



# 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
- · 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
- · 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 Specification						Video Marke deka	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				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
Max. Resolution		2688 (H) × 1520 (V)					
ROM		16 GB					
RAM		2 GB					
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@F1.2 (Color, 30IRE) 0.0002 Lux@F1.2 (B/W, 30IRE) 0 Lux (Illuminator on)				Video Compression	H.265, H.264, H.264H, H.264B, MJPEG(only supported
S/N Ratio	S/N Ratio					video Compression	by sub stream)
Illumination D	Illumination Distance		5 ft)			Smart Codec	Smart H.265+/ Smart H.264+
Illuminator On	/Off Control	Auto/Manual					Main Stream: 2688 × 1520 (1–50/60 fps)
Illuminator Number		4 (IR LED)				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)
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					
Lens	lens					Stream Capability	5 streams
Lens Type		Motorized vari-focal				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 ×
Mount Type		Module interface					288/352 × 240)
Focal Length		2.7 mm-12 mm				Bit Rate Control	CBR/VBR
Max. Aperture		F1.2				Video Bit Rate	H.264: 32–10240 kbps H.265: 12–10240 kbps
Field of View		Horizontal: 114° (W)-47° (T) Vertical: 59° (W)-27° (T) Diagonal: 141° (W)-55°(T)				Day/Night	Auto (ICR)/Color/B/W
Iris Type		Auto;Precise iris control				BLC	Yes
Close Focus Distance		W: 1 m (3.28ft) T: 2.5 m (8.20ft)				HLC	Yes
	Lens	Detect	Observe	Recognize	Identify	WDR	140 dB
DORI Distance	W	60.1 m (187.19 ft)	24 m (78.74 ft)	12 m (39.37 ft)	6 m (19.69 ft)	Scene Self-adaptation (SSA)	Yes
	Т	128.6 m (421.92 ft)	51.4 m (168.64 ft)	25.7 m (84.32 ft)	12.8 m (41.99 ft)	White Balance	Auto/aatural/street lamp/outdoor/manual/regional custom
Smart event	Ì					Gain Control	Auto/Manual
IVS		Abandoned object, moving object				Noise Reduction	3D NR
Professional, intelligent				Motion Detection	OFF/ON (4 areas, rectangular)		
IVS (Perimeter Protection)		Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human); parking detection, loitering detection, and people gathering.				Region of Interest (RoI)	Yes (4 areas)
						Electronic Image Stabilization (EIS)	Yes
		Face recognition, track, priority, snapshot, face enhancement, face exposure				Smart Illumination	Yes
Face Recognition		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				Defog	Yes
						Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 1080p resolution or below.)
						Mirror	Yes
						Privacy Masking	4 areas
		Management of 5 group face libraries Single person register and person register in batch				Audio	
		Face recognition and similarity setting Max supports face contrast in face library with 200,000 faces				Audio Compression	G.711a; G.711Mu; G726; G.723

Support Duration Optimal, Non-living Filtering

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			
Network				
Network	RJ-45 (10/100/1000 Base-T)			
SDK and API	Yes			
Cyber Security	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			
Protocol	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			
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			
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,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)			
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 2 channel Out: 1000mA 30V DC/500mA 50V AC			
Alarm Output	2 CHAIRTEI OUT: 1000THA 50V DC/500THA 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			

-40°C to +65°C (-40°F to +149°F)

Storage conditions

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)	

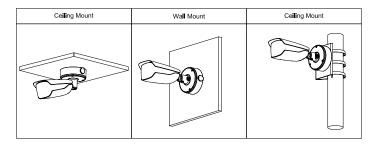
Ordering Information						
Туре	Part Number	Description				
	DH-IPC- HFW7442HP-ZFR	4MP IR Bullet WizMind Network Camera,PAL				
ANAD Comeans	IPC-HFW7442HP- ZFR	4MP IR Bullet WizMind Network Camera,PAL				
4MP Camera	DH-IPC- HFW7442HN-ZFR	4MP IR Bullet WizMind Network Camera,NTSC				
	IPC-HFW7442HN- ZFR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

## **Accessories**

# **Optional:**



PFA154



# Dimensions (mm/inch)

