

DH-IPC-HDBW5442E-Z4E

4MP 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.

- · 1/1.8" 4Megapixel progressive scan CMOS
- · ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- · 25/30 fps@2688 × 1520, 50/60 fps@1080P (1920 × 1080)
- · WDR (140 dB), Day/Night (ICR), 3D NR, AWB, AGC, BLC
- \cdot Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- · 8 mm–32 mm motorized lens
- \cdot 1/1 Alarm in/out, 1/1 audio in/out
- · 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

Camera					
Image Sensor		1/1.8" CMOS			
Max. Resolution		2688 (H) x 1520 (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		0.002 Lux@F1.6(Color,30IRE) 0.0002 Lux@F1.6(B/W,30IRE) 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		8 mm-32 mm			
Max. Aperture		F1.6 (Constant)			
Angle of View		H: 43°–15°, V:23°–8°			
Aperture Type		Auto			
Close Focus Distance		2.5 m–6.0 m (8.20 ft–19.69 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	151 m (495 ft)	60.7 m (199 ft)	30.3 m (99 ft)	15.1 m (49 ft)
	т	400 m (1312ft)	160 m (525 ft)	80 m (262 ft)	40 m (131 ft)
Pan/Tilt/Rotation					

Pan/Tilt/Rotation Range

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

Professional, intelligent

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 Object Abandoned/Missing IVS 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 2688 × 1520/2560 × 1440/2304 × 1296/1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 × Resolution 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/CIF (352 × 288/352 × 240) Main Stream: 2688 × 1520 (1 fps-25/30 fps) Sub Stream: D1 (1 fps-25/30 fps) D1 (1 fps-50/60 fps) Frame Rate Third Stream: 1080P (1 fps-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. 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 (140 dB) Scene Self-adaptation (SSA) Yes Auto/Natural/Street Lamp/Outdoor/Manual White Balance 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 Off / On (8 areas, Rectangle) Audio Audio Compression G.711a, G.711Mu, G.726, G.723 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 doned object; missing object; fast moving; parking Alarm Event detection;loitering detection;people gathering; audio detection; people counting; face detection;voltage detection;People counting in area;Stay alarm;People No. exception detection;Queue Management Network RJ-45 (10/100Base-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 + 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			
4MP camera	DH-IPC- HDBW5442EP-Z4E	4MP IR Vari-focal Dome WizMind Network Camera,PAL			
	DH-IPC- HDBW5442EN-Z4E	4MP IR Vari-focal Dome WizMind Network Camera, NTSC			
	IPC-HDBW5442EP- Z4E	4MP IR Vari-focal Dome WizMind Network Camera,PAL			
	IPC-HDBW5442EN- Z4E	4MP IR Vari-focal Dome WizMind Network Camera, NTSC			
Accessories (optional)	PFA138	Junction Box			
	PFB211W	Wall mount			
	PFB300C	Ceiling mount			
	PFA152-E	Pole mount			
	PFA101	Mount adapter			
	PFB201C	In-ceiling mount			

Accessories

Optional:



PFA138

Junction Mount



PFB211W

Wall Mount

PFA152-E

Pole Mount

PFB300C Ceiling Mount



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PFA101 Mount Adapter

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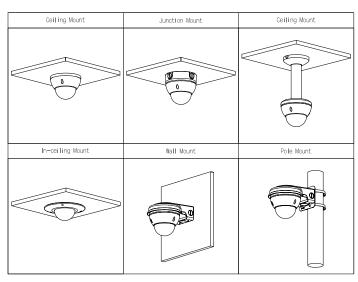
LR1002

ePoE Over Coax Converter



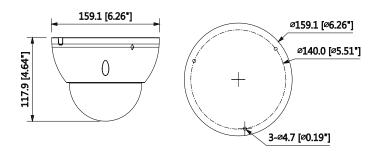
PFB201C





www.dahuasecurity.com

Dimensions (mm[inch])



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