



DH-IPC-HFW5842H-Z4HE-S2

8 MP IR Vari-focal 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.

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.

Face Attributes

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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.

- 8-MP 1/1.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 8 MP (3840 × 2160) @30 fps.
- · Max. IR distance: 120 m.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- · Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- · Alarm: 3 in, 2 out; audio: 1 in, 1 out; RS-485, BNC, power output supports max. 256 G Micro SD card.
- · 24 VAC/12 VDC/PoE power supply.
- ePoE, IP67, IK10 protection.
- SMD 3.0.
- · Anti-corrosion model optional.













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 yearly/monthly/daily reports to meet your requirements.

ePoE

Dahua's innovative ePoE technology offers a new solution to transmit power and data over long distances between cameras and network switch, allowing more flexible design of surveillance system, improving reliability, reducing installation time and saving money. ePoE technology encompasses pure network systems where a single CAT6 cable can carry signals up to 300 m (984 ft) at 100 Mbps, 800 m (2625 ft) at 10 Mbps.

Cyber Security

Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising the device.

Protection (IP67, IK10, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J).

Wide voltage: The camera allows $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification

Camera

Image Sensor	1/1.8"CMOS
Max. Resolution	3840 (H) × 2160 (V)
ROM	128 MB
RAM	1 GB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s
Min. Illumination	0.004 lux@F1.4 (Color, 30 IRE) 0.0004 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on)
S/N Ratio	>56 dB
Illumination Distance	120 m (393.7 ft)
Illuminator On/Off Control	Auto; manual; zoomprio
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			
Focal Length		8 mm-32 mm			
Max. Apertu	re	F1.4			
Field of View	1	Horizontal: 42°–14.9° Vertical: 23.3°–8.6° Diagonal: 48.5°–16.9°			
Iris Control		Hall			
Close Focus	Distance	W: 3 m (9.84 ft) T: 5.5 m (18.04 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	W	213.6 m (700.8 ft)	85.4 m (280.2 ft)	42.7 m (140.1 ft)	21.4 m (70.2 ft)
	Т	572.8 m (1879.3 ft)	229.1 m (751.6 ft)	114.6 m (376.0 ft)	70.2 m (188.0 ft)

Smart Event

IVS	Abandoned object; missing object
Heat Map	Yes

Professional, intelligent		
IVS (Perimeter Protection)	Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection	
SMD 3.0	Less false alarm, longer detection distance	
Face Detection	Face detection; track; snapshot optimization; snapshot; face enhancement; face exposure; face matting setting: face, single inch photo; three snapshot methods: real-time snapshot, optimized snapshot, quality priority snapshot; face angle filter; optimization time setting	
People Counting	Support the counting of enter number, leave number and pass number, and displaying and outputting yearly/monthly/daily reports. Support the counting of number in area, and 4 rules configuration. Count number of people or stay time and link alarm. Support queue management, and 4 rules configuration. Count number of people or stay time and link alarm.	
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 the sub stream)	
Smart Codec	Smart H.265+;Smart H.264+	
Al Coding	AI H.265; AI H.264	
Video Frame Rate	Main stream: 3840× 2160 (1 fps–25/30 fps) Sub stream: D1 (1 fps–25/30 fps) Third stream: 1080p (1 fps–25/30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.	
Stream Capability	3 streams	
Resolution	3840 × 2160; 3072 × 2048; 3072 × 1728; 2592 × 1944; 2688 × 1520; 2048 × 1536; 2304 × 1296; 1080p (1920 × 1080); 1.3 MB (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.264:3 kbps-20480 kbps H.265:3 kbps-20480 kbps	
Day/Night	Auto (ICR)/Color/B/W	
BLC	Yes	
HLC	Yes	
WDR	120 dB	

Auto; natural; street lamp; outdoor; manual; regional

Auto; manual

Yes (4 areas)

OFF/ON (4 areas, rectangular)

Electronic Image Stabilization (EIS)

3D NR

Yes

White Balance

Gain Control

Noise Reduction

Motion Detection

Image Stabilization

Defog

Region of Interest (RoI)

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Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 4 M resolution and lower)
Mirror	Yes
Privacy Masking	8 areas
Audio	
Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
Alarm	
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; defocus detection; scene changing; intrusion; tripwire; abandoned object; missing object; fast moving; parking detection; loitering detection; people gathering; input abnormal detection; intensity change detection; people counting; face detection; people counting in area; stay alarm; people No. exception detection; queue management
Network	
Network Port	RJ-45 (10/100 Base-T)
SDK and API	Yes
Cyber Security	Video encryption; configuration encryption; Digest; WSSE; account lockout; security logs; generation and importing of X.509 certification; HTTPS; trusted boot; trusted execution; trusted upgrade
Network 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
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; P2P
User/Host	20 (Total bandwidth: 80 M)
Storage	FTP; SFTP; Micro SD card (Support max. 256 G); NAS
Browser	IE: IE8 and later Chrome Firefox
Management Software	Smart PSS; DSS; DMSS
Mobile Client	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,UL 50E NEMA Type 4X (optional)
Port	
RS-485	1 (baud rate range:1200 bps–115200 bps)
Audio Input	1 channel (3.5 mm JACK port)
Audio Output	1 channel (3.5 mm JACK port)
Alarm Input	3 channels in: 5 mA 3–5 VDC
Alarm Output	2 channels out: 1,000 mA 30 VDC/500 mA 50 VDC
Power	
Power Supply	12 VDC (±25%)/24 VAC (±30%)/PoE (802.3at)/ePoE
Power Consumption	Basic: 5.5 W (12 VDC); 6.0 W (24 VAC); 6.2 W (PoE) Max. (H.265 + 3 streams + Intelligence + IR on + heating) 15.9 W (12 VDC); 18.1 W (24 VAC); 18.7 W (PoE) Heating: 3.3 W (12 VDC); 4.4 W (24 VAC); 3.9 W (PoE)

Environment

Operating Temperature	-40 °C to $+60$ °C (-40 °F to $+140$ °F)/Less than 95% RH
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Protection	IP67, IK10

Structure

Casing	Metal + plastic
Product Dimensions	340.1 mm × 138.3 mm × 134.0 mm (13.39" × 5.44" × 5.28") (L × W × H)
Net Weight	1.6 kg (3.5 lb)
Gross Weight	2.4 kg (5.3 lb)

Ordering Information		
Туре	Model	Description
8MP Camera	DH-IPC-HFW5842H-Z4HE-S2	8 MP IR Vari-focal Bullet WizMind Network Camera
	IPC-HFW5842H-Z4HE-S2	8 MP IR Vari-focal Bullet WizMind Network Camera
	PFA154	Pole Mount Bracket
	PFA155A	Anti-corrosion Pole Mount Bracket
Accessories	PFM320D	12 VDC 2A Power Adapter
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender
	PFM900-E	Integrated Mount Tester

Accessories

Optional:



PFA154 Pole Mount Bracket



PFA155A Anti-corrosion Pole Mount Bracket



PFM320D Series 12 VDC 2A Power Adapter

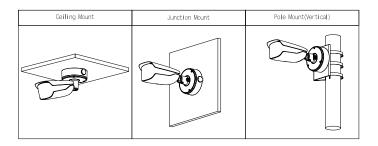


LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extender



PFM900-E Integrated Mount Tester





Dimensions (mm[inch])

