

DH-IPC-HDBW5842R-ASE

8MP IR Fixed-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 Al 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 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-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. 1 TB Micro SD card, built-in MIC.
- 12 VDC/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.

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Technical Specification

Camera					
Image Sensor		1/1.8" CMOS			
Max. Resolution		3840 (H) × 2160 (V)			
ROM		4 GB			
RAM		2 GB			
Scanning System		Progressive			
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)			
S/N Ratio		>56 dB			
Illumination Distance		Up to 50 m (164.04 ft) (IR)			
Illuminator On/Off Control		Auto; Manual			
Illuminator Number		2 (IR LED)			
Angle Adjustment		Pan: 0°–355° Tilt: 0°–80° Rotation: 0°–355°			
Lens					
Lens Type		Fixed-focal			
Lens Mount		M12			
Focal Length		2.8 mm; 3.6 mm; 6 mm			
Max. Aperture		F1.6			
Field of View		2.8 mm: H: 110°; V: 57°; D: 134° 3.6 mm: H: 87°; V: 49°; D: 99° 6 mm: H: 60°; V: 35°; D: 68°			
Iris Control		Fixed			
Close Focus Distance		2.8 mm: 1.9 m (6.23 ft) 3.6 mm: 2.3 m (7.55 ft) 6 mm: 4.0 m (13.12 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8 mm	89.2 m (292.65 ft)	35.7 m (117.13 ft)	17.8 m (58.40 ft)	8.9 m (29.20 ft)
	3.6 mm	98.0 m (321.52 ft)	39.2 m (128.61 ft)	19.6 m (64.30 ft)	9.8 m (32.15 ft)
	6 mm	140.0 m (495.32 ft)	56.0 m (183.73 ft)	28.0 m (91.86 ft)	14.0 m (45.93 ft)

*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 commissioning manual/project design tool.

Intelligence

EPTZ	Yes
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.

Smart Object Detection Smart abandoned object; smart missing object SMD SMD 3.0 Uses deep learning algorithms and works with back-end devices to accurately match targets, such as people, AcuPick animal, and motor vehicles, and search through live and recorded videos to quickly locate targets. AI SSA Yes Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure: face attributes extraction including 6 Face 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); face angle filter; optimization time setting. Tripwire people counting, generating and exporting report (day/week/month/year); people counting in area **People Counting** and queue management, generating and exporting report (day/week/month); 4 rules can be set for tripwire, people counting in area and queue management. Heat Map Yes 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. 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 mask and beard. Work together with Smart NVR to perform refine Smart Search intelligent search, event extraction and merging to event videos Smart Sound Detection Yes Video H.265; H.264; H.264H; H.264B; MJPEG (Only supported Video Compression by the sub stream) Smart Codec Smart H.265+; Smart H.264+ AI H.265; AI H.264 AI Coding 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) Video Frame Rate *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 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 Resolution (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240) Bit Rate Control CBR/VBR H.264: 32 kbps -16384 kbps Video Bit Rate H.265: 12 kbps -13568 kbps Auto(ICR)/Color/B/W Day/Night BLC Yes HLC Yes

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	120 dB			
Scene Self-adaptation (SSA)	Yes			
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom			
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			
LDC	Yes (only 2.8mm/3.6mm supports)			
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; Auto Register			
Interoperability	ONVIF (Profile S/Profile G/Profile T/Profile M); CGI			
User/Host	20 (Total bandwidth: 80 M)			
Storage	FTP; SFTP; Micro SD card (support max. 1 TB); 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			
Security	Trusted execution; Digest; Security logs; WSSE; Account lockout; Syslog; 802.1x; IP/MAC filtering; HTTPS; Trusted upgrade; Trusted boot; 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				
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.				
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; IK10				
Structure					
Casing Material	Metal				
Product Dimensions	94.0 mm × Φ122.0 mm (3.70" × Φ4.80")				
Net Weight	712.9 g (1.57 lb)				
Gross Weight	986 g (2.17 lb)				

Ordering Information					
Туре	Model	Description			
8MP Camera	DH-IPC-HDBW5842R-ASE	8MP IR Fixed-focal Vandal-proof Dome WizMind Network Camera			
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Accessories (Optional)	PFA137	Junction Box			
	PFB206W	Wall Mount Bracket			
	PFA109	Mount adapter			
	PFB220C	Ceiling Mount Bracket			
	PFA156	Pole Mount Bracket			
	PFM321D	12 VDC 1 A Power Adapter			
	PFM900-E	Integrated Mount Tester			
	TF-P100	MicroSD Memory Card			

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Accessories

Optional:



PFA137 Junction Box



PFB220C Ceiling Mount Bracket



PFM900-E Integrated Mount Tester



PFB206W Wall Mount Bracket



PFA156 Pole Mount Bracket



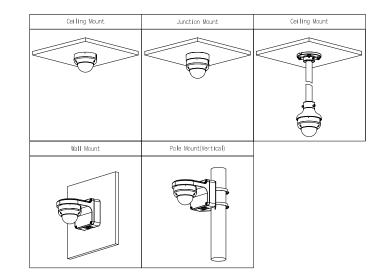
PFA109

Mount adapter

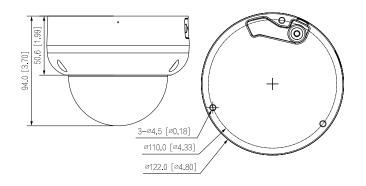
PFM321D 12 VDC 1 A Power Adapter



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])



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