

# 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. Wiz Mind | DH-IPC-HDBW5541R-ASE

#### 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

cumeru	Camera				
Image Sensor		1/2.7" CMOS			
Max. Resolution		2592 (H) × 1944 (V)			
ROM		128 MB			
RAM		512 MB			
Scanning Sys	tem	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			
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 (393.70 ft)	48 m (157.48 ft)	24 m (78.74 ft)	12 m (39.37 ft)

#### Smart Event

Smart Event				
IVS	Abandoned object; missing object			
Heat Map	Yes			
Professional, intellige	nt			
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+			
AI 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			

# Wiz Mind | DH-IPC-HDBW5541R-ASE

Image Rotation0'/90'/180'/270' (Support 90'/270' with 4M resolution and lower)MirorVesPrivacy Masking8 areasAudioPCM; 6.711a, 6.711Mu; G.726, 6.723Audio CompressionPCM; 6.711a, G.711Mu; G.726, 6.723AlarmNo 5D card; 5D card full; SD card error; network disconnection; IP conflict; Illegal access, voltage disconnection; Pool Pool and Importing of XDAlarm EventNo 5D card; 5D card full; SD card error; network disconnection; Pool Pool and Importing of XDNetwork PortRi-45 (10/100 Base-T)SDK and APIYesNetwork ProtocolRiveryPhotip Errowser encryption; Configuration riceryPhotip Errowser encryption; Configuration proting throwser, SDN, SOS; UPAP, RY, MURES, STMP; SDC, OD, UDP, ARP; RTP; RTP; RUP, SDN, FIP; SPTP; DicC, DDP, ARP; RTP; RTP; RUP, SDN, FIP; SPTP; DicC, DDD, SDN; ODS; ODS; UPAP, RY, MURES, SDN, PSTP; DicC, DDD, SDN; ODS; DDN; SDN, POS; UPAP, RY, MURES, SDN, SDN; SDN; ODS; DDN; SDN, POS; UPAP, RY, MURES, SDN, SDN; SDN; SDN; DDN; SDN, POS; UPAP, RY, MURES, SDN, SDN; DDN; ODS; DDN; SDN, POS; UPAP, RY, MURES, SDN, SDN; DDN; ODS; DDN; SDN; DDN; SDN, POS; UPAP, RY, MURES, SDN, SDN; DDN; DDN; DDN; SDN; SDN; DDN; DD		
Privacy MaskingB areasAudio CompressionPCMS c.711a, G.711Mu, G.726, G.723Audio CompressionPCMS c.711a, G.711Mu, G.726, G.723AlarmNo S0 card, SD card (II) SD card error; network disconnection; iP conflict; illegal access; voltage detection; motion detection; volta campering; triving object; intrusion; fast moving: abandoned object; missing object; detection, SMD, people counting; area; stay detection; people counting; accurity intrusion; fast moving: abandoned object; missing object; detection; SMD, people counting; area; stay detection; specification; people gathering; parking detection; specification; people gathering; parking detection; specification; system; face detection; SMD, people counting; area; stay detection; specification; system; face detection; SMD, people counting in area; stay detection; specification; system; face detection; SMD, people counting; area; stay detection; specification; system; face detection; SMD, People; GMD, SMD, PEOPE errification; System; FITP; STP; DHCP; DNS; DDNS; DOS; UPNP; PitP, Multicat; (UMP; IGMP; NFS; SAMBA; PPPOE; 802,15; SMDA; PPPOE; 802,16; SMDA;	Image Rotation	
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Network ProtocolRTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; 802.1x; SNMPInteroperabilityONVIF (Profile S/Profile G/Profile T); CGI; Milestone; P2PUser/Host20 (Total bandwidth: 80 M)StorageFTP; SFTP; Micro SD card (support max. 256 GB); NASBrowserIE: IE8 and later Chrome FirefoxManagement SoftwareSmart PSS;DSS;DMSSMobile ClientiOS; AndroidCertificationCE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EUCertificationsCE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EUPortI channel (RCA port)Audio Input1 channel (RCA port)Audio Output1 channel in: 5 mA 3-5 VDCAlarm Output1 channel out: 300 mA 12 VDCPowerI2 VDC/POE (802.3af)/ePOEPower ConsumptionMasic: 2.7 W (12 VDC); 3.2 W (POE) Max. (H.265 + three streams + intelligence on + IR on ):	Cyber Security	encryption; Digest; WSSE; Account lockout; Security logs; IP/MAC filtering; Generation and importing of X.509 certification; syslog; HTTPS; 802.1x; Trusted boot; Trusted
IterationIterationUser/Host20 (Total bandwidth: 80 M)StorageFTP; SFTP; Micro SD card (support max. 256 GB); NASBrowserIE: IE8 and later Chrome FirefoxManagement SoftwareSmart PSS;DSS;DMSSMobile ClientiOS; AndroidCertificationCertificationCertificationsCE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CU1: 	Network Protocol	RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; 802.1x;
StorageFTP; SFTP; Micro SD card (support max. 256 GB); NASBrowserIE: IE8 and later Chrome FirefoxManagement SoftwareSmart PSS;DSS;DMSSMobile ClientioS; AndroidCertificationE: LVD: EN60950-1 CE: ENC: Electromagnetic Compatibility Directive 	Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; P2P
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Mobile ClientioS; AndroidCertificationCertifications <tr< td=""><td>Browser</td><td>Chrome</td></tr<>	Browser	Chrome
CertificationCertificationsCE-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.60950-1-07PortAudio Input1 channel (RCA port)Audio Output1 channel (RCA port)Alarm Input1 channel in: 5 mA 3–5 VDCAlarm Output1 channel out: 300 mA 12 VDCPowerPowerPower Supply12 VDC/POE (802.3af)/ePOEPower ConsumptionBasic: 2.7 W (12 VDC); 3.2 W (POE) Max. (H.265 + three streams + intelligence on + IR on ):	Management Software	Smart PSS;DSS;DMSS
CertificationsCE-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.60950-1-07PortAudio Input1 channel (RCA port)Audio Output1 channel (RCA port)Alarm Input1 channel in: 5 mA 3–5 VDCAlarm Output1 channel out: 300 mA 12 VDCPowerIPower Supply12 VDC/PoE (802.3af)/ePoEPower ConsumptionBasic: 2.7 W (12 VDC); 3.2 W (PoE) Max. (H.265 + three streams + intelligence on + IR on ):	Mobile Client	iOS; Android
CertificationsCE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07PortAudio Input1 channel (RCA port)Audio Output1 channel (RCA port)Alarm Input1 channel in: 5 mA 3–5 VDCAlarm Output1 channel out: 300 mA 12 VDCPower12 VDC/PoE (802.3af)/ePoEPower Supply12 VDC/PoE (802.3af)/ePoEPower ConsumptionBasic: 2.7 W (12 VDC); 3.2 W (PoE) Max. (H.265 + three streams + intelligence on + IR on ):	Certification	
Audio Input1 channel (RCA port)Audio Output1 channel (RCA port)Alarm Input1 channel in: 5 mA 3–5 VDCAlarm Output1 channel out: 300 mA 12 VDCPower12 VDC/PoE (802.3af)/ePoEPower Supply12 VDC/PoE (802.3af)/ePoEPower ConsumptionBasic: 2.7 W (12 VDC); 3.2 W (PoE) Max. (H.265 + three streams + intelligence on + IR on ):	Certifications	CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1
Audio Output1 channel (RCA port)Alarm Input1 channel in: 5 mA 3–5 VDCAlarm Output1 channel out: 300 mA 12 VDCPower12 VDC/PoE (802.3af)/ePoEPower Supply12 VDC/PoE (802.3af)/ePoEPower ConsumptionBasic: 2.7 W (12 VDC); 3.2 W (PoE) Max. (H.265 + three streams + intelligence on + IR on ):	Port	
Alarm Input1 channel in: 5 mA 3–5 VDCAlarm Output1 channel out: 300 mA 12 VDCPower12 VDC/PoE (802.3af)/ePoEPower Supply12 VDC/PoE (802.3af)/ePoEPower ConsumptionBasic: 2.7 W (12 VDC); 3.2 W (PoE) Max. (H.265 + three streams + intelligence on + IR on ):	Audio Input	1 channel (RCA port)
Alarm Output 1 channel out: 300 mA 12 VDC   Power 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 ):	Audio Output	1 channel (RCA port)
Power 12 VDC/PoE (802.3af)/ePoE   Power Supply 12 VDC/PoE (802.3af)/ePoE   Basic: 2.7 W (12 VDC); 3.2 W (PoE)   Max. (H.265 + three streams + intelligence on + IR on ):	Alarm Input	1 channel in: 5 mA 3–5 VDC
Power Supply   12 VDC/PoE (802.3af)/ePoE     Basic: 2.7 W (12 VDC); 3.2 W (PoE)     Max. (H.265 + three streams + intelligence on + IR on ):	Alarm Output	1 channel out: 300 mA 12 VDC
Basic: 2.7 W (12 VDC); 3.2 W (PoE)       Power Consumption     Max. (H.265 + three streams + intelligence on + IR on ):	Power	
Power Consumption Max. (H.265 + three streams + intelligence on + IR on ):	Power Supply	12 VDC/PoE (802.3af)/ePoE
	Power Consumption	Max. (H.265 + three streams + intelligence on + IR on ):

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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	

# Wiz Mind | DH-IPC-HDBW5541R-ASE

## Accessories

#### Optional:



Wall Mount Bracket



PFA152-E Pole Mount Bracket

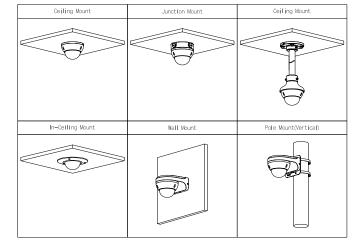


PFB220C Ceiling Mount Bracket



PFA137 Junction box

PFA106 Mount Adapter



# Dimensions (mm[inch])



PFA151 Corner Mount

Bracket

PFM321D 12 VDC 1A Power Adapter



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



