

DH-IPC-HDW5842TM-ASE

8MP IR Fixed-focal Eyeball WizMind Network Camera





Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, IVSS,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 Al solutions for verticals.

Series Overview

Driven by deep learning algorithms. Dahua WizMind S Series network camera offers a variety of intelligent functions that greatly improve the accuracy of audio and video analysis. It supports video metadata, smart sound detection, face detection, perimeter protection, people counting and more. The camera also adopts advanced image processing AI ISP technology and has the Deeplight night vision effect. The camera is dustproof, waterproof and vandal-proof, and is certified as IP67 and IK10 (the type of protection varies depending on the model).

Functions

AI-ISP

With AI ISP technology, the camera is able to easily adapt to scenes, producing high quality images that reveal the fine details of targets.

Self-Learning

Empowered by deep learning technology, the device recognizes different types of targets and their statuses through learning and analyzing target features to detect targets and filter out false alarms.

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.

AcuPick

This industry-leading search technology effectively utilizes both frontend and back-end intelligence to help with searching through massive video data to quickly and conveniently locate targets with greater precision.

- * The parameters and datasheets below can only be applied to 5842-ASE-S3 series.
- 8-MP 1/1.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 8 MP (3840×2160) @25/30fps.
- Built-in IR LED, and the max. illumination distance is 50 m.
- ROI, SVC, SMART H.264+/H.265+, AI H.264/H.265, encoding after filter, 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, smart sound detection, IVS, face detection, smart object detection, and people counting, etc.
- · Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 1 TB Micro SD card. built-in 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 reports to meet your requirements.

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.

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.

Technical Specification

| Camera | | | | | | |
|----------------------------|--------|---|-----------------------|----------------------|----------------------|--|
| Image Sensor | | 1/1.8" CMOS | | | | |
| Max. Resolution | | 3840 (H) × 2160 (V) | | | | |
| ROM | | 4 GB | | | | |
| RAM | | 2 GB | | | | |
| Scanning System | | Progressive | | | | |
| Electronic Shutter Speed | | Auto/Manual 1/3 s-1/100,000 s | | | | |
| Min. Illumination | | 0.0008 lux@F1.6 (Color, 30 IRE) 0.0004 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on) | | | | |
| S/N Ratio | | >56 dB | | | | |
| Illumination Distance | | Up to 50 m (164.04 ft) (IR) | | | | |
| Illuminator On/Off Control | | Auto;Manual | | | | |
| Illuminator Number | | 2 (IR LED) | | | | |
| Angle Adjustment | | Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360° | | | | |
| Lens | | | | | | |
| Lens Type | | Fixed-focal | | | | |
| Lens Mount | | M16 | | | | |
| Focal Length | | 2.8mm; 3.6mm; 6mm | | | | |
| Max. Aperture | | F1.6 | | | | |
| Field of View | | 2.8 mm: H: 111°; V: 59°; D: 131° 3.6 mm: H: 87°; V: 47°; D: 102° 6 mm: H: 55°; V: 30°; D: 64° | | | | |
| Iris Control | | Fixed | | | | |
| Close Focus Distance | | 2.8 mm: 1.8 m 3.6 mm: 2.6 m 6 mm: 4.4 m | | | | |
| | Lens | Detect | Observe | Recognize | Identify | |
| | 2.8 mm | 85.4 m (280.18 ft) | 34.2 m (112.20 ft) | 17.1 m (56.10 ft) | 8.5 m (27.89 ft) | |
| | 3.6 mm | 106.0 m (347.77 ft) | 42.4 m (131.11 ft) | 21.2 m (69.55 ft) | 10.6 m (34.78 ft) | |
| DORI Distance | 6 mm | 164.8 m | 65.9 m | 33.0 m | 16.5 m | |

*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.

Yes

(540.68 ft) (216.21 ft) (108.27 ft) (54.13 ft)

Intelligence

EPTZ

Distance

| Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle, animal and human); loitering detection, people gathering, parking detection. Supports long- distance mode. Supports self-learning, it filters out false alarms. | | |
|--|--|--|
| Smart abandoned object; smart missing object | | |
| SMD 3.0 | | |
| ack-end ble, ve and | | |
| Yes | | |
| zation; t; g 6 s face, eal-time hot); | | |
| ng in area ng tripwire, | | |
| Yes | | |
| ody h; lor, ing, er of e and , face | | |
| o event | | |
| | | |
| | | |
| ported | | |
| | | |
| | | |
| Main stream: 3840 × 2160@(1–25/30 fps) Sub stream: D1@(1–25/30 fps) Third stream: 1080p@(1–25/30 fps) Fourth stream: 720p@(1–10 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. | | |
| | | |
| 1944; 1296; 1280 D); CIF | | |
| CBR/VBR | | |
| | | |
| | | |
| | | |

Wiz Mind S | DH-IPC-HDW5842TM-ASE

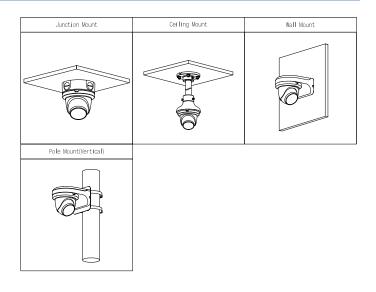
| BLC | Yes | | | |
|--------------------------------|--|--|--|--|
| HLC | Yes | | | |
| WDR | 120 dB | | | |
| Scene Self-adaptation (SSA) | Yes | | | |
| White Balance | Auto; natural; street lamp; outdoor; manual; regional custom | | | |
| Gain Control | Auto | | | |
| Noise Reduction | 3D NR | | | |
| Motion Detection | OFF/ON (4 areas, rectangular) | | | |
| Region of Interest (RoI) | Yes (4 areas) | | | |
| Smart Illumination | Yes | | | |
| Defog | Yes | | | |
| Image Rotation | 0°/90°/180°/270° (Support 90°/270° with 4M (2688 \times 1520) resolution and lower) | | | |
| Mirror | Yes | | | |
| Privacy Masking | 8 areas | | | |
| LDC | Yes (only 2.8mm/3.6mm supports) | | | |
| Audio | | | | |
| Built-in MIC | Yes | | | |
| Audio Compression | G.711a; G.711Mu; PCM; 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; external alarm; face detection; video metadata; SMD; people counting in area; stay detection; people counting; people number error detection; queue people number alarm; queue time alarm; security exception | | | |
| Network | | | | |
| Network Port | RJ-45 (10/100 Enhancement 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; SAMBA; PPPoE; SNMP; P2P; Auto Register | | | |
| Interoperability | ONVIF (Profile S/Profile G/Profile T/Profile M); CGI; | | | |
| User/Host | 20 (Total bandwidth: 80 M) | | | |
| Storage | FTP; SFTP; Micro SD card (support max. 1 TB); NAS | | | |
| Browser | IE: IE 9 and later Chrome: Chrome 102 and later Firefox: Firefox 88 and later | | | |
| Management Software | SmartPSS Lite; DSS; DMSS | | | |
| Mobile Client | iOS;Android | | | |
| Security | Trusted execution; Digest; Security logs; WSSE; Account lockout; Syslog; 802.1x; IP/MAC filtering; HTTPS; Trusted upgrade; Trusted boot; Generation and importing of X.509 certification | | | |
| | | | | |

Certification CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU Certifications 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) 1 channel in: wet contact, 5mA 3V–5V DC Alarm Input Alarm Output 1 channel out: wet contact, 300mA 12V DC Power 12 VDC/PoE (802.3af)/ePoE Power Supply When the power adapter and PoE provide power at **Dual Power Backup** the same time, disconnect one of them. The device will continue to work, but will not restart. Basic: 4.1 W (12 VDC); 5.2 W (PoE); Max. (H.265+ WDR+ Intelligence on+IR on): 6.8 W (12 Power Consumption VDC); 8.8 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 Inner core: Metal Cover: Metal Casing Material Decoration ring: Plastic Quick install mounting plate: Metal Product Dimensions 99.1 mm × Φ121.9 mm (3.90" × Φ4.80") Net Weight 500 g (1.10 lb) Gross Weight 770 g (1.70 lb)

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Ordering Information

| Туре | Model | Description | |
|---------------------------|----------------------|--|--|
| 8MP Camera | DH-IPC-HDW5842TM-ASE | 8MP IR Fixed-focal Eyeball WizMind Network Camera | |
| | IPC-HDW5842TM-ASE | 8MP IR Fixed-focal Eyeball WizMind Network Camera | |
| Accessories (Optional) | PFA130-E | Water-proof Junction Box | |
| | PFB205W-E | Wall Mount Bracket | |
| | PFA152-E | Pole Mount Bracket | |
| | PFA109 | Mount adapter | |
| | PFB220C | Ceiling Mount Bracket | |
| | PFM321D | 12 VDC 1 A Power Adapter | |
| | PFM900-E | Integrated Mount Tester | |
| | TF-P100 | MicroSD Memory Card | |



Dimensions (mm[inch])

Accessories

Optional:



PFA130-E Water-proof Junction Box



PFA109 Mount adapter



PFM900-E Integrated Mount Tester



PFB205W-E Wall Mount Bracket



PFB220C Ceiling Mount Bracket



TF-P100 MicroSD Memory Card



PFA152-E Pole Mount Bracket



PFM321D 12 VDC 1 A Power Adapter

