



DH-IPC-HFW5842H-ZHE-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

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.

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
- Outputs max. 8 MP (3840 × 2160) @30 fps.
- · Max. IR distance: 60 m.
- ROI, SVC, SMART H.264 +/H.265+, AI 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.
- Supports P-Iris, the camera can control the iris more precisely for better image effect.
- 24 VAC/12 VDC/PoE power supply.
- ePoE: IP67, IK10 protection, Heater.
- 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 ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage

Technical Specification								Face detection; track; snapshot; snapshot optimization;
Camera								optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes
Image Sensor		1/1.8"CMOS					Face Detection	(gender, age, glasses, expressions, mask, and beard) and 8 expressions (angry, sad, disgusted, scared, surprised, calm, happy, confused); face snapshot set as face or one-inch photo; snapshot strategies (real-time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting.
Max. Resolution		3840 (H) × 2160 (V)						
ROM		128 MB						
RAM		1 GB					and pass number, and displaying and outputting year monthly/daily reports. Support the counting of number in area, and 4 rules configuration. Count number of people or stay time a link alarm. Support queue management, and 4 rules configuration Count number of people or stay time and link alarm. Work together with Smart NVR to perform refine	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.
Scanning System		Progressive						
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 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						intelligent search, event extraction and merging to event
Illumination Distance		60 m (196.9 ft)					Video	
Illuminator On/Off Control		Auto;Manual;Zoomprio					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Illuminator Number		4 (IR LED)					Smart Codec	Smart H.265+;Smart H.264+
Pan/Tilt/Rotation Range		Pan: 0-360° Tilt:0-90° Patrition:0-360°					Al Coding	AI H.265; AI H.264
Lens		Rotation:0-360°					Ü	Main stream: 3840× 2160 (1 fps–25/30 fps)
Lens Type		Motorized vari-focal					Video Frame Rate	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.
Mount Type		ф14						
Focal Length		2.7 mm–12.0 mm					6. 6 1.11.	
Max. Apertu	ire	F1.2					Stream Capability	3 streams
Field of View		Horizontal: 112.1°–47.5° Vertical: 58.0°–26.6° Diagonal: 137.5°–54.6°					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)
Iris Control		Auto					Bit Rate Control	CBR/VBR
Iris Control Type		P-Iris					Video Bit Rate	H.264:3 kbps-20480 kbps
Close Focus Distance		W: 1.75 m (5.7 ft) T: 5.21 m (17.1 ft)						H.265:3 kbps-20480 kbps
	Lens	Detect	Observe	Recognize	Identify		Day/Night	Auto (ICR)/Color/B/W
DORI	W	87.6 m (287.4 ft)	35.04 m (114.96 ft)	17.52 m (57.48 ft)	8.76 m (28.74 ft)		BLC	Yes
Distance	Т	186.6 m	78.64 m	37.32 m	18.66 m		HLC	Yes
Smart Event		(612.2 ft)	(258.0 ft)	(122.44 ft)	(61.22 ft)		WDR	120 dB
	ziit.	Abandanad abject, missing abject					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
IVS		Abandoned object; missing object					Gain Control	Auto; manual
Professional, intellige		Yes					Noise Reduction	3D NR
Tripwire; intrusion; fast moving (the			ving (the three f	unctions		Motion Detection	OFF/ON (4 areas, rectangular)	
IVS (Perimeter Protection)		support the classification and accurate detection of vehicle and human); loitering detection; people					Region of Interest (RoI)	Yes (4 areas)
SMD 2 O		gathering; parking detection					Image Stabilization	Electronic Image Stabilization (EIS)
SMD 3.0		Less false alarm, longer detection distance					Defog	Yes

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 3V–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: 5.5W (12 VDC); 6.0 W (24 VAC); 6.2 W (POE) Max(max. stream + intelligent function + IR LED + focus): 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	$-40~^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (–40 $^{\circ}\text{F}$ to +140 $^{\circ}\text{F}$)/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)			

2.4 kg (5.3 lb)

Ordering Information							
Туре	Model	Description					
8MP	DH-IPC-HFW5842H-ZHE-S2	8 MP IR Vari-focal Bullet WizMind Network Camera					
Camera	IPC-HFW5842H-ZHE-S2	8 MP IR Vari-focal Bullet WizMind Network Camera					
	PFA154	Pole Mount Bracket					
	PFA155A	Anti-corrosion Pole Mount Bracket					
Accessories (Optional)	PFM320D	12 VDC 2A Power Adapter					
	PFM900-E	Integrated Mount Tester					
	TF-P100	MicroSD Memory Card					

Accessories

Gross Weight

Optional:



PFA154 Pole Mount Bracket



PFA155A Anti-corrosion Pole Mount Bracket



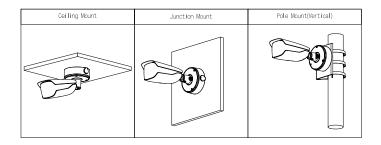


PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card





Dimensions (mm[inch])

