



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.

- 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
- 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.









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							Manage outdoor and planned parking lots; manage parking spaces in multiple areas; display the total	
Camera				Parking Space Management	number of parking spaces and parking spaces that are available; trigger alarms based on a predefined number of vehicles.			
Image Sensor		1/1.8"CMOS					Intelligent Search	Work together with Smart NVR to perform refine
Max. Resolution		3840 (H) × 2160 (V)						intelligent search, event extraction and merging to event videos.
ROM		4 GB					Video	
RAM		2 GB					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)
Scanning System		Progressive					Smart Codec	Smart H.265+/H.264+
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Video Frame Rate	Main Stream: $3840 \times 2160 \ (1-25/30 \ fps)$ Sub stream: $704 \times 576 \ (1-25 \ fps)/704 \times 480 \ (1-30 \ fps)$ Third stream: $1920 \times 1080 \ (1-25/30 \ fps)$ Fourth stream: $1920 \times 1080 \ (1-25/30 \ fps)$ Fifth stream: $704 \times 576 \ (1-25)/704 \times 480 \ (1-30 \ fps)$
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					Stream Capability	5 streams
Illumination Distance		120 m (393.7 ft)					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)
Illuminator On/Off Control		Auto; manual						
Illuminator Number		4 (IR LED) Pan:0°-360°					Bit Rate Control	CBR/VBR
Pan/Tilt/Rotation Range		Tilt:0°–90° Rotation:0°–360°					Video Bit Rate	H.264: 32 kbps-16384 kbps H.265: 12 kbps-16384 kbps
Lens							Day/Night	Auto (ICR)/Color/B/W
Lens Type		Motorized vari-focal					BLC	Yes
Mount Type		Module					HLC	Yes
Focal Length		8 mm-32 mm					WDR	120 dB
Max. Aperture		F1.6 (Constant)					Scene Self-adaptation (SSA)	Yes
Field of View	1	Horizontal: 40° (W)–15° (T) Vertical: 23° (W)–9° (T)					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Iris Type		Diagonal: 45° (W)–17° (T) Auto; precise iris control					Gain Control	Auto; manual
	a	W: 2.5 m (8.20 ft)					Noise Reduction	3D NR
Close Focus I	Distance	T: 6 m (19.68 ft)					Motion Detection	OFF/ON (4 areas, rectangular)
	Lens	Detect	Observe	Recognize	Identify		Region of Interest (RoI)	Yes (4 areas)
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)		Electronic Image Stabilization (EIS)	Yes
	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 Illumination	Yes
Smart Eve	ent	(1302.3 It) (701.2 It) (380.0 It) (130.3 It)			(150.5 10)		Defog	Yes
IVS		Abandoned object; moving object					Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 2688 \times 1520 resolution and lower)
Profession	nal, intelliger	nt					Mirror	Yes
	,	Tripwire, intrusion, fast moving (the three functions					Privacy Masking	8 areas
IVS (Perimeter Protection)		support the classification and accurate detection of vehicle and human); parking detection, loitering					Audio	
		detection, and people gathering. ANPR: ANPR, track, priority, snapshot.					Audio Compression	G.711a; G.711Mu; G726; G.723
ANPR		Vehicle attributes: License plate, vehicle type, vehicle color. Other attributes: Seat belt, smoking, calling. Support up to 10,000 blocklist and allowlist records. The camera can recognize plate numbers of vehicles moving at speeds of up to 60km/h.					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,
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.						defocus detection, loitering detection, people gathering, fast moving, parking detection, ParkingLimitDetection, video metadata, external alarm, illegal access and safety abnormity.

Network		
Network	RJ-45 (10/100/1000 Base-T)	
SDK and API	Yes	
Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot trusted execution; trusted upgrade	
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; Bonjour	
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); 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: 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		
Power Supply	12 VDC/24 VAC/PoE+ (802.3at); ePoE	
Power Consumption	Basic power consumption: 3.7W (12 VDC); 5.7W(24 VAC); 5.5W (PoE) Max. power consumption (Max. stream + intelligent function + IR LED + focus): 12.2W (12 VDC); 17.3W (2-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)	
Protection Grade	IP67; IK10, Anti-Corrosion Protection: NEMA 4X (optional)	
Structure		
Casing	Metal + plastic	

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

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

Accessories

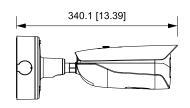
Optional

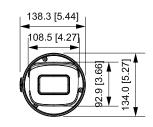


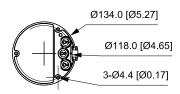
PFA154

Ceiling Mount	Junction Mount	Pole Mount(Vertical)	

Dimensions (mm[inch])







Dimensions

Rev 002.000

© 2023 Dahua. All rights reserved. Design and specifications are subject to change without notice.
The images, specifications and information mentioned in the document are only for reference, and might differ from the actual product.

340.1 mm × 108.5 mm × 92.9 mm (13.4" × 4.3" × 3.7")