



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
- \cdot Outputs max. 5MP (2592 × 1944)@20 fps , and supports 4MP (2688 × 1520)@25/30 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 ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

SMD 3.0

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	Support the counting of enter number, leave number and pass number, and displaying and outputting yearly/
ROM		128 MB						monthly/daily reports. Support the counting of number in area, and 4 rules
RAM		512 MB						configuration. Count number of people or stay time and link alarm.
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 intelligent search, event extraction and merging to event
Min. Illumination		0.005 lux@F1.6 (Color, 30 IRE) 0.0005 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)					Smart Search Video	videos
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		1 (IR LED)					Video Frame Rate	Main stream: $2592 \times 1944@(1-20 \text{ fps})/2688 \times 1520@(1-25/30 \text{ fps})/1920 \times 1080@(1-50/60 \text{ fps})$ Sub stream: $D1@(1-25/30 \text{ fps})$ Third stream: $1080p@(1-25/30 \text{ fps})$ *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–75° Rotation: 0°–355°						
Lens								
Lens Type		Fixed-focal					Stream Capability	3 streams
Lens Mount		M12					Stream capability	2592 × 1944; 2688 × 1520; 2304 × 1296; 1080p (1920 ×
Focal Length		2.8 mm; 3.6 mm; 6 mm					Resolution 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (70 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/3 × 240)	
Max. Aperture		F1.6					Bit Rate Control	CBR/VBR
Field of View		2.8 mm: Horizontal: 102°; Vertical: 71°; Diagonal: 131° 3.6 mm: Horizontal: 84°; Vertical: 58°; Diagonal: 110° 6 mm: Horizontal: 51°; Vertical: 37°; Diagonal: 63°					Video Bit Rate	H.264: 3 kbps–20480 kbps H.265: 3 kbps–20480 kbps
Iris Control		Fixed					Day/Night	Auto(ICR)/Color/B/W
		2.8 mm: 0.9 m (2.95 ft)					BLC	Yes
Close Focus Distance		3.6 mm: 1.6 m (5.25 ft) 6 mm: 3.1 m (10.17 ft)					HLC	Yes
DORI Distance	Lens	Detect	Observe	Recognize	Identify		WDR	120 dB
	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)		Scene Self-adaptation (SSA)	Yes
	3.6mm	80 m	32 m (104.99 ft)	16 m	8 m		White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
	C	(262.47 ft) 120 m	48 m	(52.49 ft) 24 m	(26.25 ft) 12 m		Gain Control	Auto;Manual
	6mm	(393.70 ft)	(157.48 ft)	(78.74 ft)	(39.37 ft)		Noise Reduction	3D NR
Smart Eve	ent						Motion Detection	OFF/ON (4 areas, rectangular)
IVS		Abandoned object; missing object					Region of Interest (RoI)	Yes (4 areas)
Heat Map		Yes					Defog	Yes
Professio	nal, intellige						Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 4M resolution and lower)
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					Mirror	Yes

Less false alarm, longer detection distance

Privacy Masking	8 areas					
Alarm						
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; scene changing; face detection; SMD; people counting ir 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; RTC RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; 802.1 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				
SAD Course	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				
	PFM900-E	Integrated Mount Tester				
	TF-P100	MicroSD Memory Card				

Accessories

Optional:



PFB203W Wall Mount Bracket



PFA152-E Pole Mount Bracket



PFB220C Ceiling Mount Bracket



PFA151 Corner Mount



PFA137 Junction box



PFA106 Mount Adapter



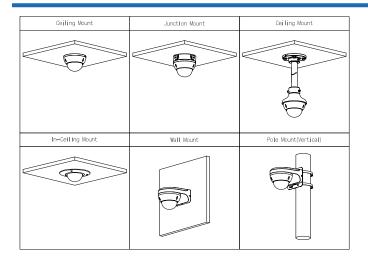
PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

