



# DH-IPC-HFW7442H-Z4

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 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
- · 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.

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 Specification						ANPR	ANPR, track, priority, snapshot Vehicle attributes: license plate, vehicle type, vehicle color,vehicle brand Other attributes: sun visor, seat belt, smoking, phoning, in-car accessories, annual vehicle inspection
Camera							
Image Sensor		1/1.8" 4Megapixel progressive CMOS					
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
RAM		2 GB					extraction.
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/Manua	l 1/3 s–1/1000	000 s			
Min. Illumination		0.001 Lux@	F1.6				
S/N Ratio		> 56 dB					Work together with Smart NVR to perform refine
Illumination Distance		120m (393.7	O ft)			Intelligent Search	intelligent search, event extraction and merging to event videos.
Illuminator On	/Off Control	Auto/Manual				Video	
Illuminator Number		4 (IR LED)				Video Compression	H.265, H.264, H.264H, H.264B, MJPEG(only supported
Pan/Tilt/Rotation Range		Pan: 0°-360° Tilt: 0°-90°				Smart Codec	by sub stream)  Smart H.265+/ Smart H.264+
, ,	J	Rotation: 0°–360°				Siliai i Codec	Main Stream: 2688 × 1520 (1–50/60 fps)
Lens						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)
Lens Type		Motorized va					
Mount Type		Module interface				Stream Capability	5 streams
Focal Length		8 mm-32 mr					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)
Max. Aperture			nt F1.6 through 0° (W)–15° (T	nout the zoom	range)	Resolution	
Field of View		Vertical: 23° Diagonal: 46	(W)-9° (T)			Bit Rate Control	CBR/VBR
Iris Type	Iris Type		iris control			Video Bit Rate	H.264: 32 kbps–10240 kbps H.265: 12 kbps–10240 kbps
Close Focus Di	stance	W: 2.5 m (8.20 ft) T: 6 m (19.69 ft)				Day/Night	Auto (ICR)/Color/B/W
	Lens	Detect	Observe	Recognize	Identify	BLC	Yes
DORI Distance	W	151 m (495.4 ft)	60.7 m (199.15 ft)	30.3 m (99.41 ft)	15.1 m (49.54 ft)	HLC	Yes
Distance	Т	400 m	160 m	80 m	40 m	WDR	140 dB
Consort account		(1312.34 ft)	(524.93 ft)	(262.47 ft)	(131.23 ft)	Scene Self-adaptation	Yes
Smart event		Abandoned of	object, moving	g object		White Balance	Auto/natural/street lamp/outdoor/manual/regional Custom
Professiona	l, intelligent					Gain Control	Auto/Manual
	, ,	Tripwire, intrusion, fast moving (the three functions				Noise Reduction	3D NR
IVS (Perimeter Protection)		support the classification and accurate detection of vehicle and human); parking detection, loitering				Motion Detection	OFF/ON (4 areas, rectangular)
Face Detection		detection, and people gathering.  Face detection, track, priority, snapshot, Upload				Region of Interest(RoI)	Yes (4 areas)
		Optimized sr enhancemer	apshot pictur it, face exposi		ute extract,	Electronic Image Stabilization(EIS)	Yes
		expressions	anger, sadnes	s, disgust, fear sion), Mouth r	r, surprise,	Smart Illumination	Yes
				single inch ph		Defog	Yes
		priority;	al-time snapsh Iter Priority tir	., ,	apshot, quality	Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $1080p$ resolution or below.)
				Non-living Filt	ering;	Mirror	Yes

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; scene changing; audio detection; defocus detection; externalarm; 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 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)	
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 $\times$ 108.5 mm $\times$ 92.9 mm (13.39" $\times$ 4.27" $\times$ 3.66") (L $\times$ W $\times$ 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-Z4	4MP IR Bullet WizMind Network Camera,PAL				
4MP Camera	IPC-HFW7442HP-Z4	4MP IR Bullet WizMind Network Camera,PAL				
4MP Camera	DH-IPC- HFW7442HN-Z4	4MP IR Bullet WizMind Network Camera, NTSC				
	IPC-HFW7442HN-Z4	4MP IR Bullet WizMind Network Camera, NTSC				
Accessories (optional)	PFA154	Pole Mount				

# Accessories

## Optional:



PFA154

Pole Mount	Wall-Mount	Junction Mount
DH-PFA154		
	<b>D</b>	

# Dimensions (mm/inch)





