



# DH-IPC-HDBW5541R-ASE

5MP 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.

- 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.
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card
- 12 VDC/PoE power supply, easy for installation.
- ePoE; IP67 and IK10 protection.
- SMD 3.0.











## ePoE

Dahua's innovative ePoE technology offers a new solution to transmit power and data over long distances between cameras and network switch, allowing more flexible design of surveillance system, improving reliability, reducing installation time and saving money. ePoE technology encompasses pure network systems where a single CAT6 cable can carry signals up to 300 m (984 ft) at 100 Mbps, 800 m (2625 ft) at 10 Mbps.

#### **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						
Camera						
Image Sensor		1/2.7" CMOS				
Max. Resolution		2592 (H) × 1944 (V)				
ROM		128 MB				
RAM		512 MB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				
Min. Illumination		0.005 lux@F1.6 (Color, 30 IRE) 0.0005 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)				
S/N Ratio		>56 dB	>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		M12				
Focal Length		2.8 mm; 3.6 mm; 6 mm				
Max. Apertu	re	F1.6				
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°				
Iris Control		Fixed				
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)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify	
	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)	
	3.6mm	80 m (262.47 ft)	32 m (104.99 ft)	16 m (52.49 ft)	8 m (26.25 ft)	
	6mm	120 m	48 m	24 m	12 m	

(393.70 ft) (157.48 ft)

(78.74 ft)

Smart Event					
IVS	Abandoned object; missing object				
Heat Map	Yes				
Professional, intelligent					
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				
SMD 3.0	Less false alarm, longer detection distance				
Face Detection	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; optimization time setting				
People Counting	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.				
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos				
Video					
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)				
Smart Codec	Smart H.265+; Smart H.264+				
Al Coding	AI H.265; AI H.264				
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 to the total encoding capacity.				
Stream Capability	3 streams				
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 × 240)				
Bit Rate Control	CBR/VBR				
Video Bit Rate	H.264: 3 kbps–20480 kbps H.265: 3 kbps–20480 kbps				
Day/Night	Auto(ICR)/Color/B/W				
BLC	Yes				
HLC	Yes				
WDR	120 dB				
Scene Self-adaptation (SSA)	Yes				
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom				
Gain Control	Auto; manual				
Noise Reduction	3D NR				
Motion Detection	OFF/ON (4 areas, rectangular)				
Region of Interest (RoI)	Yes (4 areas)				
Defog	Yes				

(39.37 ft)

Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 4M resolution and lower)	
Mirror	Yes	
Privacy Masking	8 areas	
Audio		
Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723	
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; audio detection; external alarm; 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: 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	
Port		
Audio Input	1 channel (RCA port)	
Audio Output	1 channel (RCA port)	
Alarm Input	1 channel in: 5 mA 3–5 VDC	
Alarm Output	1 channel out: 300 mA 12 VDC	
Power		
Power Supply	12 VDC/PoE (802.3af)/ePoE	
Power Consumption	Basic: 2.7 W (12 VDC); 3.2 W (PoE) Max. (H.265 + three streams + intelligence on + IR on ): 5.4 W (12 VDC); 6 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		
5MP Camera	DH-IPC-HDBW5541RP-ASE	5MP IR Fixed-focal Dome WizMind Network Camera, PAL		
	DH-IPC-HDBW5541RN-ASE	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



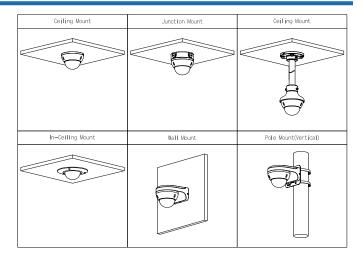
PFA151 Corner Mount Bracket



PFA137 Junction box



PFA106 Mount Adapter



# Dimensions (mm[inch])



PFM321D 12 VDC 1A Power Adapter



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



PFM900-E Integrated Mount Tester

