



DH-IPC-HFW7842H-Z4

8MP IR 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 advanced deep learning algorithm, Dahua WizMind 7 Series network camera supports various intelligent functions and satisfies the requirements in different scenes. The camera can accurately recognize person, vehicle, and non-motor vehicle, face, ANPR, and liveness. This series camera has ultra starlight night version effect, and works with ultra-low stream. It 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.

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.

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265

- 8MP, 1/1.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 8MP(3840 × 2160) @25/30 fps
- H.264&H.265 coding, high compression ration
- WDR, day/night, 3D NR, AWB, HLC, BLC
- ROI, SVC, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- With deep learning algorithm, it supports people counting, face detection, perimeter protection etc
- Alarm: 3 in, 2 out; audio: 1 in, 1 out; RS-485; BNC; supports max. 256 G SD card
- 24V AC/12V DC/PoE power supply (the power ports are different depending on the power supply)
- Five streams for three-channel HD video
- IP67, IK10 protection
- 12V DC power output, max. current 165mA , easy for installation



and H.264, provides high-quality video, and reduces the cost of storage and transmission.

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.

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.

ANPR

With high-performance GPU chip, deep learning algorithm, and lots of sample training learning, Dahua ANPR technology can automatically collect and recognize the vehicle information, including license plate, logo, vehicle type, and vehicle color.

Queue Management

With advanced image processing technology and deep leaning algorithm, Dahua Queue Management technology counts people quantity in selected area in real time to realize queue management. It supports multiple polygon areas. When No. in area/strand time is not smaller or not larger than the threshold, it triggers alarm.



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Technical Specification

| Camera | | | | | |
|----------------------------|------|--|-----------------------|-----------------------|----------------------|
| Image Sensor | | 1/1.8"8Megapixel progressive CMOS | | | |
| Max. Resolution | | 3840 (H) × 2160 (V) | | | |
| ROM | | 4 G | | | |
| RAM | | 2 G | | | |
| Scanning System | | Progressive | | | |
| Electronic Shutter Speed | | Auto/Manual 1/3 s-1/100,000 s | | | |
| Min. Illumination | | 0.005 @F1.6 | | | |
| S/N Ratio | | >56 dB | | | |
| Illumination Distance | | 120 m (393.7 ft) | | | |
| 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 | | Module | | | |
| Focal Length | | 8 mm–32 mm | | | |
| Max. Aperture | | F1.6(Constant F1.6 throughout the zoom range) | | | |
| Field of View | | Horizontal: 40° (W)–15° (T) Vertical: 23° (W)–9° (T) Diagonal: 45° (W)–17° (T) | | | |
| Iris Type | | Auto; Precise iris control | | | |
| Close Focus Distance | | W: 2.5 m (8.20 ft) T: 6 m (19.68 ft)" | | | |
| | Lens | Detect | Observe | Recognize | Identify |
| DORI Distance | W | 218.0 m (715.2 ft) | 87.0 m (285.4 ft) | 43.0 m (141.1 ft) | 21.0 m (68.9 ft) |
| | Т | 580.0 m (1902.9 ft) | 232.0 m (761.2 ft) | 116.0 m (380.6 ft) | 58.0 m (190.3 ft) |
| Smart Event | | | | | |
| IVS | | Abandoned object; moving object | | | |
| Professional, intellige | | nt | | | |
| IVS (Perimeter Protection) | | Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human); parking detection, loitering detection, and people gathering | | | |

detection, and people gathering.

snapshot, quality priority; Face angle filter Priority time setting;

beard;

Face Detection

Face detection, track, priority, snapshot; Upload Optimized snapshot picture; Face enhancement, face exposure, face attribute

extract,6 attributes and 8 expressions: Gender, age,

surprise, calm, happiness and confusion), Mouth mask,

Face matting setting: face, single inch photo; Three snapshot methods: real-time snapshot, priority

glasses, expressions (anger, sadness, disgust, fear,

Support Duration Optimal, Non-living Filtering;

| People Counting | Support tripwire number counting; people counting in area, and displaying and outputting yearly/monthly/daily reports. Support queue management, and displaying and outputting yearly/monthly/daily reports. Support 4 tripwire rule configuration, people counting in 4 areas, and 4 queue managements. | |
|---|---|--|
| ANPR | ANPR, track, priority, snapshot Vehicle attributes: license plate, vehicle type, vehicle color, vehicle brand Other attributes: sun visor, seat belt, smoking, phoning, in-car accessories, annual vehicle inspection mark | |
| Video Metadata | Support human body, human face, motor vehicle and non-motor vehicle detection detection; track, priority, snapshot, Upload Optimized snapshot picture; Motor vehicle attributes: Plate Namember, Vehicle type,Vehicle color, Car Logo,Sunsheild,Seatbelt, Smoke, Ornament,Inspection Sticker;Calling; Non-motor vehicle attributes:(Vehicle Type,Vehicle Color,Occupancy,Top,Top Color,Hat) Human body attributes:(Top,Bottom,Top Color,Bottom Co lor,Bag,Hat,Umbrella,Gender) Human face attributes:(Gender, age, glasses,expressions, Mouth mask, beard) | |
| Intelligent Search | Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos. | |
| Video | | |
| 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: 3840 × 2160 (1-25/30 fps) Sub stream: 704 × 576 (1-25 fps)/704 × 480 (1–30 fps) Third stream: 1920 × 1080 (1-25/30 fps) Fourth stream: 1920 × 1080 (1-25/30 fps) Fifth stream: 704 × 576 (1-25)/704 × 480 (1–30 fps) | |
| Stream Capability | 5 streams | |
| Resolution | 8M (3840 × 2160); 6M (3072 × 2048/3072 × 1728); 5M (2592 × 1944); 4M (2688 × 1520); CIF (352 × 288/352 × 240); 3M (2048 × 1536/2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480) | |
| Bit Rate Control | CBR/VBR | |
| Video Bit Rate | H.264: 32 kbps-16384 kbps H.265: 12 kbps-16384 kbps | |
| Day/Night | Auto (ICR)/Color/B/W | |
| BLC | Yes | |
| HLC | Yes | |
| WDR | 120 dB | |
| Scene Self-adaptation | Yes | |
| 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) | |
| Electronic Image Stabilization (EIS) | Yes | |
| Smart Illumination | Yes | |
| Defog | Yes | |
| Image Rotation | $0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 1080p resolution and lower.) | |
| | | |

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| Mirror | Yes | | | |
|----------------------|---|--|--|--|
| Privacy Masking | 4 areas | | | |
| Audio | | | | |
| Audio Compression | G.711a; G.711Mu; G726; AAC; 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; defocus detection; external alarm; face detection; people counting in area; stay alarm; people counting; people No. exception detectiong exception detection; safety exception,queue management | | | |
| Network | | | | |
| Network | RJ-45 (10/100/1000 Base-T) | | | |
| SDK and API | Yes | | | |
| Protocol | HTTP; HTTPS; 802.1x; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; SNMP; QoS; UPnP; NTP; SFTP; RTMP; Genetec; Bonjour; Multicast | | | |
| Interoperability | ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P; RTMP | | | |
| User/Host | 20 (Total bandwidth: 160 M) | | | |
| Storage | FTP; SFTP; Micro SD card (support max. 256 G); Dahua Cloud; NAS | | | |
| Browser | IE: IE9 and earlier Chrome: Chrome 42 and earlier Firefox: Firefox 48.0.2 and earlier | | | |
| Management Software | Smart PSS; DSS; DMSS | | | |
| Mobile Phone | IOS; Android | | | |
| Certification | | | | |
| 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 | | | | |
| RS-485 | 1 (baud rate range: 1200 bps-115200 bps) | | | |
| 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: 1,000mA 30V DC/500mA 50V DC | | | |
| Power | | | | |
| Power Supply | 12V DC/24V AC/PoE+ (802.3at) | | | |
| Power Consumption | <17.3W | | | |
| Environment | | | | |
| Operating Conditions | -40°C to +60°C (-40°F to 140°F)/Less than 95% RH | | | |
| Strorage Conditions | -40°C to +60°C (-40°F to +140°F) | | | |
| | | | | |

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Structure

| Casing | Metal + plastic |
|--------------|---|
| Dimensions | 340.1 mm × 108.5 mm × 92.9 mm (13.4" × 4.3" × 3.7") (L × W × H) |
| Net Weight | 1600 g (3.53 lb) |
| Gross Weight | 2400 g (5.29 lb) |

Ordering Information Model Туре Description 8MP IR Bullet WizMind Network DH-IPC-HFW7842HP-Z4 Camera, PAL 8MP IR Bullet WizMind Network DH-IPC-HFW7842HN-Z4 Camera, NTSC 8M Camera 8MP IR Bullet WizMind Network IPC-HFW7842HP-Z4 Camera, PAL 8MP IR Bullet WizMind Network IPC-HFW7842HN-Z4 Camera, NTSC Accessories PFA154 Pole Mount (Optional)

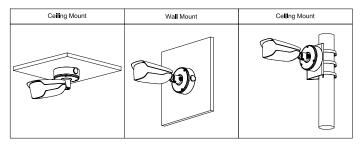
Accessories

Optional





Pole Mount



Dimensions (mm[inch])

