

DH-IPC-HFW7842H-Z4VH

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

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.

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.

- \cdot 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 ANPR, parking space management, video metadata.
- Alarm: 3 in, 2 out; audio: 1 in, 1 out; RS-485; BNC; supports max. 256 G SD card.
- 24 VAC/12 VDC/PoE power supply (the power ports are different depending on the power supply).
- Five streams for three-channel HD video.
- IP67, IK10 protection.
- Anti-corrosion coating (optional).
- 12 VDC power output, max. current 165mA , easy for installation.



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.

Cyber Security

Dahua network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading the device.

Parking Space Management

With Parking Space Management, the camera can count the number of parked vehicles and parking spaces available in outdoor 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.

Technical Specification

Camera

cumera					
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		0.005 lux@F1.6 (Color, 30 IRE) 0.0005 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)			
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. Apertu	re	F1.6 (Constant)			
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)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	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, intelligent					
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.				
ANPR	ANPR, track, priority, snapshot Vehicle attributes: License plate, vehicle type, vehicle color Other attributes: Seat belt, smoking, phoning Support up to 10,000 blocklist records and 10,000 allowlist records. The camera can recognize plate numbers of vehicles moving at speeds of up to 60 km/h.				
Video Metadata	Support human body, human face, motor vehicle and non-motor vehicle image capture, attributes extraction, counting targets by directions (A>B, B>A, or A<>B), and exporting the report.				

Parking Space Management	Manage outdoor and 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 a predefined number of unbiated		
Intelligent Search	of vehicles. 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		
Smart Codec	by the sub stream) 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 (SSA)	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°/90°/180°/270° (Supports 90°/270° with 2688 × 1520 resolution and lower)		
Mirror	Yes		
Privacy Masking	8 areas		
Audio			
Audio Compression	G.711a; G.711Mu; G726; G.723		
Alarm			
Alarm Event	No SD card, SD card full, SD card error, network disconnected, IP conflict, motion detection, video tempering detection, tripwire, intrusion, abandoned object, missing object, scene changing, audio abnormal, defocus detection, loitering detection, people gathering, fast moving, parking detection, ParkingLimitDetection , video metadata, external alarm, illegal access and safety abnormity.		

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Network RJ-45 (10/100/1000 Base-T) Network SDK and API Yes Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security Cyber Security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; Protocol QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; 802.1x; SNMP; Bonjour ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Interoperability Genetec; P2P; RTMP User/Host 20 (Total bandwidth: 160 M) FTP; SFTP; Micro SD card (support max. 256 G); NAS Storage IE: IE9 and earlier Chrome: Chrome 42 and earlier Browser Firefox: Firefox 48.0.2 and earlier Management Software Smart PSS; DSS; DMSS Mobile Phone IOS; Android Certification CE-LVD: EN62368-1 **CE-EMC: Electromagnetic Compatibility Directive** 2014/30/EU Certification 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 (optional) 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-5 VDC Alarm Output 2 channels out: 1,000mA 30 VDC/500mA 50 VAC Power 12 VDC/24 VAC/PoE+ (802.3at); ePoE **Power Supply** Basic power consumption: 3.7W (12 VDC); 5.7W(24 VAC); 5.5W (PoE) Max. power consumption (Max. stream + intelligent Power Consumption function + IR LED + focus): 12.2W (12 VDC); 17.3W (24 VAC); 17.1W (PoE) Heat power consumption: 3.3W (12 VDC); 5.5W (24 VAC); 5.5W (PoE) Environment **Operating Conditions** -40°C to +65°C (-40°F to +149°F)/Less than 95% RH Strorage Conditions -40°C to +65°C (-40°F to +149°F) IP67; IK10, Anti-Corrosion Protection: NEMA 4X Protection Grade (optional) Structure Casing Metal + plastic 340.1 mm × 108.5 mm × 92.9 mm (13.4" × 4.3" × 3.7") Dimensions $(L \times W \times H)$

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Net Weight	1600 g (3.53 lb)
Gross Weight	2400 g (5.29 lb)

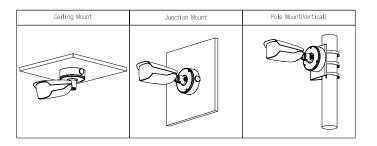
Ordering Information				
Туре	Model	Description		
8M Camera	DH-IPC-HFW7842H-Z4VH	8MP IR Bullet WizMind Network Camera, PAL		
	IPC-HFW7842H-Z4VH	8MP IR Bullet WizMind Network Camera, PAL		
Accessories (Optional)	PFA154	Pole Mount		

Accessories





PFA154



Dimensions (mm[inch])

