

DH-IPC-HDBW5242E-ZE-MF

2MP 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 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" 2Megapixel progressive scan CMOS
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- · 50/60 fps@1080P (1920 × 1080)
- · WDR (140 dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC
- \cdot Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- · 2.7 mm–12.0 mm motorized lens
- \cdot 1/1 Alarm in/out, 1/1 audio in/out
- · 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. 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 ±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" 2Megapixel progressive scan CMOS			
Max. Resolution		1920 (H) × 1080 (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		Color : 0.003Lux@F1.8 Black&White : 0.002Lux@F1.8 , 0Lux@F1.8 (IR 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	41.0m (134.5ft)	16.4m (53.8ft)	8.2m (26.9ft)	4.1m (13.5ft)
	т	93.4m (306.4ft)	37.3m (122.4ft)	18.6m (61.0ft)	9.3m (30.5ft)

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	

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	1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/ CIF (352 × 288/352 × 240)		
	Main Stream:1920 × 1080 (1 fps-50/60 fps)		
Frame Rate	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		
Network			
Network	RJ-45 (10/100 Base-T)		
SDK and API	Yes		

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Protocol	IPv4;IPv6;HTTP;HTTP5;TCP;UDP;ARP;RTP;RTSP;RTCP; RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS;UPnP;NTP; Multicast;ICMP;IGMP;NFS;PPPoE;IEEE802.1x;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 (support max. 256 G)			
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 (IEEE802.3af)			
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)			

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

Accessories

Optional:







PFB201C LR1002 In-ceiling mount ePoE Over Coax Converter



Juntion Box

PFA152-E

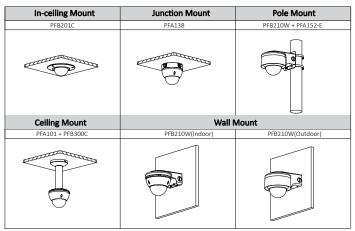
Pole mount

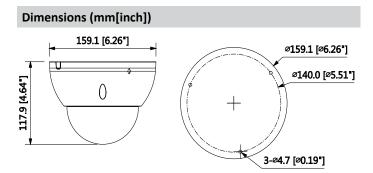


PFB300C Ceiling mount

Wall mount

PFA101 Mount adapter





Ordering Information

Туре	Part Number	Description
2MP camera	DH-IPC- HDBW5242EP- ZE-MF	2MP IR Vari-focal Dome WizMind Network Camera, PAL
	DH-IPC- HDBW5242EN- ZE-MF	2MP IR Vari-focal Dome WizMind Network Camera, NTSC
	IPC-HDBW5242EP- ZE-MF	2MP IR Vari-focal Dome WizMind Network Camera, PAL
	IPC-HDBW5242EN- ZE-MF	2MP IR Vari-focal Dome WizMind Network Camera, NTSC

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