

DH-IPC-HDBW5442R-S

4MP IR Fixed-focal Dome WizMind Network Camera



Wiz Mind

Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, 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

With starlight solution and deep learning algorithm, Dahua WizMind 5 Series network camera has various intelligent functions, including face capture, perimeter protection and people counting, which greatly improve the accuracy of video analysis.

Functions

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.

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.

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 yearly/monthly/daily reports to meet your requirements.

- 4-MP 1/2.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688 × 1520)@30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 50 m.
- ROI, SVC, SMART H.264 +/H.265+, AI H.264/H.265, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Intelligent monitoring: Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); abandoned object, missing object, loitering detection, people gathering, parking detection, heat map and face detection.
- Abnormality detection: Motion detection, video tampering, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
 Supports max. 256 G Micro SD card.
- 12 VDC/PoE power supply, easy for installation.
- IP67 and IK10 protection.
- SMD 3.0.



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 works normal 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

Heat Map

SMD 3.0

Professional, intelligent

IVS (Perimeter Protection)

Yes

Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection

of vehicle and human); loitering detection, people

Less false alarm, longer detection distance

gathering, and parking detection

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Camera						
Image Sensor		1/1.8" CMOS				
Max. Resolution		2688 (H) × 1520 (V)				
ROM		128 MB				
RAM		512 MB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				
Min. Illumination		0.002 lux@F1.6 (Color, 30 IRE) 0.0002 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)				
S/N Ratio		>56 dB				
Illumination Distance		2.8 mm: 30 m (98.43 ft) (IR) 3.6 mm: 30 m (98.43 ft) (IR) 6 mm: 50 m (164.04 ft) (IR)				
Illuminator On/Off Control		Auto; manual				
Illuminator Number		1 (IR LED)				
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–75° Rotation: 0°–355°				
Lens						
Lens Type		Fixed-focal				
Lens Mount		M16				
Focal Length		2.8 mm; 3.6 mm; 6 mm				
Max. Aperture		F1.6				
Field of View		2.8 mm: Horizontal: 113°; Vertical: 60°; Diagonal: 134° 3.6 mm: Horizontal: 89°; Vertical: 48°; Diagonal: 104° 6 mm: Horizontal: 56°; Vertical: 31°; Diagonal: 65°				
Iris Control		Fixed				
Close Focus Distance		2.8 mm: 1.3 m (4.27 ft) 3.6 mm: 1.9 m (6.23 ft) 6mm: 3.8 m (12.47 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify	
	2.8mm	57.9 m (189.96 ft)	23.2 m (76.12 ft)	11.6 m (38.06 ft)	5.8 m (19.03 ft)	
	3.6mm	71.7 m (235.34 ft)	28.7 m (94.16 ft)	14.3 m (46.92 ft)	7.2 m (23.62 ft)	
	6mm	113.1 m (371.06 ft)	45.2 m (148.29 ft)	22.6 m (74.15 ft)	11.3 m (37.07 ft)	
Smart Event						
IVS		Abandoned object; missing object				

intelligent search, event extraction and merging to event videos Video H.265; H.264; H.264H; H.264B; MJPEG (Only supported Video Compression by the sub stream) Smart H.265+; Smart H.264+ Smart Codec AI H.265; AI H.264 AI Coding Main stream: 2688 × 1520@(1-25/30 fps) Sub stream: D1@(1-25/30 fps) Third stream: 1080p@(1-25/30 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 3 streams 4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 Resolution × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240) CBR/VBR Bit Rate Control H.264: 3 kbps-20480 kbps Video Bit Rate H.265: 3 kbps-20480 kbps Day/Night Auto(ICR)/Color/B/W BLC Yes HLC Yes 120 dB WDR Scene Self-adaptation Yes (SSA) Auto; natural; street lamp; outdoor; manual; regional White Balance custom Gain Control Auto; manual Noise Reduction 3D NR Motion Detection OFF/ON (4 areas, rectangular) Region of Interest (Rol) Yes (4 areas) Defog Yes 0°/90°/180°/270° (Support 90°/270° with 4M resolution Image Rotation and lower) Mirror Yes Privacy Masking 8 areas Alarm No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast Alarm Event moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; face detection; SMD; people counting in area; stay detection; people counting; security exception

Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face snapshot set as face, one-inch photo

or custom; 3 snapshot strategies (real-time snapshot, optimization snapshot and quality first); face angle filter;

Tripwire people counting, generating and exporting report (day/month); people counting in area; queue

management; 4 rules can be set for tripwire, people counting in area and queue management. Work together with Smart NVR to perform refine

optimization time setting

Face Detection

People Counting

Smart Search

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Network

Network					
Network Port	RJ-45 (10/100 Base-T)				
SDK and API	Yes				
Cyber Security	Video encryption; Firmware encryption; Configuration encryption; Digest; WSSE; Account lockout; Security logs; IP/MAC filtering; Generation and importing of X.509 certification; syslog; HTTPS; 802.1x; Trusted boot; Trusted execution; Trusted upgrade				
Network Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; 802.1x SNMP				
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; P2P				
User/Host	20 (Total bandwidth: 80 M)				
Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS				
Browser	IE: IE8 and later Chrome Firefox				
Management Software	Smart PSS;DSS;DMSS				
Mobile Client	iOS; Android				
Certification					
Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07				
Power					
Power Supply	12 VDC/PoE (802.3af)				
Power Consumption	Basic: 2.4 W (12 VDC); 2.8 W (PoE) Max. (H.265 + three streams + intelligence on + IR on): 5.4 W (12 VDC); 5.8 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)				
Protection	IP67; IK10				
Structure					
Casing	Metal + plastic				
Product Dimensions	Φ122 mm × 88.9 mm (4.80" × Φ3.50")				
Net Weight	470 g (1.03 lb)				
Gross Weight	630 g (1.39 lb)				

Ordering Information					
Туре	Model	Description			
4MP Camera	DH-IPC-HDBW5442RP-S	4MP IR Fixed-focal Dome WizMind Network Camera, PAL			
	DH-IPC-HDBW5442RN-S	4MP IR Fixed-focal Dome WizMind Network Camera, NTSC			
	PFB203W	Wall Mount Bracket			
	PFA152-E	Pole Mount Bracket			
	PFB220C	Ceiling Mount Bracket			
	PFA151	Corner Mount Bracket			
Accessories	PFA137	Junction Box			
	PFA106	Mount Adapter			
	PFM321D	12 VDC 1A Power Adapter			
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender			
	PFM900-E	Integrated Mount Tester			

Accessories

Optional:



Bracket



Pole Mount

Bracket

PFB220C Ceiling Mount



PFA151

PFA106 Mount Adapter





12 VDC 1A Power

Adapter



LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extender



PFM900-E Integrated Mount Tester









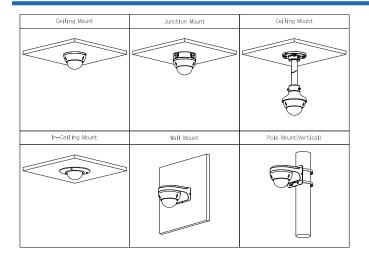




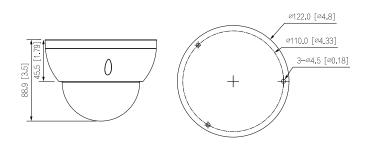




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Dimensions (mm[inch])



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