



DH-IPC-HFW7442H-Z4VH

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, 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.

- · 4MP, 1/1.8" CMOS image sensor, low illuminance, high definition image.
- · Max outputs 4MP (2688 × 1520) @50 fps/60 fps.
- · H.264&H.265 coding, high compression ration.
- · Wide dynamic, 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, perimeter protection.
- · 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 grade.
- · Anti-corrosion coating (optional)
- · 12 VDC power output, max. current 165mA, easy for installation.











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.

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.

Privacy Protection

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

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					Support human body, human face, motor vehicle		
Camera				Video Metadata	and non-motor vehicle image capture, attributes extraction, counting targets by directions (A>B, B>A, or A<>B), and exporting the report.		
Image Sensor		1/1.8" CMOS					
Max. Resolution		2688 (H) × 15	520 (V)			Darking Space Management	Manage outdoor and planned parking lots; manage parking spaces in multiple areas; display the total
ROM		4 GB				Parking Space Management	number of parking spaces and parking spaces that are available; trigger alarms based on a predefined number of vehicles.
RAM		2 GB					Work together with Smart NVR to perform refine
Scanning Syste	em	Progressive				Intelligent Search	intelligent search, event extraction and merging to event videos.
Electronic Shu	tter Speed	Auto/Manual 1/3 s–1/100,000 s				Video	
Min. Illuminati	ion	0.001 lux@F1.6 (Color, 30 IRE) 0.0002 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)				Video Compression	H.265, H.264, H.264H, H.264B, MJPEG(only supported by sub stream)
S/N Ratio		> 56 dB				Smart Codec	Smart H.265+/ Smart H.264+
Illumination D	istance	120 m (393.70 ft)					Main Stream: 2688 × 1520 (1–50/60 fps) Sub stream: 704 × 576 (1–25 fps);704 × 480 (1–30 fps)
Illuminator On/Off Control		Auto; manual				Video Frame Rate	Third stream: 1920 × 1080 (1–25/30 fps) Fourth stream: 1920 × 1080 (1–25/30 fps) Fifth stream: 704 × 576 (1–25fps);704 × 480 (1–30 fps)
Illuminator Number		4 (IR LED)				Stream Capability	5 streams
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90°				Stream Capability	4M (2688 × 1520), 3M (2304 × 1296),
Lens		Rotation: 0°–360°				Resolution	1080p (1920 × 1080), 1.3M (1280 × 960), 720p (1280 × 720), D1 (704 × 576/704 × 480), VGA (640 × 480), CIF (352 × 288/352 × 240)
Lens Type		Motorized vari-focal				Bit Rate Control	CBR/VBR
Mount Type		Module interface				Video Bit Rate	H.264: 32 kbps–10240 kbps H.265: 12 kbps–10240 kbps
Focal Length		8 mm-32 mm				Day/Night	Auto (ICR)/Color/B/W
Max. Aperture		F1.6 (Constant)				BLC	Yes
Field of View			0° (W)–15° (T))		HLC	Yes
Field of View		Vertical: 23° (W)–9° (T) Diagonal: 46° (W)–18° (T)				WDR	140 dB
Iris Type		Auto; precise iris control				Scene Self-adaptation (SSA)	Yes
Close Focus Distance		W: 2.5 m (8.20 ft) T: 6 m (19.69 ft)				White Balance	Auto; natural; street lamp; outdoor; manual; regional
	Lens	Detect	Observe	Recognize	Identify		Custom
DORI	W	151 m (495.4 ft)	60.7 m (199.15 ft)	30.3 m (99.41 ft)	15.1 m (49.54 ft)	Gain Control	Auto; manual
Distance	-	400 m	160 m	80 m	40 m	Noise Reduction	3D NR
	Т	(1312.34 ft)	(524.93 ft)	(262.47 ft)	(131.23 ft)	Motion Detection	OFF/ON (4 areas, rectangular)
Smart event	t					Region of Interest(RoI)	Yes (4 areas)
IVS		Abandoned object, moving object				Electronic Image Stabilization(EIS)	Yes
Professional, intelligent				Smart Illumination	Yes		
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.				Defog	Yes
						Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 2688 \times 1520 resolution and lower)
ANPR		ANPR: ANPR, track, priority, snapshot. 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				Mirror	Yes
						Privacy Masking	8 areas
						Audio	
		moving at sp	eeds of up to	60km/h.		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.		
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: 80M)		
Storage	FTP; Micro SD card (256 G); NAS; SFTP		
Browser	IE: IE9 and later Chrome: Chrome 42 and later Firefox: Firefox 48.0.2 and later		
Management Software	Smart PSS; DSS; DMSS		
Mobile Phone	iOS; Android		
Certification			
Certifications	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 (3.5 mm JACK head)		
Audio Output	1 channel (3.5 mm JACK head)		
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 (24 VAC); 17.1W (PoE) Heat power consumption: 3.3W (12 VDC); 5.5W (24 VAC); 5.5W (PoE)		
Environment			

Operating Conditions

Storage conditions

Protection Grade	IP67; IK10; Anti-Corrosion Protection: NEMA 4X (optional)
Structure	
Casing	Metal + Plastic
Dimensions	340.1 mm × 108.5 mm × 92.9 mm (13.39" × 4.27" × 3.66") (L × W × H)
Net Weight	1600 g (3.53 lb)
Gross Weight	2400 g (5.29 lb)

Ordering Information						
Туре	Part Number	Description				
4MP Camera	DH-IPC-HFW7442H- Z4VH	4MP IR Bullet WizMind Network Camera, PAL				
4MP Camera	IPC-HFW7442H- Z4VH	4MP IR Bullet WizMind Network Camera, PAL				
Accessories (optional)	PFA154	Pole Mount				

Accessories

Optional:



PFA154

Ceiling Mount	Junction Mount	Pole Mount(Vertical)
	9	

-40°C to +65°C (-40°F to +149°F)/Less than 95% RH

-40°C to +65°C (-40°F to +149°F)

Dimensions (mm[inch])





