



DH-IPC-HDBW5842E-ZE

8MP IR Vari-focal Vandal-proof Dome 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-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, smart sound detection, IVS, face detection, smart object detection, and people counting, etc.
- Alarm: 2 in, 1 out; audio: 1 in, 1 out; supports max. 512 GB Micro SD card, built-in MIC.
- 12 VDC/24 VAC/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								Tripwire people counting, generating and exporting
Camera							People Counting	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.
Image Sensor		1/1.8" CMOS						
Max. Resolution		3840 (H) × 2160 (V)					Heat Map	Yes
ROM		4 GB						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,
RAM		2 GB						
Scanning System		Progressive					Video Metadata	venice logs and other attributes : searber, 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.
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 intelligent search, event extraction and merging to event
Illumination	Illumination Distance		ft) (IR)				Smart Sound Detection	videos Yes
Illuminator On/Off Control		Auto;Zoomprio;Manual					Video	163
Illuminator N	Illuminator Number							H.265; H.264; H.264H; H.264B; MJPEG (Only supported
Angle Adjustment		Pan: 0°–355° Tilt: 0°–65°					Video Compression	by the sub stream)
Ů,		Rotation: 0°–355°					Smart Codec	Smart H.265+; Smart H.264+
Lens							Al Coding	AI H.265; AI H.264
Lens Type		Motorized vari-focal						Main stream: 3840 × 2160@(1–25/30 fps) Sub stream: D1@(1–25/30 fps)
	Lens Mount						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.
	Focal Length		nm					
Max. Apertu		F1.8					Stream Capability	4 streams
Field of View	1	H: 113°–47°; V: 60°–26°; D: 133°–53°					Resolution	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728); 5M (2592 × 1944); 4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048 × 1536); 3M (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)
Iris Control		Auto						
Close Focus	Lens	1.5 m (4.92 ft) Detect Observe Recognize Identify						
DORI	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)		Bit Rate Control	CBR/VBR
Distance	Т	189.6 m	75.8 m	37.9 m	19.0 m		Video Bit Rate	H.264: 32 kbps–16384 kbps; H.265: 12 kbps–13568 kbps
Intalligan	00	(622.05 ft)	(248.69 ft)	(124.34 ft)	(62.34 ft)		Day/Night	Auto(ICR)/Color/B/W
Intelligence		Ven					BLC	Yes
EPTZ		Yes					HLC	Yes
IVS (Perimet	er 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 Objec	t 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	custom
AI SSA		Yes						3D NR
Face Detection		Face detection; track; snapshot; snapshot optimization;					Noise Reduction Motion Detection	OFF/ON (4 areas, rectangular)
		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					Region of Interest (RoI)	Yes (4 areas)
							Image Stabilization	Electronic Image Stabilization (EIS)
							Smart Illumination	Yes

	DIT-II C-IIDDW 3042E-2E		
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; external alarm; face detection; video metadata; SMD; people counting in area; stay detection; people counting; peopl 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; RTMI SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP; P2F		
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	2 channels in: wet contact, 5mA 3V–5V DC		
Alarm Output	1 channel out: wet contact, 300mA 12V DC		
Power			
Power Supply	12 VDC/24 VAC/PoE (802.3af)/ePoE		

Power Consumption	Basic: 4.1 W (12 VDC); 4.9 W (24 VAC); 5.9 W (POE) Max. (H.265+ WDR+ Intelligence on+IR on): 10.0 W (12 VDC); 11.7 W (24 VAC); 12.2 W (POE)	
Environment		
Operating Temperature	−30 °C to +60 °C (−22 °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 + plastic	
Product Dimensions	Φ159.1 mm × 118.1 mm (6.26" × Φ4.65")	
Net Weight	0.91 kg (2.01 lb)	

1.22 kg (2.69 lb)

Gross Weight

Ordering Information						
Туре	Model	Description				
8MP	DH-IPC-HDBW5842E-ZE	8MP IR Vari-focal Vandal-proof Dome WizMind Network Camera				
Camera	IPC-HDBW5842E-ZE	8MP IR Vari-focal Vandal-proof Dome WizMind Network Camera				
	PFB211W	Wall Mount Bracket				
	PFA138	Junction Box				
	PFB5201C	In-ceiling Mount Bracket				
	PFB300C	Ceiling Mount Bracket				
Accessories (Optional)	PFA156	Pole Mount Bracket				
	PFA101	Mount Adapter				
	PFM321D	12 VDC 1 A Power Adapter				
	PFM900-E	Integrated Mount Tester				
	TF-P100	MicroSD Memory Card				

Accessories

Optional:



PFB211W Wall Mount Bracket



PFA138 Junction Box



PFB5201C In-ceiling Mount Bracket



PFB300C Ceiling Mount Bracket



PFA156 Pole Mount Bracket



PFA101 Mount Adapter



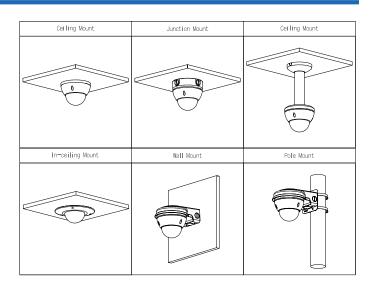
PFM321D 12 VDC 1 A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

