

# DH-IPC-HFW7842H-ZVH

8MP 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

#### 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. The camera can count targets by directions (A>B, B>A, or A<>B), and export the report.

#### 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.

- $\cdot$  8MP, 1/1.8" CMOS image sensor, low illuminance, high image definition.
- $\cdot$  Max outputs 8MP (3840  $\times$  2160) @25fps/30fps.
- $\cdot$  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 ANPR, parking space management, video metadata.
- · Alarm: 3 in, 2 out; audio: 1 in, 1 out; RS-485; BNC; supports max. 256 G SD card.
- 24 VAC/12 VDC/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).
- $\cdot$  12 VDC power output, max. current 165mA , easy for installation.



#### **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.

#### 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.

#### Parking Space Management

With Parking Space Management, the camera can count the number of parked vehicles and parking spaces available in outdoor parking lots and planned parking lots. It can extract and display the status of parking spaces, so as to facilitate the management of parking spaces and improve parking efficiency.

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### **Technical Specification**

### Camera

Camera					
Image Sensor		1/1.8"CMOS			
Effective Pixels		3840 (H) × 2160 (V)			
ROM		4 GB			
RAM		2 GB			
Scanning Syste	m	Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s			
Min. Illumination		0.003 lux@F1.2 (Color, 30 IRE) 0.0003 lux@F1.2 (B/W, 30 IRE) 0 lux (Illuminator on)			
S/N Ratio		> 56 dB			
Illumination Distance		60 m (196.85 ft)			
Illuminator On/Off Control		Auto; manual			
Illuminator Number		4 (IR LED)			
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°			
Lens					
Lens Type		Motorized vari-focal			
Mount Type		Module interface			
Focal Length		2.7 mm–12 mm			
Max. Aperture		F1.2			
Field of View		Horizontal: 114°(W)–47°(T) Vertical: 59°(W)–27°(T) Diagonal: 141° (W–55°(T)			
Iris Type		Auto; precise iris control			
Close Focus Distance		W: 1 m (3.28 ft) T: 2.5 m (8.20 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	W	87.2 m (286.09 ft)	34.9 m (114.50 ft)	17.4 m (57.09 ft)	8.7 m (28.54 ft)
	т	186.7 m (612.53 ft)	74.7 m (245.07 ft)	37.3 m (122.38 ft)	18.6 m (61.02 ft)

#### Smart event

IVS	Abandoned object, moving object
Professional, intelligent	
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.
ANPR	ANPR: ANPR, track, priority, snapshot. Vehicle attributes: License plate, vehicle type, vehicle color. Other attributes: Seat belt, smoking, calling. Support up to 10,000 blocklist and allowlist records. The camera can recognize plate numbers of vehicles moving at speeds of up to 60km/h.

Parking Space Management	Manage outdoor and planned parking lots; manage parking spaces in multiple areas; display the total number of parking spaces and parking spaces that are available; trigger alarms based on a predefined number of vehicles.
Video Metadata	Support human body, human face, motor vehicle and non-motor vehicle image capture, attributes extraction, counting targets by directions (A>B, B>A, or A<>B), and exporting the report.
Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.
Video	
Video Compression	H.265, H.264,H.264H,H.264B, MJPEG (only supported by sub stream)
Smart Codec	Smart H.265+/ Smart H.264+
Video Frame Rate	Main Stream: 3840 × 2160 (1–25/30 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) Fifth stream: 704 × 576 (1–25fps);704 × 480 (1–30fps)
Stream Capability	5 streams
Resolution	8M (3840 × 2160), 6M (3072 × 2048/3072 × 1728), 5M (2592 × 1944), 4M (2688 × 1520), 3M (2048 × 1536/2304 × 1296), 1080p (1920 × 1080), 1.3M (1280 × 960), 720p (1280 × 720), D1 (704 × 576/704 × 480), VGA (640 × 480), CIF (352 × 288/352 × 240)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 32 kbps-16384 kbps H.265: 12 kbps-16384 kbps
Day/Night	Auto (ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	120 dB
Scene Self-adaptation	Yes
White Balance	Auto; natural; street lamp; outdoor; manual; regional Custom
Gain Control	Auto; manual
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest(RoI)	Yes (4 areas)
Electronic Image Stabilization(EIS)	Yes
Smart Illumination	Yes
Defog	Yes
Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 2688 × 1520 resolution and lower)
Mirror	Yes
Privacy Masking	8 areas
Audio	
Audio Compression	G.711a; G.711Mu; G726; G.723

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Alarm Event

No SD card, SD card full, SD card error, network disconnected, IP conflict, motion detection, video tempering detection, tripwire, intrusion, abandoned object, missing object, scene changing, audio abnormal, defocus detection, loitering detection, people gathering, fast moving, parking detection, ParkingLimitDetection, video metadata,

external alarm, illegal access and safety abnormity.

#### 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: 160M)
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 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU

#### 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)

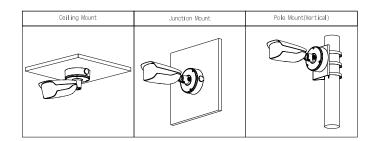
#### **Ordering Information** Туре Part Number Description DH-IPC-HFW7842H-8MP IR Bullet WizMind Network Camera, PAL ZVH 8MP Camera IPC-HFW7842H-ZVH 8MP IR Bullet WizMind Network Camera, NTSC Accessories PFA154 Pole Mount (optional)

#### Accessories

**Optional:** 



PFA154



#### Port

Certifications

Protection Grade

1011	
RS-485	1 (baud rate range: 1200 bps-115200 bps)
Audio Input	1 channel (3.5 mm JACK head)
Audio Output	1 channel (3.5 mm JACK head)
Alarm Input	3 channels in: 5mA 3V–5 VDC
Alarm Output	2 channels out: 1,000mA 30 VDC/500mA 50 VAC
Power	
Power Supply	12 VDC/24 VAC/PoE+ (802.3at); ePoE
Power Consumption	Basic power consumption: 3.7W (12 VDC); 5.7W (24 VAC); 5.5W (PoE) Max. power consumption (Max. stream + intelligent function + IR LED + focus): 12.2W (12 VDC);17.3W (24 VAC); 17.1W (PoE) Heat power consumption: 3.3W (12 VDC);5.5W (24 VAC); 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)

(optional)

FCC: 47 CFR FCC Part 15, Subpart B

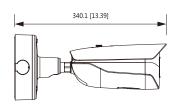
14,UL 50E NEMA Type 4X (optional)

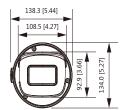
UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-

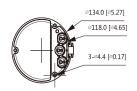
IP67; IK10, Anti-Corrosion Protection: NEMA 4X

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## Dimensions (mm[inch])







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