

DH-IPC-HDBW5541R-S

5MP 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.

- 5-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 5 MP (2592 × 1944)@20 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		1/2.7" CMOS						optimization snapshot and quality first); face angle filter; optimization time setting
Max. Resolution		2592 (H) × 1944 (V)					People Counting	Tripwire people counting, generating and exporting report (day/month); people counting in area; queue
ROM		128 MB						management; 4 rules can be set for tripwire, people counting in area and queue management.
RAM		512 MB					Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event
Scanning System		Progressive						videos
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s					Video	
Min. Illumination		0.005 lux@F1.6 (Color, 30 IRE) 0.0005 lux@F1.6 (B/W, 30 IRE)					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
		0 lux (Illuminator on)					Smart Codec	Smart H.265+; Smart H.264+
S/N Ratio		>56 dB					Al Coding	AI H.265; AI H.264
Illumination Distance Illuminator On/Off Control		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) Auto;Manual					Video Frame Rate	Main stream: 2592×1944@(1–20 fps) Sub stream: D1@(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
Illuminator Number		1 (IR LED)						to the total encoding capacity.
		Pan: 0°–355°					Stream Capability	3 streams
Pan/Tilt/Rotation Range		Tilt: 0°–75° Rotation: 0°–355°					Resolution	2592 × 1944; 2688 × 1520; 2304 × 1296; 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352
Lens							Bit Rate Control	× 240) CBR/VBR
Lens Type		Fixed-focal						H.264: 3 kbps–20480 kbps
Lens Mount		M12					Video Bit Rate	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
T. 11 615		2.8 mm: Horizontal: 102°; Vertical: 71°; Diagonal: 131°					HLC	Yes
Field of View		3.6 mm: Horizontal: 84°; Vertical: 58°; Diagonal: 110° 6 mm: Horizontal: 51°; Vertical: 37°; Diagonal: 63°					WDR	120 dB
Iris Control		Fixed					Scene Self-adaptation (SSA)	Yes
Close Focus Distance		2.8 mm: 0.9 m (2.95 ft) 3.6 mm: 1.6 m (5.25 ft) 6 mm: 3.1 m (10.17 ft)					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
	1.						Gain Control	Auto;Manual
	Lens	Detect	Observe	Recognize	Identify		Noise Reduction	3D NR
DORI	2.8mm	56 m (183.73 ft)	22.4 m (73.49 ft)	11.2 m (36.75 ft)	5.6 m (18.37 ft)		Motion Detection	OFF/ON (4 areas, rectangular)
Distance	3.6mm	80 m (262.47 ft)	32 m (104.99 ft)	16 m (52.49 ft)	8 m (26.25 ft)		Region of Interest (RoI)	Yes (4 areas)
	6mm	120 m	48 m	24 m	12 m		Defog	Yes
Smart Event		(393.70 ft)	(157.48 ft)	(78.74 ft)	(39.37 ft)		Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 4M resolution and lower)
IVS		Abandoned object; missing object					Mirror	Yes
							Privacy Masking	8 areas
Heat Map		Yes					Alarm	
Professio	nal, intellige						, Martin	No SD card; SD card full; SD card error; network
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	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; 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: 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: 2 W (12 VDC); 2.6 W (PoE) Max. (H.265 + three streams + intelligence on + IR on): 4.7 W (12 VDC); 5.2 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	Ф122 mm × 88.9 mm (4.80" × Ф3.50")
Net Weight	470 g (1.03 lb)
Gross Weight	630 g (1.39 lb)

Ordering Information							
Туре	Model	Description					
ENAD Comoro	DH-IPC-HDBW5541RP-S	5MP IR Fixed-focal Dome WizMind Network Camera, PAL					
5MP Camera	DH-IPC-HDBW5541RN-S	5MP 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



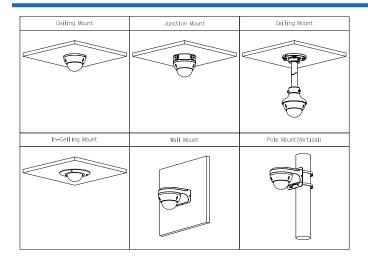
PFM321D 12 VDC 1A Power Adapter



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



PFM900-E Integrated Mount Tester



Dimensions (mm[inch])

