



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" 4Megapixel progressive 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		16 GB					
RAM		2 GB					
Scanning Syste	Scanning System		Progressive			Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s					
Min. Illumination		0.001 Lux@F1.6 (Color, 30IRE) 0.0002 Lux@F1.6 (B/W, 30IRE) 0 Lux (Illuminator on)				Video	H.265, H.264, H.264H, H.264B, MJPEG(only supported
S/N Ratio		> 56 dB				Video Compression	by sub stream)
Illumination Di	stance	120 m (393.70 ft)			Smart Codec	Smart H.265+/ Smart H.264+	
Illuminator On,	/Off Control	Auto/Manual					Main Stream: 2688 × 1520 (1–50/60 fps) Sub stream: 704 × 576 (1–25fps);704 × 480 (1–30fps)
Illuminator Nu	Illuminator Number		4 (IR LED)		Video Frame Rate	Substream: 1920 × 1080 (1–25/30 fps) Fourth stream: 1920 × 1080 (1–25/30 fps) Fourth stream: 1920 × 1080 (1–25/30 fps) Fifth stream: 704 × 576 (1–25fps);704 × 480 (1–30fps)	
Pan/Tilt/Rotat	ion Range	Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°				Stream Capability	5 streams
Lens					4M (2688 × 1520), 3M (2304 × 1296), 1080 (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		Resolution			
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	Max. Aperture		F1.6 (Constant)			H.265: 12–10240 kbps	
Field of View		Horizontal: 40° (W)–15° (T) Vertical: 23° (W)–9° (T) Diagonal: 46° (M), 18° (T)		Day/Night	Auto (ICR)/Color/B/W		
Iris Type		Diagonal: 46° (W)–18° (T) Auto;Precise iris control				BLC	Yes
Close Focus Di	stance	W: 2.5 m (8.20 ft)				HLC	Yes
Close I ocus Di.		T: 6 m (19.69 ft)		WDR	140 dB		
DOBI	Lens	Detect 151 m	Observe 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 Protection)		Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human); parking detection, loitering			etection	Electronic Image Stabilization (EIS)	Yes
		detection, and people gathering. Face recognition, track, priority, snapshot, face			ot, face	Smart Illumination	Yes
Face Recognition		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				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	
					y with	Audio Compression	G.711a; G.711Mu; G726; G.723
		Support Duration Optimal, Non-living Filtering					

Alarm

Network

Network R.	RJ-45 (10/100/1000 Base-T)	
SDK and API	Yes	
Cyber Security end of the control of	ideo encryption; firmware encryption; configuration ncryption; Digest; WSSE; account lockout; security ogs; IP/MAC filtering; generation and importing of .509 certification; syslog; HTTPS; 802.1x; trusted oot; trusted execution; trusted upgrade	
Protocol R ^R Q	v4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; TCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; ioS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPoE; 802.1x; SNMP; Bonjour	
Interoperability	NVIF (Profile S/Profile G/Profile T); CGI; Milestone; enetec; P2P;RTMP	
User/Host 20	O(Total bandwidth: 80M)	
Storage F	TP; Micro SD card (256 G); NAS; SFTP	
Browser Cl	IE: IE9 and later Chrome: Chrome 42 and later Firefox: Firefox 48.0.2 and later	
Management Software Sr	mart PSS; DSS; DMSS	
Mobile Phone	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,UI 50E NEMA Type 4X (optional)

Port

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

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

Celling Mount	Wa ll Mount	Ce ili ng Mount
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Dimensions (mm/inch)





