

DH-IPC-HFW5842T-SE

8MP IR Fixed-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 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.

* The parameters and datasheets below can only be applied to 5842-ASE-S3 series.

- 8-MP 1/1.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 8 MP (3840×2160) @25/30fps.
- Built-in IR LED, and the max. illumination distance is 80 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, IVS, face detection, smart object detection, and people counting, etc.
- · Supports max. 512 GB Micro SD card, built-in MIC.
- 12 VDC/PoE power supply; ePoE.
- IP67 and IK10 protection.
- SMD 3.0.













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.

	Technical Specification					AISSA	Yes
Camera						Face Detection	Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes (gender, age, glasses, expressions, mask, and beard) and 8 expressions (angry, sad, disgusted, scared, surprised, calm, happy, confused); face beautifying; 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
Image Sensor	1/1.8" CMOS						
Max. Resolution	3840 (H) × 2160 (V)						
ROM	4 GB						
RAM	2 GB						
Scanning System	Progressive					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
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s						
Min. Illumination	0.0008 lux@F1.6 (Color, 30 IRE) 0.0004 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)					Heat Map	yes Motor vehicle, non-motor vehicle, face, human body
S/N Ratio >56 dB						Video Metadata	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
Illumination Distance	umination Distance Up to 80 m (262.47 ft) (IR)						
Illuminator On/Off Control	ontrol Auto;Manual						
Illuminator Number	4 (IR LED)						
Angle Adjustment	Pan: 0°-360° Tilt: 0°-90°						mask and beard.
Rotation: 0°–360° Lens				Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos		
Lens Type	Fixed-focal					Video	
Lens Mount	M12				Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)	
Focal Length	ocal Length 2.8 mm; 3.6 mm; 6 mm				Smart Codec	Smart H.265+; Smart H.264+	
Max. Aperture	e F1.6				AI Coding	AI H.265; AI H.264	
2.8 mm: H: 110°; V: 57°; D: 134° 3.6 mm: H: 87°; V: 49°; D: 99° 6 mm: H: 60°; V: 35°; D: 68°				Video Frame Rate	Main stream: $3840 \times 2160@(1-25/30 \text{ fps})$ Sub stream: $D1@(1-25/30 \text{ fps})$ Third stream: $1080p@(1-25/30 \text{ fps})$ Fourth stream: $720p@(1-10 \text{ fps})$ *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.		
Iris Control Fixed							
2.8 mm: 1.9 m (6.23 ft) 3.6 mm: 2.3 m (7.55 ft) 6 mm: 4.0 m (13.12 ft)					Stream Capability	4 streams	
Lens	Detect 89.2 m	Observe 35.7 m	Recognize	Identify 8.9 m		Resolution	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728). 5M (2592 × 1944); 4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048 × 1535); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 ×
2.8 mm DORI	(292.65 ft)	(117.13 ft)	(58.40 ft)	(29.20 ft)			288/352 × 240)
Distance 3.6 mm	98.0 m (321.52 ft)	39.2 m (128.61 ft)	19.6 m (64.30 ft)	9.8 m (32.15 ft)		Bit Rate Control	CBR/VBR
6 mm	140.0 m (459.32 ft)	56.0 m (183.73 ft)	28.0 m (91.86 ft)	14.0 m (45.93 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 Yes				BLC	Yes		
				HLC	Yes		
Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection		nd accurate det	accurate detection		WDR	120 dB	
		people		Scene Self-adaptation (SSA)	Yes		
Smart Object Detection Smart abandoned object; smart missing object				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom		
SMD 3.0 Less false alarm, longer detection distance				Gain Control	Auto		

Noise Reduction	3D NR		
Motion Detection	OFF/ON (4 areas, rectangular)		
Region of Interest (RoI)	Yes (4 areas)		
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; face detection; 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	Video encryption;Firmware encryption;Configuration encryption;Digest;WSSE;Account lockout;Security logs;IP/MAC filtering;Generation and importing of X.509 certification;syslog;HTTPS;802.1x;Trusted boot;Trusted execution;Trusted upgrade		
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		
Power			
Power Supply	12 VDC/PoE (802.3af)/ePoE		
Power Consumption	Basic: 4.1 W (12 VDC); 5.2 W (PoE) Max. (H.265+ WDR+ Intelligence on+IR on): 8.3 W (12 VDC): 9.8 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				
Product Dimensions	244.1 mm × 79.0 mm × 75.9 mm (9.61" × 3.11" × 2.99") (L × W × H)				
Net Weight	0.82 kg (1.81 lb)				
Gross Weight	1.08 kg (2.38 lb)				

Ordering Information					
Туре	Model	Description			
8MP Camera	DH-IPC-HFW5842T-ASE	8MP IR Fixed-focal Bullet WizMind Network Camera			
	IPC-HFW5842T-ASE	8MP IR Fixed-focal Bullet WizMind Network Camera			
Accessories (Optional)	PFA130-E	Water-proof Junction Box			
	PFA152-E	Pole Mount Bracket			
	PFM321D	12 VDC 1 A Power Adapter			
	PFM900-E	Integrated Mount Tester			
	TF-P100	MicroSD Memory Card			

Accessories

Optional:



PFA130-E Water-proof Junction Box



PFA152-E Pole Mount Bracket



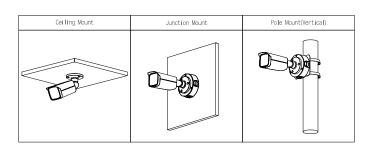
PFM321D 12 VDC 1 A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

