



DH-IPC-HFW7442H-Z-X

4MP IR Bullet 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 AI solutions for verticals.

Series Overview

Driven by deep learning algorithms, Dahua WizMind X Series network camera supports various intelligent functions, meeting the requirements of a wide variety of scenes. The camera can accurately recognize people, motor and non-motor vehicles, faces. It also supports PPE detection, smart sound detection, privacy protection, ANPR, parking space management, and enabling 2 intelligent functions at the same time. The camera adopts advanced image processing Al-Powered Image technology, has the Deeplight night vision effect and works with ultra-low streams. It is also dustproof, waterproof and vandal-proof, and is certified as IP67 and IK10 (the type of protection varies depending on the model).

Functions

AI-Powered Image

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

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. The camera can count targets by directions (A>B, B>A, or A<>B), and export the report.

Parking Space Management

With Parking Space Management, the camera can count the number of parked vehicles and parking spaces available in open parking lots and planned parking lots. It can extract and display the status of parking spaces, so as to facilitate the management of parking spaces and improve parking efficiency.

- 4-MP 1/1.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688 × 1520)@50/60 fps.
- Built-in IR LED, and the max. illumination distance is 60 m.
- Time-Division Exposure technology ensures that when the device is taking multiple snapshots of more than one targets, the quality of the snapshots will not be affected. It can also be used to adjust the brightness, speed and more of targets, to produce high quality snapshots.
- ROI, flexible coding, applicable to various bandwidth and storage environments.
- Two intelligent functions can be enabled at the same time, such as face recognition+people counting, face detection+people counting and PPE Detection+IVS.
- With deep learning algorithm, it supports: face recognition, face detection, IVS, people counting, video metadata, PPE Detection, parking space management and ANPR, etc.
- Privacy Protection: Mosaics can be automatically placed over the face or body of a person to protect their privacy.
- Alarm: 3 in, 2 out; audio: 1 in, 1 out; RS-485, BNC; supports max. 512 G Micro SD card.
- 12 VDC/24 VAC/PoE+/ePoE power supply, 12 VDC power output, max. current 165 mA and peak current is 700 mA, easy for installation.
- IP67 and IK10 protection.
- · Anti-Corrosion coating(optional).



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.

PPE Detection

With the PPE Detection function, the camera can detect attributes including workwear, hat,face mask,apron,gloves,shoe covers, boots, seatbelt, safety vest, and determine whether PPE requirements are met. Match attributes alarm or mismatch attributes alarm can be triggered according to the alarm settings. DH-IPC-HFW7442H-Z-X

Cyber Security

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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.

Privacy Protection

Dahua Privacy Protection technology can mask the detected face and human body to protect the privacy of some special targets.

Protecton (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 work normally 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

Camera	
Image Sensor	1/1.8" CMOS
Max. Resolution	2688 (H) × 1520 (V)
ROM	8 GB
RAM	4 GB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s
Min. Illumination	0.0005 lux@F1.2 (Color, 30 IRE) 0.0002 lux@F1.2 (B/W, 30 IRE) 0 lux (Illuminator on)
S/N Ratio	>56dB
Illumination Distance	Up to 60 m (196.85 ft) (IR LED)
Illuminator On/Off Control	Auto
Illuminator Number	4 (IR LED)
Angle Adjustment	Pan: 0-360° Tilt: 0-90° Rotation: 0-360°
Lens	
Lens Type	Motorized vari-focal
Lens Mount	φ16
Focal Length	2.7 mm-12 mm
Max. Aperture	F1.2
Field of View	H: 107°–48°; V: 55°–27°; D: 130°–56°
Iris Control	Auto
Iris Control Type	P-Iris

General mode: Face detection; snapshot; snapshot optimization; optime face antributes extraction including 6 attributes and 8 expressions; face snapshot set as face or one inch photo snapshot; face angle filter; optimization time setting. privacy protectionFace RecognitionSupports adding 5 group face databases; registering person one by one or in batches; setting face similarity; and supports face comparison with the face database containing up to 200,000 face pictures. Counting mode: Offers advanced customer counter, filters out specified faces from the face database, and exports both before and after removing duplicate faces.PPE DetectionTriggers alarms when the detected object matches or does not match all of the configured attributes (workwear, hat, face mask, apron, gloves, shoe covers, boots, seatbelt, safety vest); privacy protectionPeople CountingYesANPRANPR: ANPR, track, priority, snapshot. Vehicle attributes: License plate, vehicle type, vehicle color.ANPRANPR: ANPR, track, priority, snapshot. Vehicle attributes: License plate, vehicle type, vehicle color.Parking Space ManagementAnsage out to 00,000 blocklist records and 10,000 allowlist records. The camera can recognize plate numbers of vehicles moving at speeds of up to 60km/h.								
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			planned parking lots; manage parking spaces in multiple areas; display the total number of parking spaces and parking spaces that are available; trigger alarms based on					

Close Focus Distance

1.8 m (5.91 ft)

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Video Metadata	Motor vehicle, non-motor vehicle, face, and human body detection; snapshot; snapshot optimization; optimal face snapshot upload. Motor vehicle attributes: License plate, vehicle type, vehicle color, vehicle logo, seatbelt, smoking, and calling. Generates flow statistics for people, motor vehicles and non-motor vehicles based on the direction, and exports reports. Non-motor vehicle attributes: Type, vehicle color, number of people, top type and color, and hat. Human body attributes: Top and bottom type and color, bag, hat, gender and umbrella. privacy protection.
Smart 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+; Smart H.264+
Video Frame Rate	Main Stream: 2688 × 1520@(1–50/60 fps) Sub stream: 1920×1080@(1–25/30 fps) Third stream: 1920 × 1080@(1–25/30 fps) Fourth stream: 1920 × 1080@(1–25/30 fps) Fifth stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps)
Stream Capability	5 streams
Resolution	4M (2688 × 1520); 3M (2048 × 1536); 3M (2304 × 1296) 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 32 kbps–10240 kbps; H.264: 12 kbps–10240 kbps
Day/Night	Auto(ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	140 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)
Image Stabilization	Electronic Image Stabilization (EIS)
Smart Illumination	Yes
Defog	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)
Mirror	Yes
Privacy Masking	8 areas
LDC	Yes
Time-Division Exposure	Yes

Audio Audio Compression G.711a; G.711Mu; PCM; G.726; G.723 Alarm 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; parking Alarm Event space management; scene changing; audio detection; defocus detection; external alarm; face detection; face recognition; video metadata; ANPR; people counting in area; stay alarm; people counting; people number error detection; people stay detection; security exception; PPE detection Network Network Port RJ-45 (10/100/1000 Base-T) SDK and API Yes IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP ; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; Network Protocol NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP; P2P Interoperability ONVIF (Profile S/Profile G/Profile T); CGI User/Host 20 (Total bandwidth: 340 M) Storage FTP;SFTP; Micro SD card (support max. 512 GB); NAS IE: IE11 and later; Chrome: Chrome 88.0.4324.190 and Browser later; Firefox: Firefox 47.0.2 and later; Management Software SmartPSS Lite; DSS; DMSS Mobile Client iOS: Android Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; Cyber Security IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade 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; UL 50E NEMA Type 4X Port RS-485 1 (baud rate range:1200 bps-115200 bps) Audio Input 1 channel (RCA port) Audio Output 1 channel (RCA port) Alarm Input 3 channels in: wet contact, 5 mA 3-5 VDC 2 channels out: dry contact, 1,000 mA 30 VDC/500 mA Alarm Output 50 VAC Analog Output 1 channel (CVBS output: BNC) 12 VDC power output, max. current 165 mA, peak Power Output current 700 mA Power Power Supply 12 VDC/24 VAC/PoE+ (802.3at)/ePoE

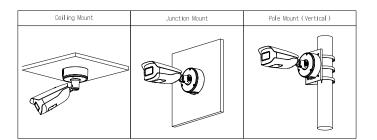


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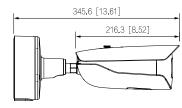
Power Consumption	Basic: 7.3 W (12 VDC); 10.2 W (24 VAC); 10.6 W (PoE) Max. (ICR switch + IR intensity): 18.2 W (12 VDC); 24.2 W (24 VAC); 24.3 W (PoE) Heating: 3 W (12 VDC); 4.6 W (24 VAC); 5.47 W (PoE)
Environment	
Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Operating Humidity	≤95%
Storage Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Storage Humidity	10–95%
Protection	IP67; IK10; Anti-Corrosion Protection (optional)
Structure	
Casing Material	Metal + plastic
Product Dimensions	345.6 mm × 134.2 mm × 135.1 mm (13.61" × 5.28" × 5.32") (L × W × H)
Net Weight	1.65 kg (3.64 lb)
Gross Weight	2.73 kg (6.02 lb)

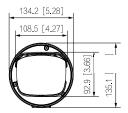
Ordering Information

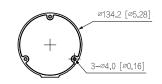
Туре	Model	Description	
4MP Camera	DH-IPC-HFW7442H-Z-X	4MP IR Bullet WizMind Network Camera	
	IPC-HFW7442H-Z-X	4MP IR Bullet WizMind Network Camera	
Accessories (Optional)	PFA154	Pole mount bracket	
	PFM320D	12 VDC 2A Power Adapter	
	PFM900-E	Integrated Mount Tester	
	TF-P100	MicroSD Memory Card	



Dimensions (mm[inch])







Accessories

Optional:



PFA154 Pole mount bracket



PFM320D 12 VDC 2A Power Adapter





TF-P100 MicroSD Memory Card

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