

DH-IPC-HFW5442H-ZE

4MP Vari-focal Bullet 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.

- 4MP, 1/1.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 4MP (2688 × 1520) @30 fps
- Max. IR distance: 60 m
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Alarm: 3 in, 2 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card
- 12V DC/PoE power supply
- ePoE, IP67, IK10 protection
- Supports junction box mount



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/weekly/daily reports to meet your requirements.

ePoE

Dahua ePoE technology provides a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves construction and wiring cost.

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 $\pm 30\%$ (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"4Megapixel progressive CMOS |
| Max. Resolution | 2688 (H) × 1520 (V) |
| ROM | 128 MB |
| RAM | 1 GB |
| Scanning System | Progressive |
| Electronic Shutter Speed | Auto/Manual 1/3 s–1/100,000 s |
| Min. Illumination | 0.003 Lux @F1.8 |
| S/N Ratio | >56 dB |
| Illumination Distance | 60 m (196.9 ft) (IR LED) |
| Illuminator On/Off Control | Auto/Manual |
| Illuminator Number | 4 (IR LED) |
| Pan/Tilt/Rotation Range | Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360° |

Lens

| | | | | | |
|----------------------|---|--------------------|-------------------|------------------|------------------|
| Lens Type | Motorized vari-focal | | | | |
| Mount Type | φ14 | | | | |
| Focal Length | 2.7 mm–12 mm | | | | |
| Max. Aperture | F1.8 | | | | |
| Field of View | Horizontal: 107°–44° Vertical: 69°–29° Diagonal: 134°–53° | | | | |
| Iris Type | Auto | | | | |
| Close Focus Distance | W/T: 1.2 m (3.9 ft) | | | | |
| DORI Distance | Lens | Detect | Observe | Recognize | Identify |
| | W | 57.0 m (187.0 ft) | 23.0 m (75.5 ft) | 11.0 m (36.1 ft) | 5.7 m (18.7 ft) |
| | T | 130.7 m (428.8 ft) | 52.0 m (170.6 ft) | 26.0 m (85.3 ft) | 13.0 m (42.7 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; optimization; snapshot; report high quality picture; face enhancement; face exposure; face attribute extract, 6 attributes and 8 expressions: Gender, age, glasses, expressions (anger, calm, happiness, sadness, disgust, surprise, confusion and fear), mask, beard; face matting setting: face, single inch photo; three snapshot methods: real-time snapshot, optimization snapshot, quality priority; 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/weekly/daily reports
Support the counting of number in area, and 4 rules configuration. Count number of people or stay time and link alarm
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

Video

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|--------------------------------------|--|
| Video Compression | H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream) |
| Smart Codec | Smart H.265+/H.264+ |
| Video Frame Rate | Main stream: 2688 × 1520 (1 fps–25/30 fps) 1920 × 1080 (1 fps–50/60 fps) Sub stream: D1 (1 fps–50/60 fps) Third stream: 1080p (1 fps–25/30 fps) |
| Stream Capability | 3 streams |
| Resolution | 2688 × 1520; 2560 × 1440; 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: 32 kbps–8192 kbps H.265: 19 kbps–8192 kbps |
| Day/Night | Auto (ICR)/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 DNR |
| Motion Detection | OFF/ON (4 areas, rectangular) |
| Region of Interest (RoI) | Yes (4 areas) |
| Electronic Image Stabilization (EIS) | Yes |
| Smart Illumination | Yes |
| Defog | Yes |
| Image Rotation | 0°/90°/180°/270° |
| Mirror | Yes |
| Privacy Masking | 4 areas |

Audio

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|-------------------|---|
| Audio Compression | PCM; G.711a; G.711Mu; G.726; AAC; G.723 |
|-------------------|---|

Alarm

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|-------------|--|
| Alarm Event | No SD card; SD card full; SD card error; network 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; voltage detection; people counting in area; stay alarm; people No. exception detection, queue management |
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Network

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|---------------------|---|
| Network | RJ-45 (10/100 Base-T) |
| SDK and API | Yes |
| 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; Genetec; P2P |
| User/Host | 20 (Total bandwidth: 88 M) |
| Storage | FTP; SFTP; Micro SD Card (support max. 256 G); Dahua Cloud; NAS |
| Browser | IE: IE8 and later Chrome Firefox Safari: Safari 12 and later |
| Management Software | Smart PSS; DSS; DMSS |
| Mobile Phone | IOS; Android |

Certification

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|---------------|--|
| Certification | 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

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| Audio Input | 1 channel (3.5mm JACK port) |
| Audio Output | 1 channel (3.5mm JACK port) |
| Alarm Input | 3 channels in: 5mA 3V-5V DC |
| Alarm Output | 2 channels out: 300mA 12V DC |

Power

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|-------------------|-----------------------------|
| Power Supply | 12V DC (±30%)/PoE (802.3af) |
| Power Consumption | <11.6W |

Environment

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|----------------------|---|
| Operating Conditions | -30°C to +60°C (-22°F to +140°F)/Less than 95% RH |
| Storage Conditions | -40°C to +60°C (-40°F to +140°F) |
| Protection Grade | IP67; IK10 |

Structure

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|--------------|--|
| Casing | Metal + Plastic |
| Dimensions | 340.1 mm × 108.5 mm × 92.9 mm (13.4" × 4.3" × 3.7") (L × W × H) |
| Net Weight | 1.47 kg (3.2 lb) |
| Gross Weight | 2.34 kg (5.2 lb) |

Ordering Information

| Type | Model | Description |
|------------------------|---------------------|---|
| 4MP Camera | DH-IPC-HFW5442HP-ZE | 4MP Vari-focal Bullet WizMind Network Camera , PAL |
| | DH-IPC-HFW5442HN-ZE | 4MP Vari-focal Bullet WizMind Network Camera , NTSC |
| | IPC-HFW5442HP-ZE | 4MP Vari-focal Bullet WizMind Network Camera , PAL |
| | IPC-HFW5442HN-ZE | 4MP Vari-focal Bullet WizMind Network Camera , NTSC |
| Accessories (Optional) | PFA154 | Pole Mount |

Accessories

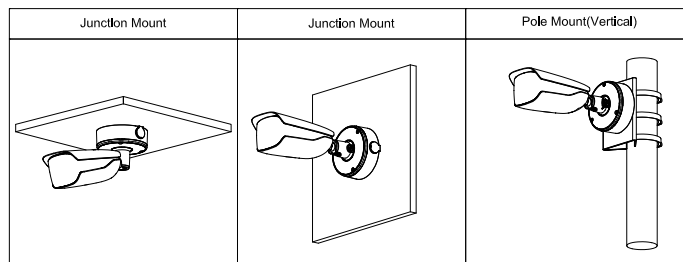
Optional



PFA154 Pole Mount



LR1002 ePoE Over Coax Converter



Dimensions (mm[inch])

