

DH-IPC-HFW7442H-ZFR

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
- \cdot H.264&H.265 coding, high compression ration \cdot 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 recognition, perimeter protection etc
- \cdot 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 protectiongrade
- · 12V DC power output, max. current 165mA, easy for installation











ePol

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.

Privacy Protection

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

Technical Specification			People Counting	Support tripwire number counting, people counting in area, and displaying and outputting yearly/monthly/daily reports. Support queue management, and displaying and outputting monthly/daily reports.			
Camera							
Image Sensor		1/1.8" 4Megapixel progressive CMOS				, copie counting	Support 4 tripwire rules configuration, people counting in 4 areas, and 4 queue management
Max. Resolution		2688 (H) × 1520 (V)					functions Work together with Smart NVR to perform refine
ROM		16 GB				Intelligent Search	intelligent search, event extraction and merging to event videos.
RAM		2 GB	2 GB			Video	
Scanning Syst	Scanning System		Progressive			Video Compression	H.265, H.264, H.264H, H.264B, MJPEG(only supported
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s				Smart Codec	by sub stream) Smart H.265+/ Smart H.264+
Min. Illumina	Min. Illumination		0.001 Lux@F1.2, 0Lux@F1.2(IR ON)			Smart couce	Main Stream: 2688 × 1520 (1–50/60 fps)
S/N Ratio		> 56 dB				Video Frame Rate	Sub stream: 704 × 576 (1–25fps);704 × 480 (1–30fps) Third stream: 1920 × 1080 (1–25/30 fps) Fourth stream: 1920 × 1080 (1–25/30 fps) Fifth stream: 704 × 576 (1–25fps);704 × 480 (1–30fps)
Illumination [Distance	60m (196.85	60m (196.85 ft)				
Illuminator O	n/Off Control	Auto/Manua	al			Stream Capability	5 streams
Illuminator N		4 (IR LED) Pan: 0°-360° Tilt: 0°-90°				Resolution	4M (2688 × 1520), 3M (2304 × 1296), 1080p (1920 × 1080), 1.3M (1280 × 960), 720p (1280 × 720), D1 (704 × 576/704 × 480), VGA (640 × 480), CIF (352 × 288/352 × 240)
Pan/Tilt/Rota	uon kange	Rotation: 0°	–360°			Bit Rate Control	CBR/VBR
Lens			Video Bit Rate	H.264: 32–10240 kbps H.265: 12–10240 kbps			
Lens Type		Motorized vari-focal				Day/Night	Auto (ICR)/Color/B/W
	Mount Type		Module interface			BLC	Yes
Max. Apertur	Focal Length Max. Aperture		2.7mm-12 mm F1.2			HLC	Yes
Field of View			Horizontal: 114°(W)–47°(T) Vertical: 59°(W)–27°(T)			WDR	140 dB
Iric Typo			Diagonal: 141° (W–55°(T)			Scene Self-adaptation	Yes
	Iris Type Close Focus Distance		Auto;Precise iris control W: 1 m (3.28ft) T: 2.5 m (8.20ft)			White Balance	Auto/aatural/street lamp/outdoor/manual/regional custom
	Lens	Detect	Observe	Recognize	Identify	Gain Control	Auto/Manual
DORI	W	60.1 m	24 m	12 m	6 m	Noise Reduction	3D NR
Distance	_	(187.19 ft) 128.6 m	(78.74 ft) 51.4 m	(39.37 ft) 25.7 m	(19.69 ft) 12.8 m	Motion Detection	OFF/ON (4 areas, rectangular)
	T	(421.92 ft)	(168.64 ft)	(84.32 ft)	(41.99 ft)	Region of Interest(RoI)	Yes (4 areas)
Smart even	it					Electronic Image Stabilization(EIS)	Yes
IVS		Abandoned object, moving object				Smart Illumination	Yes
Professiona	al, intelligent					Defog	Yes
IVS (Perimete	IVS (Perimeter Protection)		Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human); parking detection, loitering			Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 1080p resolution or below.)
,		detection, and people gathering.			i, ioiteinig	Mirror	Yes
		Face recognition, track, priority, snapshot, face enhancement, face exposure, face attribute extract,				Privacy Masking	4 areas
Face Recognition		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 Support Duration Optimal, Non-living Filtering			ige, glasses,	Audio	
					eard	Audio Compression	G.711a; G.711Mu; G726; AAC; G.723
					ot, recognition	Alarm	
					r and person nilarity setting y with	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; defects detection; external
Video Metadata		Support human body, human face, motor vehicle and non-motor vehicle image capture and attributes extraction.			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		
Network	RJ-45 (10/100/1000 Base-T)	
SDK and API	Yes	
Protocol	HTTP; Https; 802.1x; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; SNMP; QoS; UPnP; NTP; SFTP; RTMP; Genetec; Bonjour; Multicast	
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; Dahua Cloud	
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: UL60950-1 CAN/CSA C22.2 No.60950-1-07

Port

RS-485	1 (baud rate range: 1200 bps–115200 bps)	
Audio Input	Audio Interface: 1/1 channel In/Out	
Audio Output		
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)
Power Consumption	<17.3W

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	

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

Ordering Information				
Туре	Part Number	Description		
	DH-IPC- HFW7442HP-ZFR	4MP IR Bullet WizMind Network Camera,PAL		
4N 4D C	IPC-HFW7442HP- ZFR	4MP IR Bullet WizMind Network Camera,PAL		
4MP Camera	DH-IPC- HFW7442HN-ZFR	4MP IR Bullet WizMind Network Camera,NTSC		
	IPC-HFW7442HN- ZFR	4MP IR Bullet WizMind Network Camera,NTSC		
Accessories (optional)	PFA154	Pole Mount		

Accessories

Optional:



PFA154

Pole Mount	Wall-Mount	Junction Mount
DH-PFA154		
	9	

Dimensions (mm/inch)





