

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.

SMD 3.0

Technical Specification						AI SSA	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
Max. Resolution		3840 (H) × 2160 (V)				race Detection	attributes and 8 expressions; face snapshot set as face, one-inch photo or custom; snapshot strategies (real-time snapshot, quality priority and optimization snapshot);	
ROM	ROM		4 GB					face angle filter; optimization time setting.
RAM		2 GB					Vehicle Density	0
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, people counting in area and queue management.
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	S/N Ratio		>56 dB					detection; track; snapshot; snapshot optimization; optimal face snapshot upload.
Illumination	Illumination Distance		4 ft) (IR)					Motor vehicle attributes: vehicle type, vehicle color, vehicle logo and other attributes: seatbelt, smoking, calling.
Illuminator (On/Off Control	Auto;Manual					Video Metadata	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
Illuminator Number		2 (IR LED) Pan: 0°–360° Tilt: 0°–78°						
Lens	Angle Adjustment Lens		-360°				Smart Search	mask and beard. Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
Lens Type		Fixed-focal					Smart Sound Detection	Yes
Lens Mount	Lens Mount		M16				Video	
Focal Length	Focal Length		2.8mm; 3.6mm; 6mm				Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported
Max. Apertu	Max. Aperture		F1.6				Smart Codec	by the sub stream) Smart H.265+; Smart H.264+
			.11°; V: 59°; D:				Al Coding	AI H.265; AI H.264
Field of Viev	Field of View		3.6 mm: H: 87°; V: 47°; D: 102° 6 mm: H: 55°; V: 30°; D: 64°				Al couling	Main stream: 3840 × 2160@(1–25/30 fps)
Iris Control Close Focus Distance		2.8 mm: 1.8 m 3.6 mm: 2.6 m 6 mm: 4.4 m					Video Frame Rate	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
DORI	Lens 2.8 mm	85.4 m (280.18 ft)	Observe 34.2 m (112.20 ft)	17.1 m (56.10 ft)	8.5 m (27.89 ft)		Resolution	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
Distance	3.6 mm	106.0 m (347.77 ft)	42.4 m (131.11 ft)	21.2 m (69.55 ft)	10.6 m (34.78 ft)		Dit Data Cantual	(352 × 288/352 × 240)
	6 mm	164.8 m (540.68 ft)	65.9 m (216.21 ft)	33.0 m (108.27 ft)	16.5 m (54.13 ft)		Bit Rate Control Video Bit Rate	CBR/VBR H.264: 32 kbps–16384 kbps
Intelligen	Intelligence							H.265: 12 kbps–13568 kbps
EPTZ		Yes					Day/Night	Auto(ICR)/Color/B/W
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					BLC	Yes
							HLC	Yes
							WDR	120 dB
Smart Object Detection		Smart abandoned object; smart missing object					Scene Self-adaptation (SSA)	Yes
SMD 3.0		Less false alarm longer detection distance					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom

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 \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)	

Audio Output	1 channel (RCA port)		
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)		

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			

770 g (1.70 lb)

Gross Weight

Accessories

Optional:



PFA130-E Water-proof Junction Box



PFB205W-E Wall Mount Bracket



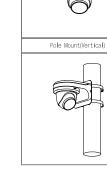
PFA152-E Pole Mount Bracket



PFB220C Ceiling Mount Bracket

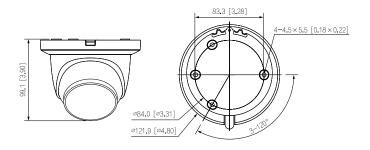


PFM321D 12 VDC 1 A Power Adapter



Dimensions (mm[inch])

Junction Mount



Ceiling Mount

Wall Mount



PFA109 Mount adapter



512cn UA2 mgg V30

PFM900-E Integrated Mount Tester

TF-P100 MicroSD Memory Card