

DH-IPC-HDBW5442E-ZHE

4MP 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 heard

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 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, PoE+, Heater













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.



Technical Specification							General Intelligence	
Camera							Event Trigger	Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly
Image Sensor		1/1.8" 4Megapixel progressive scan CMOS						
Max. Resolution		2688 (H) × 1520 (V)					General Intelligence	Object Abandoned/Missing
RAM/ROM		1 GB/128 MB					Heat Map	Yes
Scanning System		Progressive					Video	
Electronic Shutter Speed		Auto/Manual, 1/3 s-1/100000 s					Compression	H.265,H.264,H.264B,H.264H, MJPEG (only supported by sub stream)
S/N Ratio		> 56 dB					Smart Codec	Smart H.265+/ Smart H.264+
Minimum Illumination		0.003 Lux@F1.8					Streaming Capability	3 Streams
Illumination Distance		Distance up to 40 m (131 ft)					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)
Illuminator On/Off Control		Auto/Manual						
Illuminator Number Lens		S(IIV LLD)	3(IR LED)				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)
Lens Type		Motorized vari-focal Board-in						Sub Stream: D1 (1 fps-25/30 fps) D1 (1 fps-50/60 fps)
Mount Type								Third Stream: 1080P (1 fps–16 fps)
Focal Length		2.7 mm-12.0 mm					Bit Rate Control	CBR/VBR
Max. Aperture Angle of View		F1.8 H: 114°-47°, V: 62°-26°					Bit Rate	H.264: 32 Kbps-8192 Kbps H.265: 19 Kbps-8192 Kbps
Aperture Type		Auto					Day/Night	Auto(ICR)/Color/B/W
Close Focus Distance		1.2 m (3.94 ft)					BLC Mode	BLC/HLC/WDR (140 dB)
	Lens	Detect	Observe	Recognize	Identify		White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
DORI Distance	W	58m(190ft)	23m(75ft)	12m(39ft)	6m(20ft)		Gain Control	Auto/Manual
	Т	131m(430ft)	52m(171ft)	26m(85ft)	13m(43ft)		Noise Reduction	3D DNR
Pan/Tilt/Rota	Pan/Tilt/Rotation						Motion Detection	Off/On (4 Zone, Rectangle)
Pan/Tillt/Rotation Range Pan: 0°–355°; Tilt: 0°–65°; Rotation: 0°–355°				Region of Interest	Off/On (4 Zone)			
Artificial Intelligence				Electronic Image Stabilization (EIS)	Yes			
		Face detection; track; optimization; snapshot; report high quality picture; face enhancement; face				Smart Illumination	Yes	
			exposure; face attribute extract, 6 attributes and 8 expressions: Gender, age, glasses, expressions				Defog	Yes
Face Detection		(anger, calm,	(anger, calm, happiness, sadness, disgust, surprise, confusion and fear), mask, beard; face matting				Flip	0°/90°/180°/270°
		setting: face, single inch photo; three snapshot methods: real-time snapshot, optimization snapshot, quality priority; face angle filter; optimization time setting					Mirror	Off/On
							Privacy Masking	Off/On (4 Area, Rectangle)
		Tripwire; intrusion; fast moving (the three functions					Audio	
Perimeter Protection		support the classification and accurate detection of vehicle and human); loitering detection; people				Audio Compression	G.711a, G.711Mu, G.726, AAC, G.723	
gathering; pa		; parking detection				Alarm		
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					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

Ordering Information						
Туре	Part Number	Description				
4MP camera	DH-IPC- HDBW5442EP-ZHE	4MP IR Vari-focal Dome WizMind Network Camera, PAL				
4IVIF Calliela	IPC-HDBW5442EP- ZHE	4MP IR Vari-focal Dome WizMind Network Camera, PAL				

1.20 kg (2.65 lb)

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

Accessories

Optional:





Ceiling mount





Mount adapter

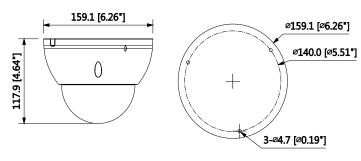
PFA152-E

Pole mount

PFA101

In-ceiling Mount	Junction Mount	Pole Mount		
PFB201C	PFA138	PFB210W + PFA152-E		
	·			
Ceiling Mount	Wall Mount			
PFA101 + PFB300C	PFB210W(Indoor)	PFB210W(Outdoor)		

Dimensions (mm[inch])



Rev 001.001

Gross Weight

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