



DH-IPC-HFW5842H-ZHE

8MP 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, IVSS,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

Driven by deep learning algorithms, Dahua WizMind S Series network camera offers a variety of intelligent functions that greatly improve the accuracy of audio and video analysis. It supports video metadata, smart sound detection, face detection, perimeter protection, people counting and more. The camera also adopts advanced image processing Al-Powered Image technology and has the Deeplight night vision effect. The camera is dustproof, waterproof and vandal-proof, and is certified as IP67 and IK10 (the type of protection varies depending on the model).

Functions

AI-Powered Image

With AI ISP technology, the camera is able to easily adapt to scenes, producing high quality images that reveal the fine details of targets.

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.

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.

Smart Sound Detection

With deep learning algorithms, Dahua Smart Sound Detection technology can detect and identify the sound of screams, glass breaking, and more.

- * The parameters and datasheets below can only be applied to 5842-Z-S3 series.
- 8-MP 1/1.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 8 MP (3840×2160) @25/30 fps.
- Built-in IR LED, and the max. illumination distance is 60 m.
- ROI, SVC, SMART H.264+/H.265+, AI H.264/H.265, encoding after filter, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- · With deep learning algorithm, it supports: video metadata, smart sound detection, IVS, face detection, smart object detection, and people counting, etc.
- · Alarm: 3 in, 2 out; audio: 1 in, 1 out; RS-485; analog output; power output; supports max. 512 G Micro SD card, built-in dual MICs.
- 24 VAC/12 VDC/PoE power supply; ePoE.
- IP67 and 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 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.

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 work normally 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								Tripwire people counting, generating and exporting report (day/week/month/year); people counting in area and queue management, generating and exporting report (day/week/month); 4 rules can be set for tripwire, people counting in area and queue management.
Camera							People Counting	
Image Sensor		1/1.8" CMOS						
Max. Resolution		3840 (H) × 2160 (V)					Heat Map	Yes
ROM		4 GB						Motor vehicle, non-motor vehicle, face, human body detection; track; snapshot; snapshot optimization;
RAM		2 GB					Video Metadata	optimal face snapshot upload. Motor vehicle attributes: vehicle type, vehicle color, vehicle logo and other attributes: seatbelt, smoking, calling. Non-motor vehicle attributes: type, color, number of people, top type and color, hat. Human body attributes: gender, top/bottom type and color, bag, hat and umbrella. Face attributes: gender, age, expressions, glasses, face mask and beard.
Scanning System		Progressive						
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s						
Min. Illumination		0.0007 lux@F1.2 (Color, 30 IRE) 0.0003 lux@F1.2 (B/W, 30 IRE) 0 lux (Illuminator on)						
S/N Ratio		>56 dB					Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
Illumination Distance		60 m (196.85 ft) (IR)					Smart Sound Detection	Yes
Illuminator (On/Off Control	Auto; Zoomprio; Manual					Video	
Illuminator Number		4 (IR LED)					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Angle Adjustment		Pan: 0-360° Tilt: 0-90°					Smart Codec	Smart H.265+; Smart H.264+
Lama		Rotation: 0-360°					AI Coding	AI H.265; AI H.264
Lens		Motorized vari-focal						Main stream: 3840 × 2160@ (1–25/30 fps)
	Lens Type		in-local				Video Frame Rate	Sub stream: D1@ (1–25/30 fps) Third stream: 1080p@ (1–25/30 fps) Fourth stream: 720p@ (1–10 fps)
Lens Mount Focal Length		φ14 2.7 mm–12.0 mm					video vidine nate	*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.
Max. Aperture		F1.2					Stream Capability	4 streams
Field of View		H: 112°-48°; V: 58°-27°; D: 137°-55°					от сент серести,	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 ×
Iris Control		Auto					Resolution	1728/2592 × 1944); 4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048 × 1535/2304 × 1296); 1080p (1920 ×
Iris Control Type		P-Iris						1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Close Focus	Distance	1.75 m (5.74 ft)					Bit Rate Control	CBR/VBR
	Lens	Detect 87.6 m	Observe 35.0 m	Recognize 17.5 m	Identify 8.8 m		Video Bit Rate	H.264: 32 kbps–16384 kbps H.265: 12 kbps–13568 kbps
DORI Distance	W	(287.40 ft)	(114.83 ft)	(57.41 ft)	(28.87 ft)		Day/Night	Auto(ICR)/Color/B/W
	Т	186.6 m (612.20 ft)	74.6 m (244.75 ft)	37.3 m (122.38 ft)	18.7 m (61.35 ft)		BLC	Yes
Intelligence							HLC	Yes
EPTZ		Yes					WDR	120 dB
IVS (Perimeter Protection)		Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people					Scene Self-adaptation (SSA)	Yes
,		of venicle and numan); loitering detection, people gathering, and parking detection					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Smart Object Detection		Smart abandoned object; smart missing object					Gain Control	Auto
SMD 3.0		Less false alarm, longer detection distance					Noise Reduction	3D NR
AI SSA		Yes					Motion Detection	OFF/ON (4 areas, rectangular)
Face Detection		Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes and 8 expressions; face snapshot set as face, one-inch photo or custom; snapshot strategies (real-time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting.					Region of Interest (RoI)	Yes (4 areas)
							Image Stabilization	Electronic Image Stabilization (EIS)
							Smart Illumination	Yes

Defog	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 4M (2688×1520)resolution and lower)
Mirror	Yes
Privacy Masking	8 areas
Audio	
Built-in MIC	Yes
Audio Compression	G.711a; G.711Mu; PCM; 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; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; voltage detection; external alarm; face detection; video metadata; SMD; people counting in area; stay detection; people counting; people number error detection; queue people number alarm; queue time alarm; security exception
Network	
Network Port	RJ-45 (10/100 Enhancement Base-T)
SDK and API	Yes
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QOS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPOE; SNMP; P2P
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI
User/Host	20 (Total bandwidth: 80 M)
Storage	FTP; SFTP; Micro SD card (support max. 512 GB); NAS
Browser	IE: IE 9 and later Chrome: Chrome 102 and later Firefox: Firefox 88 and later
Management Software	SmartPSS Lite; DSS; DMSS
Mobile Client	iOS; Android
Cyber Security	Configuration encryption;Trusted execution;Digest;Security logs;WSSE;Account lockout;syslog;Video encryption;802.1x;IP/MAC filtering;HTTPS;Trusted upgrade;Trusted boot;Firmware encryption;Generation and importing of X.509 certification
Certification	
Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14, UL 50E NEMA Type 4X (optional)
Port	
RS-485	1 (baud rate range:1200 bps–115200 bps)
Audio Input	1 channel (terminal)
Audio Output	1 channel (terminal)
Alarm Input	3 channels in: wet contact, 5mA 3V–5V DC
Alarm Output	2 channels out: dry contact, 1,000mA 30V DC/500mA 50V AC
	30 V / 10

Analog Output	1 channel (CVBS output: BNC)		
Power			
Power Supply	12 VDC/24 VAC/PoE (802.3at)/ePoE		
Power Consumption	Basic: 4.5 W (12 VDC); 5.6 W (24 VAC); 6 W (POE) Max. (Focus+WDR+ Intelligence on+IR on): 13.5 W (12 VDC); 15.3 W (24 VAC); 16.9 W (POE) Heating: 3 W (12 VDC); 3.6 W (24 VAC); 3.8 W (POE)		
Environment			
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Operating Humidity	≤95%		
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Storage Humidity	10%–95% (RH), non-condensing		
Protection	IP67; IK10		
Structure			
Casing Material	Metal + plastic		
Product Dimensions	345.6 mm \times 134.2 mm \times 135.1 mm (13.61" \times 5.28" \times 5.32") (L \times W \times H)		
Net Weight	1.6 kg (3.53 lb)		
Gross Weight	2.4 kg (5.29 lb)		

Ordering Information							
Туре	Model	Description					
8MP	DH-IPC-HFW5842H-ZHE	8MP IR Vari-focal Bullet WizMind Network Camera					
Camera	IPC-HFW5842H-ZHE	8MP 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

Optional:



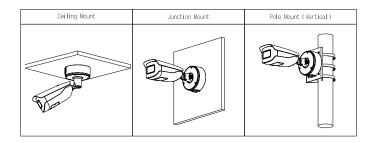
PFA154 Pole Mount Bracket



PFA155A Anti-corrosion Pole Mount Bracket



PFM320D 12 VDC 2A Power Adapter



Dimensions (mm[inch])









