

DH-IPC-HDBW5541E-ZE

5MP IR Vari-focal Dome WizMind Network Camera



epoer 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. The series camera supports dustproof function, waterproof function and vandal-proof function, complying with the standards of IP67 and IK10 (Supported by some select models).

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.

Face Attributes

With deep learning algorithm, the network camera can recognize face attributes, such as gender, age, expression, glasses, mouth mask, and beard.

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.

- · 1/2.7" 5Megapixel progressive scan CMOS
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- · 20 fps@2592 × 1944, 50/60 fps@1080P (1920 × 1080)
- · WDR (120 dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC
- \cdot Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- · 2.7 mm–13.5 mm motorized lens
- \cdot 1/1 Alarm in/out, 1/1 audio in/out
- \cdot Max. IR LEDs Length 40 m
- \cdot Micro SD memory, IP67, IK10



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.

ePoE

Dahua ePoE technology provides a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves construction and wiring cost.

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.



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Technical Specification

Camera

Camera					
Image Sensor		1/2.7" 5Megapixel progressive scan CMOS			
Max. Resolution		2592 (H) × 1944 (V)			
RAM/ROM		1 GB/128 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual, 1/3 s-1/100000 s			
S/N Ratio		> 56 dB			
Minimum Illumination		0.005 Lux@F1.5			
Illumination Distance		Distance up to 40 m (131 ft)			
Illuminator On/Off Control		Auto/Manual			
Illuminator Num	ber	3(IR LED)			
Lens					
Lens Type		Motorized vari-focal			
Mount Type		Board-in			
Focal Length		2.7 mm–13.5 mm			
Max. Aperture		F1.5			
Angle of View		H: 100°–28°, V: 72°–21° (2592 × 1944) H: 104°–29°, V: 55°–16° (2688 × 1520)			
Aperture Type		Auto			
Close Focus Dist	ance	0.8 m (2.62 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	W	64m(210ft)	26m(85ft)	13m(43ft)	6m(20ft)
	Т	212m(696ft)	85m(279ft)	42m(138ft)	21m(69ft)
Pan/Tilt/Rota	tion				
Pan/Tilt/Rotatic	n Range	Pan: 0°–355°; Tilt: 0°–65°; Rotation: 0°–355°			
Artificial Intel	ligence				
Face Detection		Face detection; track; optimization; snapshot; report high quality picture; face enhancement; face exposure; face attribute extract, 6 attributes and 8 expressions: Gender, age, glasses, expressions (anger, calm, happiness, sadness, disgust, surprise, confusion and fear), mask, beard; face matting setting: face, single inch photo;three snapshot methods: real-time snapshot, optimization snapshot, quality priority; face angle filter; optimization time setting			
Perimeter Protection		Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection			
People Counting		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. Support queue management, and 4 rules configuration. Count number of people or stay time and link alarm			

General Intelligence

General Intelligence				
Event Trigger	Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly			
General Intelligence	Object Abandoned/Missing			
Heat Map	Yes			
Video				
Compression	H.265,H.264,H.264B,H.264H, MJPEG (only supported by sub stream)			
Smart Codec	Smart H.265+/ Smart H.264+			
Streaming Capability	3 Streams			
Resolution	2592 × 1944/2688 × 1520/2560 × 1440/2304 × 1296/1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/CIF (352 × 288/352 × 240)			
Frame Rate	Main Stream: 2592 × 1944 (1 fps–20 fps) 2560 × 1440 (1 fps–25/30 fps) 1920 × 1080 (1 fps–55/60 fps)			
	Sub Stream: D1 (1 fps–20/30 fps) D1 (1 fps–50 fps)			
	Third Stream: 1080P (1 fps–17 fps)			
Bit Rate Control	CBR/VBR			
Bit Rate	H.264: 32 Kbps–8192 Kbps H.265: 19 Kbps–8192 Kbps			
Day/Night	Auto(ICR)/Color/B/W			
BLC Mode	BLC/HLC/WDR (120 dB)			
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual			
Gain Control	Auto/Manual			
Noise Reduction	3D DNR			
Motion Detection	Off/On (4 Zone, Rectangle)			
Region of Interest	Off/On (4 Zone)			
Electronic Image Stabilization (EIS)	Yes			
Smart Illumination	Yes			
Defog	Yes			
Flip	0°/90°/180°/270°			
Mirror	Off/On			
Privacy Masking	Off/On (4 Area, Rectangle)			
Audio				
Audio Compression	G.711a, G.711Mu, G.726, AAC, G.723			
Alarm				
Alarm Event	No SD card;SD card full;SD card error;network disconnection;IP conflict;illegal access;motion detection;video tampering;Defocus Detection;scene changing;intrusion;tripwire;aban doned object;missing object;fast moving;parking detection;loitering detection;people gathering;audio detection;people counting;face detection;People counting in area;Stay alarm;People No. exception detection;Queue Management			
Network				
Network	RJ-45 (10/100 Base-T)			

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SDK and API	Yes			
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;PPPoE;802.1x;SNMP			
Interoperability	ONVIF (Profile S/Profile G/Profile T), CGI, Milstone, Genetec, P2P			
User/Host	20 Users			
Storage	NAS;FTP;SFTP;Dahua Cloud;Micro SD card 256 GB			
Browser	IE (versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12)			
Management Software	Smart PSS, DSS, DMSS			
Mobile Phone	iOS, Android			
Certifications				
Certifications	CE-LVD: EN62368-1 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			
Interface				
Audio Interface	1/1 channel In/Out			
Alarm	1 channel In: 5mA 5V DC 1 channel Out: 300mA 12V DC			
Electrical				
Power Supply	DC 12V (±30%), AC 24V (±30%), PoE (802.3af)			
Power Consumption	<12.4W			
Environmental				
Operating Conditions	-30° C to +60° C (-22° F to +140° F)/Less than 95% RH			
Storage Conditions	-40° C to +60° C (-40° F to +140° F)			
Protection Grade	IP67,IK10			
Construction				
Casing	Metal			
Dimensions	Φ159.0 mm × 117.9 mm (6.26" × 4.64")			
Net Weight	0.95 kg (2.09 lb)			
Gross Weight	1.20 kg (2.65 lb)			

Ordering Information

Туре	Part Number	Description	
5MP camera	DH-IPC- HDBW5541EP-ZE	5MP IR Vari-focal Dome WizMind Network Camera, PAL	
	DH-IPC- HDBW5541EN-ZE	5MP IR Vari-focal Dome WizMind Network Camera, NTSC	
	IPC-HDBW5541EP- ZE	5MP IR Vari-focal Dome WizMind Network Camera, PAL	
	IPC-HDBW5541EN- ZE	5MP IR Vari-focal Dome WizMind Network Camera, NTSC	

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Accessories (optional)	PFA138	Junction Box
	PFB210W	Wall mount
	PFB300C	Ceiling mount
	PFA152-E	Pole mount
	PFA101	Mount adapter
	PFB201C	In-ceiling mount

Accessories

PFB210W

Wall mount

Optional:



PFA138

Juntion Box

PFA152-E

Pole mount





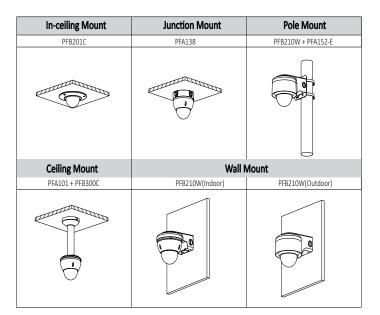
PFB201C LR1002 In-ceiling mount ePoE Over Coax Converter





PFB300C Ceiling mount

PFA101 Mount adapter



Dimensions (mm[inch])

