210W Wall Mount Bracket



PFB300C Ceiling Mount Bracket



PFA152-E Pole Mount Bracket



PFB201C In-ceiling Mount Bracket



PFA101 Mount Adapter



PFM321D 12 VDC 1A Power Adapter



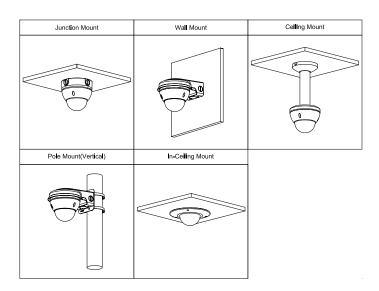
LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extenderqq



PFM900-E Integrated Mount Tester







Dimensions (mm[inch])

