



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 ISP 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-ISP

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

Self-Learning

Empowered by deep learning technology, the device recognizes different types of targets and their statuses through learning and analyzing target features to detect targets and filter out false alarms.

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.

AcuPick

This industry-leading search technology effectively utilizes both frontend and back-end intelligence to help with searching through massive video data to quickly and conveniently locate targets with greater precision.

- * 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. 1 TB Micro SD card, built-in dual Mic.
- 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.

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.



SMD 3.0

SMD

Technical Specification						AcuPick	Uses deep learning algorithms and works with back-end devices to accurately match targets, such as people, animal, and motor vehicles, and search through live and recorded videos to quickly locate targets.	
Camera						ACUFICK		
Image Sensor		1/1.8" CMOS					AISSA	Yes
Max. Resolution		3840 (H) × 2160 (V)					Face detection; track; snapshot; snapshot optimization;	
ROM		4 GB					Face Detection	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 spacehot, quality priority and optimization snapshot).
RAM		2 GB						
Scanning System		Progressive						snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting.
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s						report (day/week/month); 4 rules can be set for tripwire, people counting in area and queue management.
Min. Illumination		0.0007 lux@F1.2 (Color, 30 IRE) 0.0003 lux@F1.2 (B/W, 30 IRE) 0 lux (Illuminator on)					People Counting	
S/N Ratio		>56 dB					Heat Map	Yes Mataryahida nan mataryahida faca human hadu
Illumination Distance		Up to 60 m (196.85 ft) (IR)						Motor vehicle, non-motor vehicle, face, human body detection; track; snapshot; snapshot optimization; optimal face snapshot upload.
Illuminator C	Illuminator On/Off Control		rio; Manual					Motor vehicle attributes: vehicle type, vehicle color, vehicle logo and other attributes : seatbelt, smoking,
Illuminator Number		4 (IR LED)					Video Metadata	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.
Angle Adjustment		Pan: 0-360° Tilt: 0-90° Rotation: 0-360°						
Lens	Lens					Work together with Smart NVR to perform refine		
Lens Type	Lens Type		ari-focal				Smart Search	intelligent search, event extraction and merging to event videos
Lens Mount	Lens Mount						Smart Sound Detection	Yes
Focal Length	ı	2.7 mm-12.0 mm					Video	
Max. Aperture		F1.2					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Field of View		H: 112°-48°; V: 58°-27°; D: 137°-55°					Smart Codec	Smart H.265+; Smart H.264+
Iris Control		Auto					Al Coding	AI H.265; AI H.264
Iris Control Type		P-Iris					0	Main stream: 3840 × 2160@ (1–25/30 fps) Sub stream: D1@ (1–25/30 fps) Third stream: 1080p@ (1–25/30 fps)
Close Focus Distance		1.75 m (5.74 ft)						
	Lens	Detect	Observe	Recognize	Identify		Video Frame Rate	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.
	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	74.6 m	37.3 m	18.7 m		Stream Capability	4 streams
DORI Distance	T (612.20 ft) (244.75 ft) (122.38 ft) (61.35 ft) *DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and						Resolution	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2592 × 1944); 4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048 × 1536/2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
		g manual/project design tool.					Bit Rate Control	CBR/VBR
Intelligence						Video Bit Rate	H.264: 32 kbps–16384 kbps H.265: 12 kbps–13568 kbps	
IVS (Perimeter Protection)		Yes Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle, animal and human); loitering detection, people					Day/Night	Auto(ICR)/Color/B/W
							BLC	Yes
		gathering, parking detection. Supports long-distance mode. Supports self-learning, it filters out false alarms.					HLC	Yes
Smart Object Detection		Smart abandoned object; smart missing object					WDR	120 dB
							6 6 16 1 1 11	

Scene Self-adaptation

(SSA)

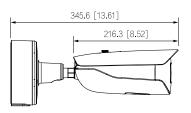
Yes

	custom	Certification	
Gain Control	Auto		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)
Noise Reduction	3D NR	Certifications	
Motion Detection	OFF/ON (4 areas, rectangular)		
Region of Interest (RoI)	ion of Interest (RoI) Yes (4 areas)		
Image Stabilization	Electronic Image Stabilization (EIS)	RS-485	1 (baud rate range:1200 bps–115200 bps)
Smart Illumination	Yes	Audio Input	1 channel (terminal)
Defog	Yes	Audio Output	1 channel (terminal)
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 4M (2688×1520)resolution and lower)	Alarm Input	3 channels in: wet contact, 5mA 3V–5V DC
Mirror	Yes	Alarm Output	2 channels out: dry contact, 1,000mA 30V DC/500mA 50V AC
Privacy Masking	8 areas	Analog Output	1 channel (CVBS output: BNC)
LDC	Yes	Power Output	12 VDC power output, max. current 165 mA, peak current 700 mA
Audio	dio		current 766 m/
Built-in MIC	Yes, built-in dual Mic	Power Supply	12 VDC/24 VAC/PoE+ (802.3at)/ePoE
Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723		When the power adapter and PoE provide power at
Alarm		Dual Power Backup	the same time, disconnect one of them. The device will continue to work, but will not restart.
Alaya Frank	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	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)
Alarm Event	changing; audio detection; voltage detection; external alarm; face detection; video metadata; SMD; people	Environment	
	counting in area; stay detection; people counting; people number error detection; queue people number alarm; queue time alarm; security exception	Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Network	,	Operating Humidity	≤95%
Network Port	RJ-45 (10/100 Enhancement Base-T)	Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
SDK and API	Yes	Storage Humidity	10%–95% (RH), non-condensing
	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP;	Protection	IP67; IK10
Network Protocol	SMTP; FTP; SFTP; DHCP; DNS; DDNS; QOS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPOE; SNMP; P2P;	Structure	
Intono populito.	Auto Register	Casing Material	Metal + plastic
Interoperability User/Host	ONVIF (Profile S/Profile G/Profile T/Profile M); CGI 20 (Total bandwidth: 80 M)	Product Dimensions	345.6 mm × 134.2 mm × 135.1 mm (13.61" × 5.28" × 5.32") (L × W × H)
Storage	FTP; SFTP; Micro SD card (support max. 1 TB); NAS	Net Weight	1.6 kg (3.53 lb)
Storage	IE: IE 9 and later	Gross Weight	2.4 kg (5.29 lb)
Browser	Chrome: Chrome 102 and later Firefox: Firefox 88 and later		
Management Software	SmartPSS Lite; DSS; DMSS		
Mobile Client	iOS; Android		
Security	Trusted execution; Digest; Security logs; WSSE; Account lockout; Syslog; 802.1x; IP/MAC filtering; HTTPS; Trusted upgrade; Trusted boot; Generation and importing of X.509 certification		

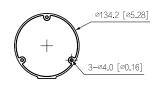
Ordering Information						
Туре	Model	Description				
8MP	DH-IPC-HFW5842H-ZHE	8MP IR Vari-focal Bullet WizMind Network Camera				
Camera	IPC-HFW5842H-ZHE	8MP IR Vari-focal Bullet WizMind Network Camera				
	PFA154	Pole Mount Bracket				
	PFA155A	Anti-corrosion Pole Mount Bracket				
Accessories (Optional)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

Ceiling Mount Junction Mount Pole Mount (Vertical)

Dimensions (mm[inch])







Accessories

Optional:



PFA154 Pole Mount Bracket



PFA155A Anti-corrosion Pole Mount Bracket



PFM320D 12 VDC 2A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card