



DH-IPC-HFW7442H-Z

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

Face Detection

Dahua Face Detection technology can detect the face in the image. With deep learning algorithm, the technology supports detecting, tracking, capturing and selecting the best face image, and then outputs face snapshot.

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.

- · 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 detec tion, perimeter protection etc
- · Alarm: 3 in, 2 out; audio: 1 in, 1 out; RS-485; BNC; supports max. 256 G
- · 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
- · 12V DC power output, max. current 165mA, easy for installation













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.

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.

Privacy Protection

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

ANPR

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.



Technical S	Specification	1						ANPR, track, priority, snapshot
Camera							ANPR	Vehicle attributes: license plate, vehicle type, vehicle color, vehicle brand
Image Sensor		1/1.8" 4Megapixel progressive CMOS						Other attributes: sun visor, seat belt, smoking, phoning, in-car accessories, annual vehicle inspection
Max. Resolution		2688 (H) × 1520 (V)						mark
ROM		4 GB					Video Metadata	Support human body, human face, motor vehicle and non-motor vehicle image capture and attributes extraction.
RAM		2 GB						
Scanning System		Progressive					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. Support 4 tripwire rules configuration, people counting in 4 areas, and 4 queue management functions
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s						
Min. Illumination		0.001 Lux@F1.2						
S/N Ratio		> 56 dB						
Illumination Distance		60m (196.85 ft)					Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.
Illuminator Or	Illuminator On/Off Control		Auto/Manual				Video	event videos.
Illuminator Nu	ımber	4 (IR LED)						H.265, H.264, H.264H, H.264B, MJPEG(only supported
Pan/Tilt/Rota	tion Range	Pan: 0°–360° Tilt: 0°–90°					Video Compression	by sub stream)
, ,	Ü	Rotation: 0°–360°					Smart Codec	Smart H.265+/ Smart H.264+
Lens							Video Frame Rate	Main Stream: 2688 × 1520 (1–50/60 fps) 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)
Lens Type		Motorized vari-focal						
Mount Type Focal Length		Module interface 2.7mm–12 mm					Stream Capability	Fifth stream: 704 × 576 (1–25fps);704 × 480 (1–30fps) 5 streams
,		F1.2					Stream capability	4M (2688 × 1520), 3M (2304 × 1296), 1080p (1920 ×
Max. Aperture Field of View		Horizontal: 114°(W)–47°(T) Vertical: 59°(W)–27°(T)					Resolution	1080), 1.3M (1280 × 960), 720p (1280 × 720), D1 (704 × 576/704 × 480), VGA (640 × 480), CIF (352 × 288/352 × 240)
Iris Type		Diagonal: 141° (W–55°(T) Auto; Precise iris control					Bit Rate Control	CBR/VBR
Close Focus D	Close Focus Distance		W: 1 m (3.28ft) T: 2.5 m (8.20ft)				Video Bit Rate	H.264: 32 kbps–10240 kbps H.265: 12 kbps–10240 kbps
	Lens	Detect	Observe	Recognize	Identify		Day/Night	Auto (ICR)/Color/B/W
DORI	W	60.1 m	24 m	12 m	6 m		BLC	Yes
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		HLC	Yes
	Т	(421.92 ft)	(168.64 ft)	(84.32 ft)	(41.99 ft)		WDR	140 dB
Smart even	t						Scene Self-adaptation	Yes
IVS		Abandoned object, moving object					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Professional, intelligent		Trinuing intrusion fact maying (the three functions					Gain Control	Auto/Manual
IVS (Perimeter Protection)		Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human); parking detection, loitering					Noise Reduction	3D NR
Face Detection		detection, and people gathering.					Motion Detection	OFF/ON (4 areas, rectangular)
		Face detection, track, priority, snapshot, Upload Optimized snapshot picture; face					Region of Interest(RoI)	Yes (4 areas)
		enhancement, face exposure, face attribute extract, 6 attributes and 8 expressions: Gender, age, glasses,					Electronic Image Stabilization(EIS)	Yes
		expressions (anger, sadness, disgust, fear, surprise, calm, happiness and confusion), Mouth mask, beard; Face matting setting: face, single inch photo Three snapshot; methods: real-time snapshot, priority snapshot, quality priority; Face angle filter Priority time setting; Support Duration Optimal, Non-living Filtering;					Smart Illumination	Yes
							Defog	Yes
							Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p
							Mirror	resolution or below.) Yes

Mirror

Yes

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Privacy Masking	4 areas				
Audio					
Audio Compression	G.711a; G.711Mu; G726; AAC; G.723				
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; seene changing; audio detection; defocus detection; external alarm; face detection; people counting in area; stay alarm; people counting; people counting exception detection; safety exception, Queue Management				
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				
Alarm Output	2 channel Out: 1000mA 30V DC/500mA 50V AC				
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)				
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Net Weight	1600g (3.53 lb)
Gross Weight	2400g (5.29 lb)

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

Accessories

Optional:



PFA154

Pole Mount	Wall-Mount	Junction Mount
DH-PFA154		
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Dimensions (mm/inch)





