



DH-IPC-HDW5842T-ZE

8MP IR Vari-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.

* 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 image.
- Outputs max. 8MP (3840×2160) @25/30 fps.
- Built-in IR LED, and the max. illumination distance is 40 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 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 ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Technical Specification								Tripwire people counting, generating and exporting report (day/week/month/year); people counting in area and queue meangement, generating and exporting
Camera							People Counting	
Image Sensor		1/1.8" CMOS						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					Video Metadata	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. Face attributes: gender, age, expressions, glasses, face mask and beard.
RAM		2 GB						
Scanning System		Progressive						
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s						
Min. Illumination		0.0008 lux@F1.8 (Color, 30 IRE) 0.0004 lux@F1.8 (B/W, 30 IRE) 0 lux (Illuminator on)						
S/N Ratio		>56 dB					Smart Search	Work together with Smart NVR to perform refine
Illumination Distance		40 m (131.23 ft) (IR)						intelligent search, event extraction and merging to event videos
Illuminator C	On/Off Control	Auto; Manual					Video	
Illuminator N	lumber	2 (IR LED)					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Angle Adjust	ment	Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°					Smart Codec	Smart H.265+; Smart H.264+
Lens		notation. 0 -500					AI Coding	AI H.265; AI H.264
Lens Type		Motorized vari-focal					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.
Lens Mount		ф14						
Focal Length		2.7 mm-12 mm						
Max. Aperture		F1.8					Stream Capability	4 streams
Field of View		H: 113°-47°; V: 60°-26°; D: 133°-53°					on carried apartic,	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728);
Iris Control		Auto					0 1 .:	5M (2592 × 1944); 4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048 × 1536); 3M (2304 × 1296); 1080p
Close Focus Distance		1.5 m (4.92 ft)					Resolution	(1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
	Lens	Detect	Observe	Recognize	Identify		Bit Rate Control	CBR/VBR
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)			
	Т	189.6 m	75.8 m	37.9 m	19.0 m	V	Video Bit Rate	H.264: 32 kbps–16384 kbps; H.265: 12 kbps–13568 kbps
Intolligon	00	(622.05 ft)	(248.69 ft)	(124.34 ft)	(62.34 ft)	С	Day/Night	Auto(ICR)/Color/B/W
Intelligence		Vac				В	BLC	Yes
EPTZ		Yes Intrusion, tripwire, fast moving (the three functions					HLC	Yes
IVS (Perimeter Protection)		support the classification and accurate detection of vehicle and human); loitering detection, people					WDR	120 dB
		gathering, and parking detection					Scene Self-adaptation (SSA)	Yes
Smart Object Detection		Smart abandoned object; smart missing object					White Balance	Auto; natural; street lamp; outdoor; manual; regional
SMD 3.0		Less false alarm, longer detection distance					Gain Control	Auto
AI SSA		Yes						
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, one-inch photo or custom; snapshot strategies (real-time snapshot, quality priority and optimization snapshot);					Noise Reduction	3D NR
							Motion Detection	OFF/ON (4 areas, rectangular)
							Region of Interest (RoI)	Yes (4 areas)
		face angle filt	ter; optimizatio	n time setting		l:	mage Stabilization	Electronic Image Stabilization (EIS)
						C	Smart Illumination	Voc

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; 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; RTM SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP; P2				
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				
Power					
Power Supply	12 VDC/PoE (802.3af)/ePoE				
Power Consumption	Basic: 4.1 W (12 VDC); 5.4 W (P0E) Max. (H.265+ WDR+ Intelligence on+IR on): 7.5 W (12 VDC); 9.0 W (P0E)				
Environment					
Operating Temperature	-30 °C to +60 °C (-22 °F to +140 °F)				
Operating Humidity	≤95%				

Storage Humidity	10%–95% (RH), non-condensing		
Protection	IP67		
Structure			
Casing Material	Metal		
Product Dimensions	108.3 mm × Φ122 mm (4.26" × Φ4.80")		
Net Weight	0.70 kg (1.54 lb)		
Gross Weight	0.96 kg (2.12 lb)		

Ordering Information					
Туре	Model	Description			
8MP	DH-IPC-HDW5842T-ZE	8MP IR Vari-focal Eyeball WizMind Network Camera			
Camera	IPC-HDW5842T-ZE	8MP IR Vari-focal Eyeball WizMind Network Camera			
	PFB203W	Wall Mount Bracket			
	PFA152-E	Pole Mount Bracket			
	PFA106	Mount Adapter			
Accessories	PFB220C	Ceiling Mount Bracket			
(Optional)	PFA137	Junction Box			
	PFM321D	12 VDC 1 A Power Adapter			
	PFM900-E	Integrated Mount Tester			
	TF-P100	MicroSD Memory Card			

Accessories

Optional:



PFB203W Wall Mount Bracket



PFA152-E Pole Mount Bracket



PFA106 Mount Adapter



PFB220C Ceiling Mount Bracket



PFA137 Junction Box



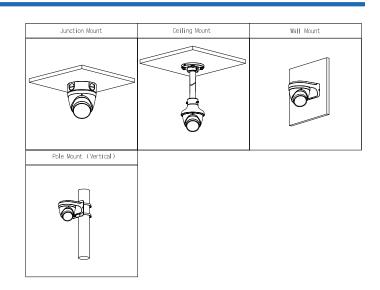
PFM321D 12 VDC 1 A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

