

DH-IPC-HDW5842TM-ASE

8MP IR Fixed-focal Eyeball 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.

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-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 50 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: 1 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 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, 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.

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							AISSA	Yes
Camera								Face detection; track; snapshot; snapshot optimization;
Image Sensor		1/1.8" CMOS					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 snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting.
Max. Resolution		3840 (H) × 2160 (V)						
ROM		4 GB						
RAM		2 GB						Tripwire people counting, generating and exporting report (day/week/month/year); people counting in area
Scanning System		Progressive					People Counting	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					Heat Map	people counting in area and queue management. Yes
Min. Illumination		0.0008 lux@F1.6 (Color, 30 IRE) 0.0004 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)					i cut map	Motor vehicle, non-motor vehicle, face, human body detection; track; snapshot; snapshot optimization; optimal face snapshot upload.
S/N Ratio	S/N Ratio							Motor vehicle attributes: vehicle type, vehicle color, vehicle logo and other attributes : seatbelt, smoking,
Illumination Distance		50 m (164.04 ft) (IR)					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.
Illuminator On/Off Control		Auto;Manual						
Illuminator Number		2 (IR LED)						
Angle Adjustment		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°					Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
Lens							Smart Sound Detection	Yes
Lens Type		Fixed-focal					Video	
Lens Mount		M16					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Focal Length		2.8mm; 3.6mm; 6mm					Smart Codec	, Smart H.265+; Smart H.264+
Max. Aperture		F1.6					AI Coding	AI H.265; AI H.264
Field of View		2.8 mm: H: 111°; V: 59°; D: 131° 3.6 mm: H: 87°; V: 47°; D: 102° 6 mm: H: 55°; V: 30°; D: 64°					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.
Iris Control		Fixed						
Close Focus Distance		2.8 mm: 1.8 m 3.6 mm: 2.6 m 6 mm: 4.4 m					Stream Capability	4 streams
	Lens	Detect	Observe	Recognize	Identify			3840 × 2160; 3072 × 2048; 3072 × 1728; 2592 × 1944; 2688 × 1520; 2560 × 1440; 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)
	2.8 mm	85.4 m (280.18 ft)	34.2 m (112.20 ft)	17.1 m (56.10 ft)	8.5 m (27.89 ft)		Resolution	
DORI Distance	3.6 mm	106.0 m	42.4 m	21.2 m	10.6 m		Bit Rate Control	CBR/VBR
	6 mm	(347.77 ft) 164.8 m	(131.11 ft) 65.9 m	(69.55 ft) 33.0 m	(34.78 ft) 16.5 m		Video Bit Rate	H.264: 32 kbps-16384 kbps H.265: 12 kbps-13568 kbps
		(540.68 ft)	(216.21 ft)	(108.27 ft)	(54.13 ft)		Day/Night	Auto(ICR)/Color/B/W
Intelligence							BLC	Yes
EPTZ		Yes					HLC	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					WDR	120 dB
							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

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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 \times 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	
Port		
Audio Input	1 channel (RCA port)	

1 channel (RCA port)

Audio Output

Alarm Input	1 channel 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				
Power Consumption	Basic: 4.1 W (12 VDC); 5.2 W (PoE); Max. (H.265+ WDR+ Intelligence on+IR on): 6.8 W (12 VDC); 8.8 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				
Structure					
Casing Material	Inner core: Metal Cover: Metal Decoration ring: Plastic Quick install mounting plate: Metal				
Product Dimensions	99.1 mm × Φ121.9 mm (3.90" × Φ4.80")				
Net Weight	500 g (1.10 lb)				
Gross Weight	770 g (1.70 lb)				

Ordering Information							
Туре	Model	Description					
8MP	DH-IPC-HDW5842TM-ASE	8MP IR Fixed-focal Eyeball WizMind Network Camera					
Camera	IPC-HDW5842TM-ASE	8MP IR Fixed-focal Eyeball WizMind Network Camera					
	PFA130-E	Water-proof Junction Box					
	PFB205W-E	Wall Mount Bracket					
	PFA152-E	Pole Mount Bracket					
Accessories	PFA109	Mount adapter					
(Optional)	PFB220C	Ceiling Mount Bracket					
	PFM321D	12 VDC 1 A Power Adapter					
	PFM900-E	Integrated Mount Tester					
	TF-P100	MicroSD Memory Card					

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Accessories

Optional:



PFA130-E Water-proof Junction Box



PFA109 Mount adapter



PFB205W-E

Wall Mount

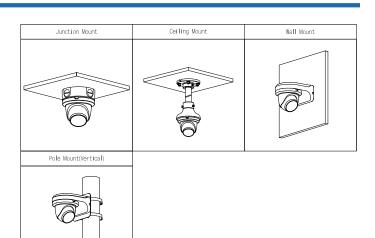
Bracket

PFB220C Ceiling Mount Bracket

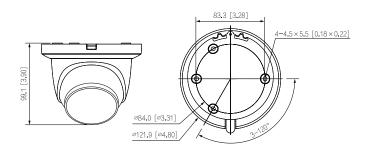
PFM321D 12 VDC 1 A Power Adapter

PFA152-E

Pole Mount Bracket



Dimensions (mm[inch])





PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card

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