

DH-IPC-HDBW5541E-Z5E

5MP IR Vari-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. The series camera supports dust-proof 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)
- \cdot WDR (120 dB), Day/Night (ICR), 3D NR, AWB, AGC, BLC
- \cdot Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- \cdot 7 mm–35 mm motorized lens
- \cdot 1/1 Alarm in/out, 1/1 audio in/out
- \cdot Max. IR LEDs Length 80 m
- · Micro SD memory, IP67, IK10
- · SMD Plus



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'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 camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading 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.

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Technical Specification

Camera					
Image Sensor		1/2.7" 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		0.003 lux@F1.3 (Color, 30I RE) 0.0003 lux@F1.3 (B/W, 30I RE) 0 lux (Illuminator on)			
Illumination Distance		Distance up to 80 m (262 ft)			
Illuminator On/Off Control		Auto/Manual			
Illuminator Number		3(IR LED)			
Lens					
Lens Type		Motorized vari-focal			
Mount Type		Board-in			
Focal Length		7 mm–35 mm			
Max. Aperture		F1.3 (Constant)			
Angle of View		H: 31°–9°, V: 23°–7° (2592 × 1944) H: 32°–9°, V: 18°–5° (2688 × 1520)			
Aperture Type		Auto			
Close Focus Distance		0.4 m-2.0 m (1.31 ft-6.56 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	W	190 m (623 ft)	76 m (249 ft)	38 m (125 ft)	19 m (62 ft)
	Т	620 m (2034 ft)	248 m (814 ft)	124 m (407 ft)	62 m (203 ft)
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Pan/Tilt/Rotation

Pan/Tilt/Rotation Range

Professional, intelligent

Pan: 0°–355°; Tilt: 0°–65°; Rotation: 0°–355°

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

Smart Event IVS Object Abandoned/Missing Heat Map Yes Video H.265, H.264, H.264B, H.264H, Compression MJPEG (only supported by sub stream) Smart Codec Smart H.265+/ Smart H.264+ Streaming Capability 3 Streams 2592 × 1944/2688 × 1520/2560 × 1440/2304 × 1296/1080P (1920 × 1080)/1.3M (1280 × 960)/720P Resolution (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/CIF (352 × 288/352 × 240) Main Stream: 2592 × 1944 (1 fps-20 fps) 2560 × 1440 (1 fps-25/30 fps) 1920 × 1080 (1 fps-50/60 fps) Frame Rate 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 H.264: 32 Kbps-8192 Kbps Bit Rate H.265: 19 Kbps-8192 Kbps Day/Night Auto (ICR)/Color/B/W BLC Mode BLC/HLC/WDR (120 dB) Scene Self-adaptation (SSA) Yes White Balance Auto/Natural/Street Lamp/Outdoor/Manual Gain Control Auto/Manual Noise Reduction 3D NR Motion Detection OFF/ON (4 areas, rectangular) Region of Interest Yes (4 areas) Electronic Image Stabilization Yes (EIS) Smart Illumination Yes Defog Yes Flip 0°/90°/180°/270° Mirror Yes Privacy Masking 8 areas Audio G.711a, G.711Mu, G.726, G.723 Audio Compression Alarm 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 Alarm Event 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 RJ-45 (10/100 Base-T) Network

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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			
Protocol	IPv4; IPv6; HTTP;TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP; Bonjour			
Interoperability	ONVIF (Profile S/Profile G/Profile T), CGI, Milstone, Genetec, P2P			
User/Host	20 Users			
Storage	NAS; FTP; SFTP; 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)/ePoE			
Power Consumption	Basic power consumption: 4.9W (12V DC); 5.1W (24V AC); 5.2W (PoE) Max. power consumption (max. stream + intelligent function + IR LED + focus): 12.4W (12V DC); 11.9W (24V AC); 11.6W (PoE)			
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 DH-IPC-5MP IR Vari-focal Dome WizMind Network HDBW5541EP-Z5E Camera, PAL DH-IPC-5MP IR Vari-focal Dome WizMind Network HDBW5541EN-Z5E Camera, NTSC 5MP camera 5MP IR Vari-focal Dome WizMind Network IPC-HDBW5541EP-Z5E Camera, PAL IPC-HDBW5541EN-5MP IR Vari-focal Dome WizMind Network Z5E Camera, NTSC PFA138 Junction Box PFB211W Wall mount PFB300C Ceiling mount Accessories (optional) PFA152-E Pole mount PFA101 Mount adapter PFB201C In-ceiling mount

Accessories

Optional:

Wall mount



Juntion Box

PFA152-E

Pole mount





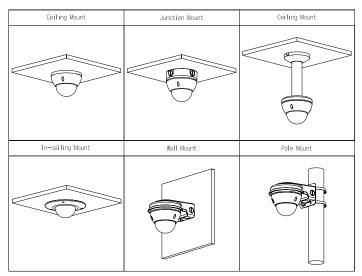
PFB201C LR1002 In-ceiling mount ePoE Over Coax Converter







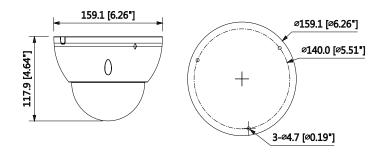
PFA101 Mount adapter



www.dahuasecurity.com

Wiz Mind | DH-IPC-HDBW5541E-Z5E

Dimensions (mm[inch])



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