

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		
Image Sensor	1/1.8" 4Megapixel progressive scan CMOS					30	Access, Storage anomaly		
Max. Resolution		2688 (H) × 1520 (V)					General Intelligence	Object Abandoned/Missing	
RAM/ROM		1 GB/128 MB					Heat Map	Yes	
Scanning System		Progressive	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 Numl	per	S(IK LED)	3(IR LED)					Main Stream: 2688 × 1520 (1 fps–25/30 fps)	
Lens							Frame Rate	2560 × 1440 (1 fps–25/30 fps) 1920 × 1080 (1 fps–50/60 fps)	
Lens Type Mount Type		Motorized vari-focal Board-in						Sub Stream: D1 (1 fps-25/30 fps) D1 (1 fps-50/60 fps)	
Focal Length		2.7 mm-12.0 mm						Third Stream: 1080P (1 fps–16 fps)	
Max. Aperture		F1.8					Bit Rate Control	CBR/VBR	
Angle of View		H: 114°-47°, V: 62°-26°					Bit Rate	H.264: 32 Kbps-8192 Kbps H.265: 19 Kbps-8192 Kbps	
Aperture Type	Aperture Type		Auto				Day/Night	Auto(ICR)/Color/B/W	
Close Focus Dista	ance	1.2 m (3.94 f	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/Rotat	Pan/Tilt/Rotation					Motion Detection	Off/On (4 Zone, Rectangle)		
Pan/Tilt/Rotation	Pan/Tilt/Rotation Range Pan: 0*-355*; Tilt: 0*-65*; Rotation: 0*-355*			55°		Region of Interest	Off/On (4 Zone)		
Artificial Intell	igence						Electronic Image Stabilization (EIS)	Yes	
		Face detection; track; optimization; snapshot; report high quality picture; face enhancement; face				Smart Illumination	Yes		
	Face Detection		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				Defog	Yes	
Face Detection							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		of vehicle an	support the classification and accurate detection of vehicle and human); loitering detection; people				Audio Compression	G.711a, G.711Mu, G.726, AAC, G.723	
ga		gathering; pa	gathering; 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		

Network			
Network	RJ-45 (10/100 Base-T)		
SDK and API	Yes		
Protocol	IPv4;IPv6;HTTP;HTTPs;TCP;UDP;ARP;RTP;RTSP;RTCP;RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS;QoS;UPnP;NTP;Multicast;ICMP;IGMP;NFS;PPPoE;802.1x;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 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			
Interface Audio Interface	1/1 channel In/Out		
	1/1 channel In/Out 1 channel In: 5mA 5V DC 1 channel Out: 300mA 12V DC		
Audio Interface	1 channel In: 5mA 5V DC		
Audio Interface Alarm	1 channel In: 5mA 5V DC		
Audio Interface Alarm Electrical	1 channel In: 5mA 5V DC 1 channel Out: 300mA 12V DC		
Audio Interface Alarm Electrical Power Supply	1 channel In: 5mA 5V DC 1 channel Out: 300mA 12V DC DC 12V (±30%), AC 24V (±30%), PoE+ (802.3at)		
Audio Interface Alarm Electrical Power Supply Power Consumption	1 channel In: 5mA 5V DC 1 channel Out: 300mA 12V DC DC 12V (±30%), AC 24V (±30%), PoE+ (802.3at)		
Audio Interface Alarm Electrical Power Supply Power Consumption Environmental	1 channel In: 5mA 5V DC 1 channel Out: 300mA 12V DC DC 12V (±30%), AC 24V (±30%), PoE+ (802.3at) <18.7W -40° C to +60° C (-40° F to +140° F) /Less than 95%		
Audio Interface Alarm Electrical Power Supply Power Consumption Environmental Operating Conditions	1 channel In: 5mA 5V DC 1 channel Out: 300mA 12V DC DC 12V (±30%), AC 24V (±30%), PoE+ (802.3at) <18.7W -40° C to +60° C (-40° F to +140° F) /Less than 95% RH		
Audio Interface Alarm Electrical Power Supply Power Consumption Environmental Operating Conditions Storage Conditions	1 channel In: 5mA 5V DC 1 channel Out: 300mA 12V DC DC 12V (±30%), AC 24V (±30%), PoE+ (802.3at) <18.7W -40° C to +60° C (-40° F to +140° F) /Less than 95% RH -40° C to +60° C (-40° F to +140° F)		
Audio Interface Alarm Electrical Power Supply Power Consumption Environmental Operating Conditions Storage Conditions Protection Grade	1 channel In: 5mA 5V DC 1 channel Out: 300mA 12V DC DC 12V (±30%), AC 24V (±30%), PoE+ (802.3at) <18.7W -40° C to +60° C (-40° F to +140° F) /Less than 95% RH -40° C to +60° C (-40° F to +140° F)		
Audio Interface Alarm Electrical Power Supply Power Consumption Environmental Operating Conditions Storage Conditions Protection Grade Construction	1 channel In: 5mA 5V DC 1 channel Out: 300mA 12V DC DC 12V (±30%), AC 24V (±30%), PoE+ (802.3at) <18.7W -40° C to +60° C (-40° F to +140° F) /Less than 95% RH -40° C to +60° C (-40° F to +140° F)		

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

1.20 kg (2.65 lb)

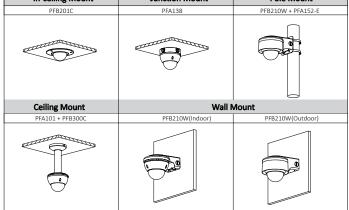
	DEA120	lunation Day
	PFA138	Junction Box
	PFB210W	Wall mount
Accessories	PFB300C	Ceiling mount
(optional)	PFA152-E	Pole mount
	PFA101	Mount adapter
	PFB201C	In-ceiling mount

Accessories

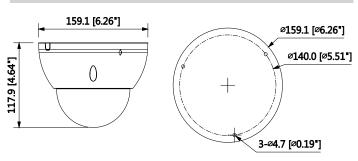
Optional:



PFB300C Ceiling mount	PFA152-i Pole moun			
In-ceiling Mo	ount	Junction Mount	Pole Mou	
PFB201C		PFA138	PFB210W + PFA1	
9				



Dimensions (mm[inch])



 $\mathbb O$ 2020 Dahua . All rights reserved. Design and specifications are subject to change without notice. Pictures in the document are for reference only, and the actual product shall prevail. Rev 001.001

Gross Weight