

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.

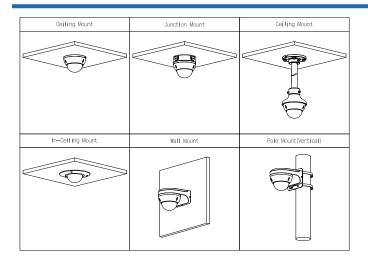
Technical Specification								Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face	
Camera							Face Detection	exposure; face snapshot set as face, one-inch photo or custom; 3 snapshot strategies (real-time snapshot,	
Image Sensor		1/2.8" CMOS						optimization snapshot and quality first); face angle filter; optimization time setting	
Max. Resolution		1920 (H) × 1080 (V)						Support the counting of enter number, leave number and pass number, and displaying and outputting yearly/monthly/daily reports. Support the counting of number in area, and 4 rules configuration. Count number of people or stay time and link alarm.	
ROM		128 MB							
RAM		512 MB					People Counting		
Scanning System		Progressive						Support queue management, and 4 rules configuration. Count number of people or stay time and link alarm.	
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s					Consult Consult	Work together with Smart NVR to perform refine	
Min. Illumination		0.002 lux@F1.6 (Color, 30 IRE) 0.0002 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)					Smart Search intelligent search, event extraction and merging to event videos Video		
S/N Ratio		>56 dB					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)	
Illumination Distance		50 m (164.04 ft) (IR)					Smart Codec	Smart H.265+; Smart H.264+	
Illuminator On/Off Control		Auto; manual					AI Coding	AI H.265; AI H.264	
Illuminator Number Pan/Tilt/Rotation Range		1 (IR LED) Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°					Video Frame Rate	Main stream: 1080p@(1-25/30 fps) Sub stream: 01@(1-25/30 fps) 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	
Lens							Stream Capability	to the total encoding capacity. 3 streams	
Lens Type		Fixed-focal					on can capability	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
Lens Mount		M12					Resolution		
Focal Length		2.8 mm; 3.6 mm; 6 mm					Bit Rate Control	CBR/VBR	
Max. Aperture		F1.6					Video Bit Rate	H.264: 3 kbps–20480 kbps H.265: 3 kbps–20480 kbps	
Field of View		2.8 mm: Horizontal: 106°; Vertical: 57°; Diagonal: 126° 3.6 mm: Horizontal: 87°; Vertical: 46°; Diagonal: 104° 6 mm: Horizontal: 53°; Vertical: 30°; Diagonal: 60°					Day/Night	Auto(ICR)/Color/B/W	
							BLC	Yes	
Iris Control		Fixed					HLC	Yes	
Close Focus Distance		2.8 mm: 0.6 m (1.97 ft) 3.6 mm: 1.2 m (3.94 ft)					WDR	120 dB	
	Long	6 mm: 2.5 m (8.20 ft) Detect Observe Recognize Identify				Scene Self-adaptation (SSA)	Yes		
	Lens	Detect 38.6 m	15.4 m	Recognize 7.7 m	Identify 3.9 m		White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
DORI	2.8 mm	(126.64 ft)	(50.52 ft)	(25.26 ft)	(12.80 ft)		Gain Control	Auto; manual	
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)		Noise Reduction	3D NR	
	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)		Motion Detection	OFF/ON (4 areas, rectangular)	
Smart Eve	ent	(27.23 t) (20.00 t) (36 t)					Region of Interest (RoI)	Yes (4 areas)	
IVS		Abandoned object; missing object					Defog	Yes	
Heat Map		Yes					Image Rotation	0°/90°/180°/270°	
	nal, intellige	ent					Mirror	Yes	
, 3		Intrusion, tripwire, fast moving (the three functions					Privacy Masking	8 areas	
IVS (Perimeter Protection)		support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection							

gathering, and parking detection

Less false alarm, longer detection distance

SMD 3.0

Alarm		Ordering Information				
	No SD card; SD card full; SD card error; network	Туре	Model	Description		
Alarm Event	disconnection; IP conflict; illegal access; voltage detection; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object;	2MP Camera	DH-IPC-HDBW5241RP-S	2MP IR Fixed-focal Dome WizMind Network Camera, PAL		
	loitering detection; people gathering; parking detection; scene changing; face detection; SMD; people counting in area; stay detection; people counting; security exception	Zivir Camera	DH-IPC-HDBW5241RN-S	2MP IR Fixed-focal Dome WizMind Network Camera, NTSC		
Network			PFB203W	Wall Mount Bracket		
Network Port	RJ-45 (10/100 Base-T)		PFA152-E	Pole Mount Bracket		
SDK and API	Yes		PFB220C	Ceiling Mount Bracket		
	Video encryption; Firmware encryption; Configuration encryption; Digest; WSSE; Account lockout; Security logs;	Accessories	PFA151	Corner Mount Bracket		
Cyber Security	IP/MAC filtering; Generation and importing of X.509 certification; syslog; HTTPS; 802.1x; Trusted boot; Trusted execution; Trusted upgrade		PFA137	Junction Box		
	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP;		PFA106	Mount Adapter		
Network Protocol	RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; 802.1x; SNMP		PFM321D PFM900-E	12 VDC 1A Power Adapter Integrated Mount Tester		
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; P2P		TF-P100	MicroSD Memory Card		
User/Host	20 (Total bandwidth: 80 M)					
Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS	Accessories				
Browser	IE: IE 8 and later Chrome Firefox	Optional:				
Management Software	Smart PSS; DSS; DMSS			Ĭ		
Mobile Client	iOS; Android					
Certification		PFB203W Wall Mour	TITAL E	PFB220C		
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	Bracket Bracke		Ceiling Mount Bracket		
Power		804				
Power Supply	12 VDC/PoE (802.3af)	PFA151 Corner Mou	PFA137 unt Junction box	PFA106 Mount Adapter		
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		9	alhua	\@lhua		
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)			256 _{GB}		
Operating Humidity	ing Humidity ≤95%					
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		PFM900-E ower Integrated	MicroSD		
Protection	IP67; IK10	Adapter	Mount Test	er Memory Card		
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)					



Dimensions (mm[inch])

