



DH-IPC-HFW7442H-Z4FR

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

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

- · 4MP, 1/1.8" CMOS image sensor, low illuminance, high image definition
- · 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 people counting, face recogni tion, 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 grade
- · Anti-corrosion coating(optional)
- · 12V DC power output, max. current 165mA, easy for installation











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.

Face Recognition

Dahua Face Recognition technology extracts the features of captured faces and compares them with that in face database to recognize the person identity.

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.

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.

Privacy Protection

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

Technical S	pecification						Support human body, human face, motor vehicle
Camera				Video Metadata	and non-motor vehicle image capture and attributes extraction.		
Image Sensor		1/1.8" 4Meg	apixel progres	ssive CMOS			Support tripwire number counting, people counting in
Max. Resolution		2688 (H) × 1520 (V)				People Counting	area, and displaying and outputting yearly/monthly/daily reports. Support queue management, and displaying and outputting monthly/daily reports. Support 4 tripwire rules configuration, people counting in 4 areas, and 4 queue management functions
ROM	ROM		16 GB				
RAM		2 GB					
Scanning Syste	·m	Progressive					Work together with Smart NVR to perform refine
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s				Intelligent Search	intelligent search, event extraction and merging to event videos.
Min. Illumination		0.001 Lux@F1.6 (Color, 30IRE) 0.0002 Lux@F1.6 (B/W, 30IRE) 0 Lux (Illuminator on)				Video	LI 264 LI 264L LI 264P MIREC/ophysupported
S/N Ratio		> 56 dB				Video Compression	H.265, H.264, H.264H, H.264B, MJPEG(only supported by sub stream)
Illumination Di	stance	120 m (393.7	'0 ft)			Smart Codec	Smart H.265+/ Smart H.264+
Illuminator On	/Off Control	Auto/Manua	I				Main Stream: 2688 × 1520 (1–50/60 fps) Sub stream: 704 × 576 (1–25fps);704 × 480 (1–30fps)
Illuminator Number		4 (IR LED)				Video Frame Rate	Third stream: 1920 × 1080 (1–25/30 fps) Fourth stream: 1920 × 1080 (1–25/30 fps)
Pan/Tilt/Rotat	ion Range	Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°				Stream Capability	Fifth stream: 704 × 576 (1–25fps);704 × 480 (1–30fps) 5 streams
Lens					4M (2688 × 1520), 3M (2304 × 1296),		
Lens Type		Motorized vari-focal				Resolution	1080 (1920 × 1080), 1.3M (1280 × 960), 720p (1280 × 720), D1 (704 × 576/704 × 480), VGA (640 × 480), CIF (352 × 288/352 × 240)
Mount Type	Mount Type		Module interface			Bit Rate Control	CBR/VBR
Focal Length		8 mm-32 mm				Video Bit Rate	H.264: 32–10240 kbps
Max. Aperture		F1.6 (Constant)					H.265: 12–10240 kbps
Field of View	Field of View		Horizontal: 40° (W)–15° (T) Vertical: 23° (W)–9° (T) Diagonal: 46° (W)–18° (T)			Day/Night	Auto (ICR)/Color/B/W
Iris Type		Auto;Precise iris control				BLC	Yes
Close Focus Di	stance	W: 2.5 m (8.20 ft)				HLC	Yes
Close Focus Di	Close Focus Distance		ft) Observe	Pocognizo	Idontify	WDR	140 dB
DOBI	Lens	Detect 151 m	60.7 m	Recognize 30.3 m	Identify 15.1 m	Scene Self-adaptation (SSA)	Yes
DORI Distance	W	(495.4 ft) 400 m	(199.15 ft) 160 m	(99.41 ft) 80 m	(49.54 ft) 40 m	White Balance	Auto/natural/street lamp/outdoor/manual/regional Custom
	Т	(1312.34 ft)	(524.93 ft)	(262.47 ft)	(131.23 ft)	Gain Control	Auto/Manual
Smart event						Noise Reduction	3D NR
IVS		Abandoned object, moving object				Motion Detection	OFF/ON (4 areas, rectangular)
Professional	, intelligent					Region of Interest (RoI)	Yes (4 areas)
IVS (Perimeter	IVS (Perimeter Protection)		Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human); parking detection, loitering			Electronic Image Stabilization (EIS)	Yes
Face Recognition		detection, and people gathering. Face recognition, track, priority, snapshot, face enhancement, face exposure Face attribute extract, 6 attributes and 8 expressions: Gender, age, glasses, expressions (anger, sadness, disgust, fear, surprise, calm, happiness and confusion), mask, beard Face matting setting: face, single inch photo Two snapshot strategies: priority snapshot, recognition Face angle filter Priority time setting Management of 5 group face libraries Single person register and person register in batch Face recognition and similarity setting Max supports face contrast in face library with 200,000 faces			ot, face	Smart Illumination	Yes
					B expressions:	Defog	Yes
						Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $1080p$ resolution or below.)
						Mirror	Yes
						Privacy Masking	4 areas
					er in batch	Audio	
					ry with	Audio Compression	G.711a; G.711Mu; G726; G.723
	Support Duration Optimal, Non-living Filtering			ering			

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 Recognition; people counting in area; stay alarm; people counting; people counting exception detection; safety exception, Queue Management
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Network

RJ-45 (10/100/1000 Base-T)	
Yes	
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	
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	
ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P;RTMP	
20(Total bandwidth: 80M)	
FTP; Micro SD card (256 G); NAS; SFTP	
IE: IE9 and later Chrome: Chrome 42 and later Firefox: Firefox 48.0.2 and later	
Smart PSS; DSS; DMSS	
IOS, Android	

Certification

Certifications	CE-LVD:EN62368-1,EN60950-22(optional) 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,Ul 50E NEMA Type 4X (optional)
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Port

RS-485	1 (baud rate range: 1200 bps–115200 bps)	
Audio Input	Audio Interface: 1/1 channel In/Out	
Audio Output	Addio Interface: 1/1 chaffier in/Out	
Alarm Input	3 channel In: 5mA 5V DC 2 channel Out: 1000mA 30V DC/500mA 50V AC	
Alarm Output		

Power

Power Supply	12V DC/24V AC/PoE+ (802.3at); ePoE
Power Consumption	Basic power consumption: 3.7W (12V DC); 5.7W(24V AC); 5.5W (PoE) Max. power consumption (Max. stream + intelligent function + IR LED + focus): 12.2W (12V DC);17.3W(24V AC); 17.1W (PoE) Heat power consumption: 3.3W (12V DC);5.5W(24V AC); 5.5W (PoE)

Environment

Operating Conditions	-40°C to +60°C (-40°F to +140°F)/Less than 95% RH	
Storage conditions	-40°C to +60°C (-40°F to +140°F)	
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	
	DH-IPC- HFW7442HP-Z4FR	4MP IR Bullet WizMind Network Camera, PAL	
43.40.6	IPC-HFW7442HP- Z4FR	4MP IR Bullet WizMind Network Camera,PAL	
4MP Camera	DH-IPC- HFW7442HN-Z4FR	4MP IR Bullet WizMind Network Camera, NTSC	
	IPC-HFW7442HN- Z4FR	4MP IR Bullet WizMind Network Camera,NTSC	
Accessories (optional)	PFA154	Pole Mount	

Accessories

Optional:



PFA154

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Dimensions (mm/inch)





