

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 and IK10 protection.





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 ±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 Senso	r	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
Max. Resolution		3840 (H) × 2160 (V)						
ROM		4 GB					snapshot, quality priority and optimization snapshot); 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,
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)					Heat Map	people counting in area and queue management. Yes
		0 lux (Illuminator on)						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.
S/N Ratio	Distanco	>56 dB						
	on/Off Control	50 m (164.04 ft) (IR)					Video Metadata	
		Auto;Manual						Non-motor vehicle attributes: type, color, number of people, top type and color, hat. Human body attributes: gender, top/bottom type and
Illuminator Number Angle Adjustment		2 (IR LED) Pan: 0°–360° Tilt: 0°–78°						color, bag, hat and umbrella. Face attributes: gender, age, expressions, glasses, face mask and beard.
Lens		Rotation: 0°–360°					Smart Search	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		M16					Video	
Focal Length		2.8mm; 3.6m	ım; 6mm				Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Max. Aperture		F1.6					Smart Codec	Smart H.265+; Smart H.264+
Field of View	,		11°; V: 59°; D: 1 7°; V: 47°; D: 1				AI Coding	AI H.265; AI H.264
		6 mm: H: 55°; V: 30°; D: 64°						Main stream: 3840 × 2160@(1–25/30 fps) Sub stream: D1@(1–25/30 fps)
Iris Control Close Focus Distance		Fixed 2.8 mm: 1.8 m 3.6 mm: 2.6 m 6 mm: 4.4 m					Video Frame Rate	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
2021	Lens 2.8 mm	Detect 85.4 m (280.18 ft)	Observe 34.2 m (112.20 ft)	Recognize 17.1 m (56.10 ft)	Identify 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
DORI 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)			× 720); D1 (704 × 576/704 × 480); VGA(640 × 480); CIF (352 × 288/352 × 240)
	6 mm	164.8 m	65.9 m	33.0 m	16.5 m		Bit Rate Control	CBR/VBR H.264: 32 kbps–16384 kbps
Intelligence		(540.68 ft)	(216.21 ft)	(108.27 ft)	(54.13 ft)		Video Bit Rate	H.265: 12 kbps=13568 kbps
Intelligence EPTZ		Yes					Day/Night	Auto(ICR)/Color/B/W
							BLC	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					HLC	Yes
							WDR	120 dB
Smart Object Detection		Smart abandoned object; smart missing object					Scene Self-adaptation (SSA)	Yes
							White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
SMD 3.0		Less false alarm, longer detection distance						

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AncomponentAnti-Noise Reduction50 NRMotion DetectionOFF/ON (4 areas, rectangular)Region of Interest (Ro)Yes (4 areas)Smart IlluminationYes (4 areas)DefogVesImage RotationG/907/1807/2707 (Support 907/2707 with 44M (2688 A 1520) resolution and lower)MirrorYesPrivacy Masking& areasAudioGr/1807/2707 (Support 907/2707 with 44M (2688 A 1520) resolution and lower)Audio CompressionG/1113 (G-711MU; PCM, G.726 (G-723Audio CompressionG/1113 (G-711MU; PCM, G.726 (G-723AufarNo SD card; SD card full; SD card error; network disconnection; IP conflict; Illegal access; motion adamode object; missing object; Iothering detection; vide or metadates; SMO people ounting in area; stay detection; vide or metadates; SMO people ounting in area; stay detection; vide or metadates; SMO people ounting; nere detection; vide or metadates; SMO people ounting; neres; stay detection; vide or metadate; SMO people ounting; neres; STP; DirCP, NBS; DMS; DOS; DOS; Dis; DirP; NTP; WITP; FTP; DIPC, DMS; DMS; DOS; US; UPP; NTP; WITP; FTP; STP; DirCP, NBS; DMS; DOS; US; UPP; NTP; WITP; FTP; STP; DirCP, NBS; DMS; DOS; UPP; NTP	Gain Control	Auto				
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NoteFTP; SFTP; Micro SD card (support max. 512 GB); NASBrowserIE: IE 9 and later Chrome: Chrome 102 and later Firefox: Firefox 88 and laterManagement SoftwareSmartPSS Lite; DSS; DMSSMobile ClientiOS;AndroidCyber SecurityConfiguration 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 certificationCertificationsCE-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. 62368-1:14PortImage: Compatibility Directive Directive	Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI;				
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BrowserChrome: Chrome 102 and later Firefox: Firefox 88 and laterManagement SoftwareSmartPSS Lite; DSS; DMSSMobile ClientiOS;AndroidCyber SecurityConfiguration 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 certificationCertificationCE-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. 62368-1-14PortImage: Management State	Storage	FTP; SFTP; Micro SD card (support max. 512 GB); NAS				
Mobile Client iOS;Android 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 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 Image: Compatibility Compatibility Compatibility Carbon (Compatibility Carbo	Browser	Chrome: Chrome 102 and later				
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Cyber Security 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 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 Image: Compatibility Compatibility Carbon of Carbo	Mobile Client	iOS;Android				
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 Image: Comparison of the second se	Cyber Security	security logs; WSSE; account lockout; syslog; video encryption; 802.1x; IP/MAC filtering; HTTPS; trusted upgrade; trusted boot; firmware encryption; generation				
Certifications 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 Image: Comparison of the second	Certification					
	Certifications	CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B				
Audio Input 1 channel (RCA port)	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)				
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			

Wiz Mind | DH-IPC-HDW5442TM-ASE

Accessories

Optional:



PFA130-E Water-proof Junction Box



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PFA109 Mount adapter



PFB220C Ceiling Mount Bracket

PFB205W-E

Wall Mount

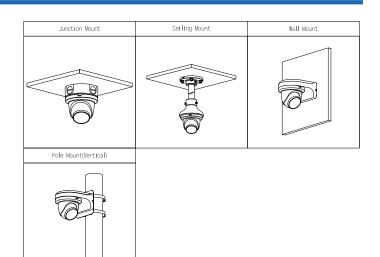
Bracket



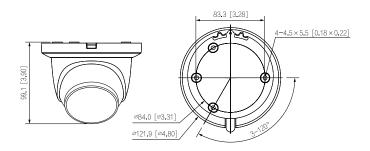
PFA152-E Pole Mount Bracket



PFM321D 12 VDC 1 A Power Adapter



Dimensions (mm[inch])



t adapter





PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card

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