

DH-IPC-HDBW5241R-S

2MP IR Fixed-focal Dome WizMind Network Camera





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.

- 2-MP 1/2.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 2 MP (1920 × 1080)@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.

Technical Specification							Face detection; track; snapshot; snapshot optimization;	
Camera					Face Detection	optimal face snapshot upload; face enhancement; face exposure; face snapshot set as face, one-inch photo or custom; a snapshot trategie (real time snapshot		
Image Sensor		1/2.8" CMOS	5				or custom; 3 snapshot strategies (real-time snapshot, optimization snapshot and quality first); face angle filter; optimization time setting	
Max. Resolution		1920 (H) × 1080 (V)					Tripwire people counting, generating and exporting	
ROM		128 MB				People Counting	report (day/month); people counting in area; queue management; 4 rules can be set for tripwire, people	
RAM		512 MB					counting in area and queue management.	
Scanning System		Progressive				Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos	
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				Video		
Min. Illumination			1.6 (Color, 30 IF F1.6 (B/W, 30 IF ator on)			Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)	
S/N Ratio		>56 dB				Smart Codec	Smart H.265+; Smart H.264+	
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)				Al Coding	AI H.265; AI H.264 Main stream: 1080p@(1-25/30 fps) Sub stream: D1@(1-25/30 fps)	
Illuminator On/Off Control		Auto; manual				Video Frame Rate	*Third stream: 1080p@(1–25/30 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.	
Illuminator Number		1 (IR LED)						
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78°				Stream Capability	3 streams	
Lens		Rotation: 0°–360°				Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
Lens Type		Fixed-focal				Bit Rate Control	CBR/VBR	
Lens Mount		M12				Video Bit Rate	H.264: 3 kbps–20480 kbps H.265: 3 kbps–20480 kbps	
Focal Length		2.8 mm; 3.6 mm; 6 mm				Day/Night	Auto(ICR)/Color/B/W	
Max. Aperture		F1.6				BLC	Yes	
			izontal: 106°; V			HLC	Yes	
Field of View		3.6 mm: Horizontal: 87°; Vertical: 46°; Diagonal: 104° 6 mm: Horizontal: 53°; Vertical: 30°; Diagonal: 60°				WDR	120 dB	
Iris Control		Fixed				Scene Self-adaptation (SSA)	Yes	
Close Focus Distance		2.8 mm: 0.6 m (1.97 ft) 3.6 mm: 1.2 m (3.94 ft) 6 mm: 2.5 m (8.20 ft)				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
	Lens	Detect	Observe	Recognize	Identify	Gain Control	Auto; manual	
	2.8 mm	38.6 m	15.4 m	7.7 m	3.9 m	Noise Reduction	3D NR	
DORI	2.0 111111	(126.64 ft)	(50.52 ft)	(25.26 ft)	(12.80 ft)	Motion Detection	OFF/ON (4 areas, rectangular)	
Distance	3.6 mm	55.2 m (181.10 ft)	22.1 m (72.51 ft)	11.0 m (36.09 ft)	5.5 m (18.04 ft)	Region of Interest (Ro		
	6 mm	82.8 m (271.65 ft)	33.1 m (108.60 ft)	16.6 m (54.46 ft)	8.3 m (27.23 ft)	Defog	Yes 0°/90°/180°/270° (Support 90°/270° with 4M resolution	
Smart Event						Image Rotation	and lower)	
IVS		Abandoned object; missing object				Mirror	Yes	
Heat Map		Yes				Privacy Masking	8 areas	
Professional, intelligent						Alarm		
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				Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; voltage detection; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection;	
SMD 3.0		Less false alarm, longer detection distance					scene changing, face detection; SMD; people counting in area; stay detection; people counting; security exception	

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; RTCF 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: IE 8 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: 1.9 W (12 VDC); 2.4 W (PoE) Max. (H.265 + three streams + intelligence on + IR on): 4.5 W (12 VDC); 5 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	455 g (1.00 lb)				
Gross Weight	615 g (1.36 lb)				

Ordering Information						
Туре	Model	Description				
2MP Camera	DH-IPC-HDBW5241RP-S	2MP IR Fixed-focal Dome WizMind Network Camera, PAL				
ZIMP Camera	DH-IPC-HDBW5241RN-S	2MP 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:



PFB203W Wall Mount Bracket



PFA152-E Pole Mount Bracket



PFB220C Ceiling Mount Bracket



PFA151 Corner Mount Bracket



PFA137 Junction box



PFA106 Mount Adapter



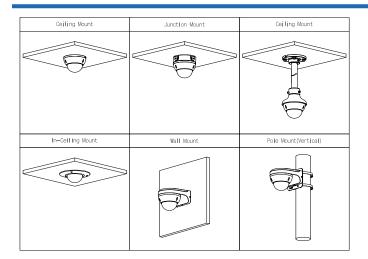
PFM321D 12 VDC 1A Power Adapter



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



PFM900-E Integrated Mount Tester



Dimensions (mm[inch])

