

# DH-IPC-HDBW5442R-ASE

4MP 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 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 5442-ASE-S3 series.
- 4-MP 1/1.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688×1520) @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.
- 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.

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Technical Specification								Face detection; track; snapshot; snapshot optimization;
Camera								optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6
Image Sensor		1/1.8" CMOS					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.
Max. Resolution		2688 (H) × 1520 (V)						
ROM		4 GB					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, people counting in area and queue management.
RAM		1 GB						
Scanning System		Progressive						
Electronic Shutter Speed		- Auto/Manual 1/3 s-1/100,000 s					Heat Map	Yes
Min. Illumination		0.0007 lux@F1.6 (Color, 30IRE) 0.0004 lux@F1.6 (B/W, 30IRE) 0 lux (Illuminator on)					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.
S/N Ratio		>56 dB						
Illumination Distance		50 m (164.04 ft) (IR)						
Illuminator On/Off Control		Auto; Manual						
Illuminator Number		2 (IR LED) Pan: 0°–355°					Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
Angle Adjustment		Tilt: 0°–80° Rotation: 0°–355°					Smart Sound Detection	Yes
Lens							Video	
Lens Type		Fixed-focal					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Lens Mount		M12					Smart Codec	Smart H.265+; Smart H.264+
Focal Length		2.8 mm; 3.6	mm; 6 mm				AI Coding	AI H.265; AI H.264
Max. Aperture Field of View		F1.6 2.8 mm: H: 112°; V: 58°; D: 139° 3.6 mm: H: 88°; V: 50°; D: 102° 6 mm: H: 61°; V: 35°; D: 69°					Video Frame Rate	Main stream: 2688 × 1520@(1–25/30 fps) Sub stream: D1@(1–25/30 fps) Third stream: 1080p@(1–25/30 fps) Fourth stream: 720p@(1–25/30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected
Iris Control		Fixed						to the total encoding capacity.
		2.8 mm: 1.3 m (4.27 ft)					Stream Capability	4 streams
Close Focus I	Close Focus Distance		m (4.92 ft) (9.84 ft) Observe	Recognize	Identify		Resolution	4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048 × 1535); 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)
	Lens	Detect 61.5 m	24.6 m	12.3 m	6.2 m		Bit Rate Control	CBR/VBR
DORI Distance	2.8 mm	(201.77 ft) 67.6 m	(80.71 ft) 27.0 m	(40.35 ft) 13.5 m	(20.34 ft) 6.8 m		Video Bit Rate	H.264: 32 kbps–16384 kbps H.265: 12 kbps–11008 kbps
Distance	3.6 mm	(221.78 ft)	(88.58 ft)	(44.29 ft)	(22.31 ft)		Day/Night	Auto(ICR)/Color/B/W
	6 mm	96.6 m (316.93 ft)	38.6 m (126.64 ft)	19.3 m (63.32 ft)	9.7 m (31.82 ft)		BLC	Yes
Intelligence							HLC	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					WDR	140 dB
							Scene Self-adaptation (SSA)	Yes
		o					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Smart Object Detection		Smart abandoned object; smart missing object					Gain Control	Auto
SMD 3.0		Less false alarm, longer detection distance					Noise Reduction	3D NR
AI SSA		Yes						

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Motion Detection



OFF/ON (4 areas, rectangular)

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Region of Interest (Rol)	Yes (4 areas)					
Smart Illumination	Yes					
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; 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					
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	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; 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				
4MP	DH-IPC-HDBW5442R-ASE	4MP IR Fixed-focal Vandal-proof Dome WizMind Network Camera				
Camera	IPC-HDBW5442R-ASE	4MP IR Fixed-focal Vandal-proof Dome WizMind Network Camera				
	PFA137	Junction Box				
	PFB206W	Wall Mount Bracket				
	PFA109	Mount adapter				
Accessories	PFB220C	Ceiling Mount Bracket				
(Optional)	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







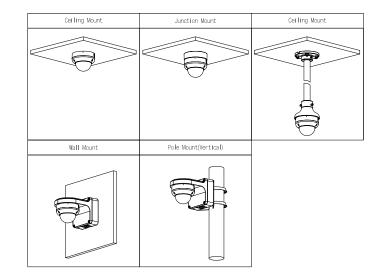
PFM321D 12 VDC 1 A Power Adapter

PFA109

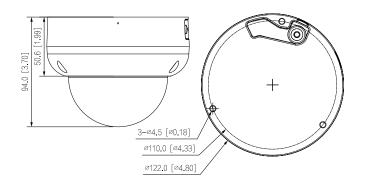
Mount adapter



TF-P100 MicroSD Memory Card



# Dimensions (mm[inch])



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