



DH-IPC-HFW5842E-ZE

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.

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.

- * 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
- Outputs max. 8MP (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: 2 in, 1 out; audio: 1 in, 1 out; supports max. 512 GB Micro SD card, built-in MIC.
- 12 VDC/PoE power supply; ePoE.
- IP67 and IK10 protection.
- SMD 3.0.













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.

Smart Sound Detection

With deep learning algorithm, Dahua Smart Sound Detection technology can detect and identifies the sound of scream and glass breaking, etc.

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.



Tochmina	Specificati	on					Tripwire people counting, generating and exporting		
Technical Specification Camera						People Counting	report (day/week/month/year); people counting in area and queue management, generating and exporting		
Image Sensor		1/1.8" CMOS				r copie counting	report (day/week/month); 4 rules can be set for tripwire, people counting in area and queue management.		
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; 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.		
RAM		2 GB							
		Progressive							
Scanning System						Video Metadata			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s 0.0008 lux@F1.8 (Color, 30 IRE)							
Min. Illumination			F1.8 (B/W, 30 I				Face attributes: gender, age, expressions, glasses, face mask and beard.		
S/N Ratio		>56 dB				Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event		
Illumination	Illumination Distance		196.85 ft) (IR)				videos		
Illuminator (On/Off Control	Auto; Zoomp	rio; Manual			Smart Sound Detection	Yes		
Illuminator I	Illuminator Number					Video	Video		
Angle Adjust	Angle Adjustment		2508			Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)		
Laws			-360°			Smart Codec	Smart H.265+; Smart H.264+		
Lens						Al Coding	AI H.265; AI H.264		
Lens Type Lens Mount		Motorized vari-focal φ14					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		
Focal Length		2.7 mm–12 mm				Video Frame Rate			
Max. Aperture		F1.8					stream; for multiple streams, the values will be subjected to the total encoding capacity.		
Field of View		H: 113°-47°;	V: 60°-26°; D:	133°–53°		Stream Capability	4 streams		
Iris Control	Iris Control						8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728); 5M (2592 × 1944); 4M (2688 × 1520); 3.6M (2560 ×		
Close Focus Distance		1.5 m (4.92 ft)				Resolution	1440); 3M (2048 × 1536); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720);		
	Lens	Detect	Observe	Recognize	Identify		D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)		
DORI Distance	W	83.4 m (273.62 ft)	33.4 m (109.58 ft)	16.7 m (54.79 ft)	8.3 m (27.23 ft)	Bit Rate Control	CBR/VBR		
	Т	189.6 m (622.05 ft)	75.8 m (248.69 ft)	37.9 m (124.34 ft)	19.0 m (62.34 ft)	Video Bit Rate	H.264: 32 kbps–16384 kbps H.265: 12 kbps–13568 kbps		
Intelligence						Day/Night	Auto(ICR)/Color/B/W		
EPTZ	_					BLC	Yes		
IVS (Perimeter Protection)				ring (the three		HLC	Yes		
		of vehicle an		nd accurate detering detection		WDR	120 dB		
Smart Object Detection				mart missing o	bject	Scene Self-adaptation (SSA)	Yes		
SMD	SMD					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom		
AcuPick		Uses deep learning algorithms and works with back-end devices to accurately match targets, such as people and motor vehicles, and search through live and recorded videos to quickly locate targets.				Gain Control	Auto		
						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,				Region of Interest (RoI)	Yes (4 areas)		
						Image Stabilization	Electronic Image Stabilization (EIS)		
				snapshot strate nd optimizatior	egies (real-time	Smart Illumination	Yes		

Smart Illumination

Yes

snapshot, quality priority and optimization snapshot);

face angle filter; optimization time setting



Defog	Yes
Delog	
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 4M (2688 × 1520) resolution and lower)
Mirror	Yes
Privacy Masking	8 areas
LDC	Yes
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; defocus detection
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
Port	
Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	2 channels in: wet contact, 5mA 3V–5V DC
Alarm Output	1 channel out: wet contact, 300mA 12V DC
Power	
Power Supply	12 VDC/PoE (802.3af)/ePoE
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Dual Power Backup	When the power adapter and PoE provide power at the same time, disconnect one of them. The device will continue to work, but will not restart.	
Power Consumption	Basic: 4.0 W (12 VDC); 5.3 W (PoE) Max. (H.265+ WDR+ Intelligence on+IR on): 10.2 W (12 VDC); 12.8 W (PoE)	
Environment		
Operating Temperature	-30 °C to +60 °C (-22 °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	273.2 mm × 95.0 mm × 95.0 mm (10.76" × 3.74" × 3.74") (L × W × H)	
Net Weight	1.12 kg (2.47 lb)	

Ordering Information							
Туре	Model	Description					
8MP	DH-IPC-HFW5842E-ZE	8MP IR Vari-focal Bullet WizMind Network Camera					
Camera	IPC-HFW5842E-ZE	8MP IR Vari-focal Bullet WizMind Network Camera					
	PFA121	Water-proof Junction Box					
	PFA156	Pole mount Bracket					
Accessories (Optional)	PFM321D	12 VDC 1 A Power Adapter					
	PFM900-E	Integrated Mount Tester					
	TF-P100	MicroSD Memory Card					

1.66 kg (3.66 lb)

Accessories

Gross Weight

Optional:







PFA121 Water-proof Junction Box PFA156 Pole mount Bracket PFM321D 12 VDC 1 A Power Adapter

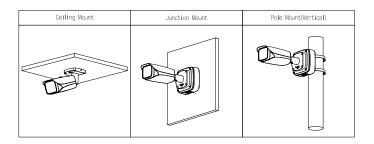


Silen UA2

PFM900-E Integrated Mount Tester

TF-P100 MicroSD Memory Card





Dimensions (mm[inch])

