



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 Al ISP 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-ISP

With AI ISP technology, the camera is able to easily adapt to scenes, producing high quality images that reveal the fine details of targets.

Self-Learning

Empowered by deep learning technology, the device recognizes different types of targets and their statuses through learning and analyzing target features to detect targets and filter out false alarms.

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.

AcuPick

This industry-leading search technology effectively utilizes both frontend and back-end intelligence to help with searching through massive video data to quickly and conveniently locate targets with greater precision.

- * 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. 1 TB 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.

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 ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification							AI SSA	Yes		
Camera								Face detection; track; snapshot; snapshot optimization;		
Image Sensor		1/1.8" CMOS						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)					Face Detection			
ROM		4 GB								
RAM		2 GB						Tripwire people counting, generating and exporting		
Scanning System		Progressive					People Counting	report (day/week/month/year); people counting in area and queue management, generating and exporting		
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s						report (day/week/month); 4 rules can be set for tripwire, people counting in area and queue management.		
Min. Illumination		0.0008 lux@F1.8 (Color, 30 IRE) 0.0004 lux@F1.8 (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		131.23 ft) (IR)					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.		
Illuminator (Illuminator On/Off Control		rio;Manual				Video Metadata			
Illuminator	Illuminator Number		3 (IR LED)					Human body attributes: gender, top/bottom type and color, bag, hat and umbrella.		
Angle Adjustment		Pan: 0°–355° Tilt: 0°–65° Rotation: 0°–355°						Face attributes: gender, age, expressions, glasses, face mask and beard.		
Lens	Lens		333				Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos		
Lens Type	Lens Type		ari-focal				Smart Sound Detection	Yes		
Lens Mount	Lens Mount		ф14				Video			
Focal Lengtl	Focal Length		2.7 mm–12 mm				Video Compression H.265; H.264; H.264H; H.264B; MJPEG (Only supposite the sub-stream)			
Max. Aperti	Max. Aperture		F1.8				Smart Codec	Smart H.265+; Smart H.264+		
Field of Viev	v	H: 113°-47°;	V: 60°-26°; D:	133°–53°			Al Coding	AI H.265; AI H.264		
Iris Control	Iris Control		Auto					Main stream: 3840 × 2160@(1–25/30 fps)		
Close Focus	Close Focus Distance		1.5 m (4.92 ft)					Sub stream: D1@(1-25/30 fps) Third stream: 1080p@(1-25/30 fps)		
	Lens	Detect	Observe	Recognize	Identify		Video Frame Rate	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.		
	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)					
DORI	Т	189.6 m (622.05 ft)	75.8 m (248.69 ft)	37.9 m (124.34 ft)	19.0 m (62.34 ft)		Stream Capability	4 streams		
Distance	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and						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)		
	commission		oject design t	ool.			Bit Rate Control	CBR/VBR		
Intelligence							Video Bit Rate	H.264: 32 kbps–16384 kbps; H.265: 12 kbps–13568 kbp		
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, animal and human); loitering detection, people gathering, parking detection. Supports long-distance mode. Supports self-learning, it filters out false alarms.					BLC	Yes		
							HLC	Yes		
Smart Object Detection		Smart abandoned object; smart missing object					WDR	120 dB		
SMD		SMD 3.0					Scene Self-adaptation (SSA)	Yes		
		Harrier Irania describe					(33/1)			

White Balance

Auto; natural; street lamp; outdoor; manual; regional

custom

Uses deep learning algorithms and works with back-end

devices to accurately match targets, such as people, animal, and motor vehicles, and search through live and recorded videos to quickly locate targets.

AcuPick

Gain Control	Control Auto		Certification				
Noise Reduction	3D NR			CE-LVD: EN62368-1;			
Motion Detection	OFF/ON (4 areas, rectangular)	Certifications		CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; FCC: 47 CFR FCC Part 15, Subpart B;			
Region of Interest (RoI)	Yes (4 areas)			UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14			
Image Stabilization	Electronic Image Stabilization (EIS)	Port					
Smart Illumination	Yes	Audio Input	Audio Input		1 channel (RCA port)		
Defog	Yes	Audio Output	Audio Output		1 channel (RCA port)		
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 4M (2688 × 1520) resolution and lower)	Alarm Input	Alarm Input		2 channels in: wet contact, 5mA 3V–5V DC		
Mirror	Yes	Alarm Output	Alarm Output 1 channel out: w		et contact, 300mA 12V DC		
Privacy Masking	8 areas	Power	Power				
LDC	Yes	Power Supply	Power Supply		12 VDC/24 VAC/PoE (802.3af)/ePoE		
Audio		Dual Power B	Dual Power Backup		When the power adapter and PoE provide power at the same time, disconnect one of them. The device will continue to work, but will not restart.		
Built-in MIC	Yes	Power Consu	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)		
Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723						
Alarm	N 62 162 11 162 1 1 1	Environme	Environment				
	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion	Operating Te	Operating Temperature		−30 °C to +60 °C (−22 °F to +140 °F)		
	detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering	Operating Hu	Operating Humidity		≤95%		
Alarm Event	detection; people gathering; parking detection; scene changing; audio detection; voltage detection; external alarm; face detection; video metadata; SMD; people	Storage Temp	Storage Temperature		-40 °C to +60 °C (-40 °F to +140 °F)		
	counting in area; stay detection; people counting; people number error detection; queue people number alarm;	Storage Humi	Storage Humidity		10%–95% (RH), non-condensing		
	queue time alarm; security exception; defocus detection	Protection	Protection IP6		IP67; IK10		
Network		Structure					
Network Port	RJ-45 (10/100 Enhancement Base-T)	Casing Mater	Casing Material		Metal		
SDK and API	Yes	Product Dime	Product Dimensions		Φ159.1 mm × 118.1 mm (6.26" × Φ4.65")		
Natural Protect	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP;	Net Weight	Net Weight		0.91 kg (2.01 lb)		
Network Protocol	Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP; P2P; Auto Register	Gross Weight	Gross Weight		1.22 kg (2.69 lb)		
Interoperability	ONVIF (Profile S/Profile G/Profile T/Profile M); CGI		Ordering Information				
User/Host	er/Host 20 (Total bandwidth: 80 M)						
Storage	FTP; SFTP; Micro SD card (support max. 1 TB); NAS	Type	Model		Description		
	IE: IE 9 and later	8MP	DH-IPC-HDE	3W5842E-ZE	8MP IR Vari-focal Vandal-proof Dome WizMind Network Camera		
Browser	Chrome: Chrome 102 and later Firefox: Firefox 88 and later	Camera	IPC-HDBW5	842E-ZE	8MP IR Vari-focal Vandal-proof Dome WizMind Network Camera		
Management Software	SmartPSS Lite; DSS; DMSS		PFB211W		Wall Mount Bracket		
Mobile Client	iOS; Android		PFA138		Junction Box		
	Trusted execution; Digest; Security logs; WSSE; Account		PFB5201C		In-ceiling Mount Bracket		
Security	lockout; Syslog; 802.1x; IP/MAC filtering; HTTPS; Trusted upgrade; Trusted boot; Generation and importing of		PFB300C		Ceiling Mount Bracket		
	X.509 certification	Accessories (Ontional)	PFA156		Pole Mount Bracket		

PFA101

PFM321D

PFM900-E

TF-P100

(Optional)

12 VDC 1 A Power Adapter

Integrated Mount Tester

MicroSD Memory Card

Mount Adapter

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



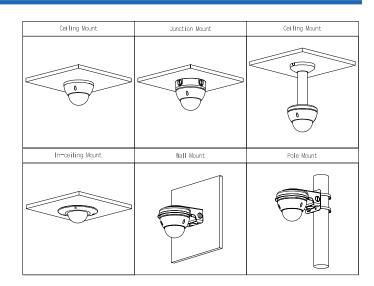
PFM321D 12 VDC 1 A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

