

DH-IPC-HFW5842H-ZHE

8MP IR Vari-focal Bullet WizMind Network Camera



ePoE Wiz Mind

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

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Technical Specification					
Camera					
Image Sensor		1/1.8" CMOS			
Max. Resolution		3840 (H) × 2160 (V)			
ROM		4 GB			
RAM		2 GB			
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			
Illumination Distance		60 m (196.85 ft) (IR)			
Illuminator On/Off Control		Auto; Zoomprio; Manual			
Illuminator Number		4 (IR LED)			
Angle Adjustment		Pan: 0-360° Tilt: 0-90° Rotation: 0-360°			
Lens					
Lens Type		Motorized vari-focal			
Lens Mount		ф14			
Focal Length		2.7 mm-12.0 mm			
Max. Aperture		F1.2			
Field of View	,	H: 112°–48°; V: 58°–27°; D: 137°–55°			
Iris Control		Auto			
Iris Control T	уре	P-Iris			
Close Focus I	Distance	1.75 m (5.74 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	W	87.6 m (287.40 ft)	35.0 m (114.83 ft)	17.5 m (57.41 ft)	8.8 m (28.87 ft)
	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)
Intelligen	ce				
EPTZ		Yes			
IVS (Perimeter Protection)		Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection			
Smart Object Detection		Smart abandoned object; smart missing object			
SMD 3.0		Less false alarm, longer detection distance			
AI SSA		Yes			
		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.

People Counting	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.				
Heat Map	Yes				
Video Metadata	Motor vehicle, non-motor vehicle, face, human body detection; track; snapshot; snapshot optimization; 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.				
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos				
Smart Sound Detection	Yes				
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+				
AI Coding	AI H.265; AI H.264				
Video Frame Rate	Main stream: 3840 × 2160@ (1–25/30 fps) Sub stream: D1@ (1–25/30 fps) Third stream: 1080p@ (1–25/30 fps) Fourth stream: 720p@ (1–10 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	4 streams				
Resolution	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2592 × 1944); 4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048 × 1535/2304 × 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–13568 kbps				
Day/Night	Auto(ICR)/Color/B/W				
BLC	Yes				
HLC	Yes				
WDR	120 dB				
Scene Self-adaptation (SSA)	Yes				
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom				
Gain Control	Auto				
Noise Reduction	3D NR				
Motion Detection	OFF/ON (4 areas, rectangular)				
Region of Interest (RoI)	Yes (4 areas)				
Image Stabilization	Electronic Image Stabilization (EIS)				
Smart Illumination	Yes				

Face Detection



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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				

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 × 134.2 mm × 135.1 mm (13.61" × 5.28" × 5.32") (L × W × H)				
Net Weight	1.6 kg (3.53 lb)				
Gross Weight	2.4 kg (5.29 lb)				

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

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Accessories

Optional:



PFA154 Pole Mount Bracket



PFA155A Anti-corrosion Pole Mount Bracket



PFM900-E

Integrated

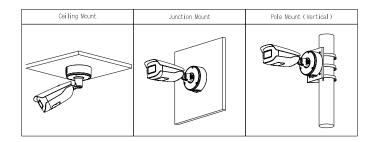
Mount Tester



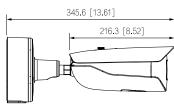
TF-P100 MicroSD Memory Card

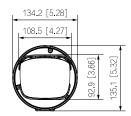


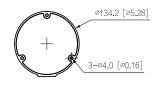
PFM320D 12 VDC 2A Power Adapter



Dimensions (mm[inch])











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