



DH-IPC-HDW5849H-ASE-LED

8MP Full-color Fixed-focal Warm LED Eyeball 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 full color solution and deep learning algorithm, Dahua WizMind 5 Series network camera has various intelligent functions, including video metadata, face detection, perimeter protection and people counting, etc. 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.

Video Metadata

With deep learning algorithm, Dahua Video Metadata technology can detect, track, capture vehicle, non-motor vehicle and people, and select the best images, and extract attributes.

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.

*The parameters and datasheets below can only be applied to 5849-ASE-S2 series.

- · 8-MP 1/1.2" CMOS image sensor, low illuminance, high image
- · Outputs max. 8 MP (3840 × 2160) @30 fps.
- · Built-in warm light and the max. illumination distance is 50 m.
- · ROI, SVC, SMART H.264 +/H.265+, AI 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.
- · With deep learning algorithm, it supports: video metadata,IVS, face detection, smart object detection, and people counting, etc.
- · Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 512 G Micro SD card, built-in dual Mic.
- · 12 VDC/PoE power supply; ePoE.
- · IP67 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

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 normally 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.

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.

| Technical Specification | | | | | | | | Tripwire people counting and people counting |
|----------------------------|--------|--|--|----------------------|---------------------|--|-----------------------------|--|
| Camera | • | | | | | | People Counting | in area; generating and exporting report (day/ month/year); 4 rules can be set for tripwire, people |
| Image Sensor | | 1/1.2" CMOS | | | | | | counting in area and queue management. |
| Max. Resolution | | 3840 (H) × 2160 (V) | | | | | Heat Map | Yes |
| ROM | | 256 MB | | | | | Video Metadata | Motor vehicle, non-motor vehicle, face, and human body detection; snapshot; snapshot optimization; optimal face snapshot upload. Extraction of motor vehicle and non-motor vehicle attributes: extracts 6 attributes for motor vehicle and 6 attributes for non-motor vehicle. Extraction of face and human body attributes: extracts 6 attributes for face and 8 attributes for human body. |
| RAM | | 2 GB | | | | | | |
| Scanning System | | Progressive | | | | | | |
| Electronic Shutter Speed | | Auto/Manual 1/3 s–1/100,000 s | | | | | | |
| Min. Illumination | | 0.0005 lux@F1.0 | | | | | | human body. Work together with Smart NVR to perform refine |
| S/N Ratio | | >56 dB | | | | | Smart Search | intelligent search, event extraction and merging to event videos |
| Illumination Distance | | Up to 50 m (164.04 ft) | | | | | Video | |
| Illuminator On/Off Control | | Auto; Manual | | | | | Video Compression | H.265; H.264; H.264H; H.264B; MJPEG (Only |
| Illuminator Number | | 2 (Warm light) | | | | | Smart Codec | supported by the sub stream) Smart H.265+; Smart H.264+ |
| Angle Adjustm | ent | Pan: 0°–360 Tilt: 0°–78° | • | | | | Al Coding | AI H.265; AI H.264 |
| | | Rotation: 0°–360° | | | | | Ai Counig | Main stream: 3840 × 2160@(1–25/30 fps) |
| Lens | | | | | | | | Sub stream: D1@(1–25/30 fps) Third stream: 1080p@(1–25/30 fps) |
| Lens Type | | Fixed-focal M22 | | | | | Video Frame Rate | *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity. |
| Lens Mount Focal Length | | 2.8 mm; 3.6 mm | | | | | Stream Capability | 3 streams |
| Max. Aperture | | F1.0 | | | | | | 8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × |
| Field of View | | 2.8 mm: H: 102°; V: 53°; D: 125° 3.6 mm: H: 88°; V: 48°; D: 104° | | | | | Resolution | 1728/2592 × 1944); 4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048 × 1536); 2M (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) |
| Iris Control | | Fixed | | | | | Bit Rate Control | CBR/VBR |
| Close Focus Distance | | 2.8 mm: 5 m (16.40 ft) 3.6 mm: 6 m (19.68 ft) | | | | | | H.264: 32 kbps–16384 kbps |
| | Lens | Detect | Observe | Recognize | Identify | | Video Bit Rate | H.265: 32 kbps–16384 kbps |
| DORI | 2.8 mm | 95.6m (313.64 ft) | 38.2 m (125.33 ft) | 19.1 m (62.66 ft) | 9.6 m (31.50 ft) | | Day/Night | Color/B/W |
| Distance | 3.6 mm | 105.9 m | 42.4 m | 21.2 m | 10.6 m | | BLC | Yes |
| | | (347.44 ft) | (139.11 ft) | (68.55 ft) | (34.77 ft) | | HLC | Yes |
| Smart event | | | | | ee functions | | WDR | 140 dB |
| IVS (Perimeter Protection) | | Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection | | | | | Scene Self-adaptation (SSA) | Yes |
| | | | | | | | White Balance | Auto; natural; street lamp; outdoor; manual; regional custom |
| Smart Object Detection | | Smart abandoned object; smart missing object | | | | | Gain Control | Auto/Manual |
| SMD | | SMD 3.0 | | | | | Noise Reduction | 3D NR |
| AcuPick | | Uses deep learning algorithms and works with back- end devices to accurately match targets, such as people and motor vehicles, and search through live and recorded videos to quickly locate targets. | | | | | Motion Detection | OFF/ON (4 areas, rectangular) |
| | | | | | | | Region of Interest (RoI) | Yes (4 areas) |
| | | Face detection; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; | | | | | Defog | Yes |
| Face Detection | | 6 attributes | re; face attrib and 8 express inch photo; sr | sions; face sna | pshot set as | | Image Rotation | $0^{\circ}\!/90^{\circ}\!/180^{\circ}\!/270^{\circ}$ (Support $90^{\circ}\!/270^{\circ}$ with 4M resolution and lower) |
| | | time snapsh | ot, quality pridace angle filte | ority and opti | mization | | Mirror | Yes |
| | | | | | | | | |

| Privacy Masking | 4 areas | | | | | |
|---------------------|--|--|--|--|--|--|
| LDC | Yes | | | | | |
| Audio | | | | | | |
| Built-in MIC | Yes, built-in dual Mic | | | | | |
| 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; scene changing; audio detection; voltage detection; external alarm; face detection; SMD; security exception; people detection; area people counting; stay alarm; people counting; people number exception detection | | | | | |
| Network | | | | | | |
| Network Port | RJ-45 (10/100 Base-T) | | | | | |
| SDK and API | Yes | | | | | |
| 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; SNMP; P2P | | | | | |
| Interoperability | ONVIF (Profile S; Profile G; Profile T); CGI | | | | | |
| User/Host | 20 (Total bandwidth: 80 M) | | | | | |
| Storage | FTP;SFTP; Micro SD card (support max. 512 GB); NAS | | | | | |
| Browser | IE: IE 11 and later Chrome: Chrome 45 and later Firefox: Firefox 46 and later Safari: Safari 12 and later | | | | | |
| Management Software | SmartPSS Lite; DSS; DMSS | | | | | |
| Mobile Client | iOS; Android | | | | | |
| Cyber Security | Video encryption; firmware encryption; configuration 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 | | | | | |
| Certification | | | | | | |
| Certifications | CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU | | | | | |
| Port | | | | | | |
| Audio Input | 1 channel (RCA port) | | | | | |
| Audio Output | 1 channel (RCA port) | | | | | |
| Alarm Input | 1 channel in: wet contact, 5mA 3V–5V DC | | | | | |
| Alarm Output | 1 channel out: wet contact, 300mA 12V DC | | | | | |
| Power | | | | | | |
| Power Supply | 12 VDC/POE (802.3af)/ePoE | | | | | |
| Dual Power Backup | When the power adapter and PoE provide power at the same time, disconnect one of them. The device will continue to work, but will not restart. | | | | | |

| Power Consumption | Basic: 3.6 W (12 VDC); 5 W (PoE) Max. (H.265+ warm light+ intelligence on + 3 streams): 7.9 W (12 VDC); 9.6 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) | | |
| Storage Humidity | 10%–95% (RH), non-condensing | | |
| Protection | IP67 | | |
| Structure | | | |
| Casing Material | Inner core: metal Cover: metal | | |
| Product Dimensions | Φ122 mm × 119.7 mm (4.80" × Φ4.71") | | |
| Net Weight | 740g (1.63 lb) | | |
| Gross Weight | 960g (2.12 lb) | | |

| Ordering Information | | | | | | | |
|----------------------|---------------------------------|---|--|--|--|--|--|
| Туре | Part Number | Description | | | | | |
| 8MP Camera | DH-IPC- HDW5849H-ASE- LED | 8MP Full-color Fixed-focal Warm LED Eyeball WizMind Network Camera | | | | | |
| | IPC-HDW5849H- ASE-LED | 8MP Full-color Fixed-focal Warm LED Eyeball WizMind Network Camera | | | | | |
| | PFA130-E | Water-proof Junction Box | | | | | |
| | PFB205W-E | Wall Mount Bracket | | | | | |
| | PFA157 | Pole Mount Bracket | | | | | |
| Accessories | PFA109 | Mount Adapter | | | | | |
| (Optional) | PFB220C | Ceiling Mount Bracket | | | | | |
| | PFM321D | 12 VDC 1A Power Adapter | | | | | |
| | PFM900-E | Integrated Mount Tester | | | | | |
| | TF-P100 | MicroSD Memory Card | | | | | |

Accessories

Dimensions (mm[inch])

Optional:



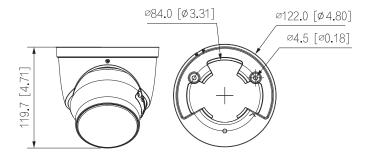
PFA130-E Water-proof Junction Box



PFB205W-E Wall Mount Bracket



PFA157 Pole Mount Bracket





PFA109 Mount Adapter



PFB220C Ceiling Mount Bracket



PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card

