

# DH-IPC-HDBW5442E-ZE

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.

- $\cdot$  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 DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- · 2.7 mm–12.0 mm motorized lens
- · 1/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 40 m
- · 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. This technology, designed by adopts advanced 2D-PAM3 coding modulation from physical layer, and realizes full duplex transmission over 800 meters at the speed of 10Mbps, or 300 meters at the speed of 100Mbps via Cat 5 LAN Cable or coaxial cable media, without repeater.

### 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

Califera					
Image Sensor		1/1.8" 4Megapixel progressive scan CMOS			
Effective Pixels		2688 (H) × 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		0.003 Lux@F1.8 (Color, 30IRE) 0.0003 Lux@F1.8 (B/W, 30IRE)0 Lux (Illuminator on)			
Illumination Distance		Distance up to 40 m (131 ft)			
Illuminator On/Off Control		Auto/Manual			
Illuminator Number		3 (IR LED)			
Lens					
Lens Type		Motorized vari-focal			
Mount Type		Board-in			
Focal Length		2.7 mm-12.0 mm			
Max. Aperture		F1.8			
Angle of View		H: 114°–47°, V: 62°–26°			
Aperture Type		Auto			
Close Focus Distance		1.2 m (3.94 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	58m(190ft)	23m(75ft)	12m(39ft)	6m(20ft)
	т	131m(430ft)	52m(171ft)	26m(85ft)	13m(43ft)
Pan/Tilt/Rotation					
Pan/Tilt/Rotation Range		Pan: 0°–355°; Tilt: 0°–65°; Rotation: 0°–355°			

Artificial Intelligence

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; abnormal motion [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	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: 2688 × 1520 (1 fps–25/30 fps) 2560 × 1440 (1 fps–25/30 fps) 1920 × 1080 (1 fps–50/60 fps)		
	Sub Stream: D1 (1 fps-25/30 fps) D1 (1 fps-50/60 fps)		
	Third Stream: 1080P (1 fps-16 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 (140 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		

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#### Network RJ-45 (10/100 Base-T) Network SDK and API Yes IPv4;IPv6;HTTP;HTTPS;TCP;UDP;ARP;RTP;RTSP;RTCP Protocol ;RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS;QoS;UPnP ;NTP;Multicast;ICMP;IGMP;NFS; IEEE802.1x;SNMP ONVIF (Profile S/Profile G/Profile T), CGI, Milstone, Interoperability Genetec, P2P 20 Users User/Host Storage NAS;FTP;SFTP;Dahua Cloud;Micro SD card 256 GB IE (versions newer than IE8), Chrome, Browser Firefox, Safari (versions newer than Safari 12) Management Software Smart PSS, DSS, DMSS Mobile Phone iOS, Android Certifications CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive Certifications 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 1 channel In: 5mA 5V DC Alarm 1 channel Out: 300mA 12V DC Electrical Power Supply DC 12V (±30%), AC 24V (±30%), PoE (IEEE802.3af) <12.4W Power Consumption Environmental -30° C to +60° C (-22° F to +140° F)/Less than 95% RH **Operating Conditions** Storage Conditions -40° C to +60° C (-40° F to +140° F) Protection Grade IP67,IK10 Construction Metal Casing Ф159.0 mm × 117.9 mm (6.26" × 4.64") Dimensions 0.95 kg (2.09 lb) Net Weight Gross Weight 1.20 kg (2.65 lb)

Ordering Information					
Туре	Part Number	Description			
4MP camera	DH-IPC- HDBW5442EP-ZE	4MP IR Vari-focal Dome WizMind Network Camera, PAL			
	DH-IPC- HDBW5442EN-ZE	4MP IR Vari-focal Dome WizMind Network Camera, NTSC			
	IPC-HDBW5442EP- ZE	4MP IR Vari-focal Dome WizMind Network Camera, PAL			
	IPC-HDBW5442EN- ZE	4MP 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

## **Optional:**







#### LR1002 PFB201C In-ceiling mount ePoE Over Coax Converter



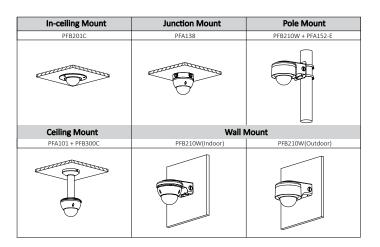
Juntion Box

PFA152-F



PEB300C Ceiling mount Pole mount

PFA101 Mount adapter



## Dimensions (mm[inch])

