



# DH-IPC-HFW5842H-Z4HE

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 starlight solution and deep learning algorithm, Dahua WizMind 5 Series network camera has various intelligent functions, including face capture, perimeter protection and people counting, which greatly improve the accuracy of video analysis. The series camera 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.

### 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.

- 8MP, 1/1.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 8MP(3840 × 2160) @25/30 fps
- · H.264&H.265 coding, high compression ration
- · WDR, 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 detection, 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)
- Three streams for two-channel HD video
- IP67, IK10 protection
- 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.

## **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.

# **Queue Management**

With advanced image processing technology and deep leaning algorithm, Dahua Queue Management technology counts people quantity in selected area in real time to realize queue management. It supports multiple polygon areas. When No. in area/strand time is not smaller or not larger than the threshold, it triggers alarm.



Technical	Specification	n					Support tripwire number counting; people counting in
Technical Specification  Camera						area, and displaying and outputting yearly/monthly/daily reports.	
Image Sensor		1/1 8″8Mega	pixel progressi	ve CMOS		People Counting	Support queue management, and displaying and outputting yearly/monthly/daily reports.
Max. Resolution		3840 (H) × 21					Support 4 tripwire rule configuration, people counting in 4 areas, and 4 queue managements.
ROM		4 G					Work together with Smart NVR to perform refine
RAM						Intelligent Search	intelligent search, event extraction and merging to event videos.
Scanning System		2 G Progressive				Video	
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s				Video Compression	H.265; H.264; H.264H; H.264B;MJPEG (only supported by the sub stream)
Min. Illumination		0.005 Lux@F1.6 (Color, 30IRE) 0.0005 Lux@F1.6 (B/W, 30IRE)				Smart Codec	Smart H.265+/H.264+ Main Stream: 3840 × 2160 (1-25/30 fps)
		0 Lux (Illuminator on) > 56 dB				Video Frame Rate	Sub stream: 704 × 576 (1-25 fps)/704 × 480 (1–30 fps) Third stream: 1920 × 1080 (1-25/30 fps)
·	S/N Ratio		(1)			Stream Capability	3 streams
Illumination Distance Illuminator On/Off Control		120 m (393.7 Auto/Manual				Resolution	8M (3840 × 2160); 6M (3072 × 2048/3072 × 1728); 5M (2592 × 1944); 4M (2688 × 1520); CIF (352 × 288/352 × 240); 3M (2048 × 1536/2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704
Illuminator N	Number	4 (IR LED) Pan:0°-360°				Bit Rate Control	× 576/704 × 480); VGA (640 × 480)  CBR/VBR
Pan/Tilt/Rot	Pan/Tilt/Rotation Range		360°				H.264: 32 kbps-16384 kbps
Lens		Rotation:0°-	300			Video Bit Rate	H.265: 12 kbps-16384 kbps
Lens Type		Motorized va	ri-focal			Day/Night	Auto (ICR)/Color/B/W
Mount Type		Module				BLC HLC	Yes
Focal Length		8 mm-32 mm				WDR	120 dB
_		8 mm–32 mm F1.6 (Constant)				Scene Self-adaptation (SSA)	Yes
iviax. Apertu	Max. Aperture		)° (W)–15° (T)			White Balance	Auto/natural/street lamp/outdoor/manual/regional
Field of View	1	Vertical: 40 (W)–13 (T) Diagonal: 45° (W)–17° (T)				Gain Control	custom Auto/Manual
Iris Type		Auto				Noise Reduction	3D NR
Close Focus	Distance	W: 2.5 m (8.2 T: 6 m (19.68	•			Motion Detection	OFF/ON (4 areas, rectangular)
	Lens	Detect	Observe	Recognize	Identify	Region of Interest (RoI)	Yes (4 areas)
DORI Distance	W	218.0 m (715.2 ft)	87.0 m (285.4 ft)	43.0 m (141.1 ft)	21.0 m (68.9 ft)	Electronic Image Stabilization (EIS)	Yes
	Т	580.0 m (1902.9 ft)	232.0 m (761.2 ft)	116.0 m (380.6 ft)	58.0 m (190.3 ft)	Smart Illumination	Yes
Smart Eve	ent	(1902.9 ft) (761.2 ft) (380.6 ft) (190.3 ft)				Defog	Yes
IVS	J110	Ahandoned o	bject; moving	nhiect		Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $1080p$ resolution and lower.)
	nal, intelliger		2,000, 111011116	55,000		Mirror	Yes
FIOLESSIO	riai, iriteiligei		usion, fast mov	ing (the three	functions	Privacy Masking	4 areas
IVS (Perimeter Protection)		support the classification and accurate detection of vehicle and human); parking detection, loitering detection, and people gathering.				Audio	
		Face detection, track, priority, snapshot;				Audio Compression	G.711a; G.711Mu; G726; G.723
Face Detection		Upload Optimized snapshot picture; Face enhancement, face exposure, face attribute extract, 6 attributes and 8 expressions: Gender, age, glasses, 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;				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 detection; people counting in area; stay alarm; people counting; people No. exception detectiong exception detection; safety
		Support Duration Optimal, Non-living Filtering					exception, queue management

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Network	RJ-45 (10/100 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: 160 M)	
Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS	
Browser	IE: IE9 and earlier Chrome: Chrome 42 and earlier Firefox: Firefox 48.0.2 and earlier	
Management Software	Smart PSS; DSS; DMSS	
Mobile Phone	IOS; Android	
Certification		
Certification	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,U 50E NEMA Type 4X (optional)	
Port		
RS-485	1 (baud rate range: 1200 bps–115200 bps)	
Audio Input	1 channel (3.5mm JACK port)	
Audio Output	1 channel (3.5mm JACK port)	
Alarm Input	3 channels in: 5mA 3V–5V DC	
Alarm Output	2 channels out: 1,000mA 30V DC/500mA 50V DC	
Power		
Power Supply	DC12V/AC24V/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 +60°C (-40°F to 140°F)/Less than 95% RH	
Strorage Conditions	-40°C to +60°C (-40°F to +140°F)	
Protection Grade	IP67, IK10, Anti-Corrosion Protection: NEMA 4X (optional)	
Structure		
Casing	Metal + plastic	
Dimensions	340.1 mm × 108.5 mm × 92.9 mm (13.4" × 4.3" × 3.7") (L×W×H)	
Net Weight	1600 g (3.53 lb)	

Gross Weight	2400 g (5.29 lb)
G1033 WCIBITE	2100 6 (3.23 16)

Ordering Information							
Туре	Model	Description					
	DH-IPC-HFW5842HP-Z4HE	8MP IR Bullet WizMind Network Camera, PAL					
8MP	DH-IPC-HFW5842HN-Z4HE	8MP IR Bullet WizMind Network Camera, NTSC					
Camera	IPC-HFW5842HP-Z4HE	8MP IR Bullet WizMind Network Camera, PAL					
	IPC-HFW5842HN-Z4HE	8MP IR Bullet WizMind Network Camera, NTSC					
Accessories (Optional)	PFA154	Pole Mount					

# Accessories

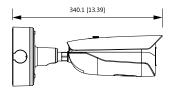
# Optional

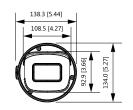


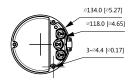
PFA154

Ce <b>ili</b> ng Mount	Wa <b>l</b> Mount	Ce <b>ll</b> ing Mount	
	9		

# Dimensions (mm[inch])







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