

DH-IPC-HDBW5442E-ZE

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 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 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.

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							
Effective Pixels	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 Illumin	ation	0.003 Lux@F1.8				Streaming Capability	3 Streams	
Illumination Dista	ince	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/O		Auto/Manual						
Illuminator Number 3 (IR LED) Lens					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	Lens Type		Motorized vari-focal				Frame Rate	Sub Stream: D1 (1 fps-25/30 fps) D1 (1 fps-50/60 fps)
Mount Type		Board-in					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 Dista	nce	1.2 m (3.94 ft	t)				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/Rotati	ion						Motion Detection	Off/On (4 Zone, Rectangle)
Pan/Tilt/Rotation	Range	Pan: 0°-355°;	Tilt: 0°–65°; F	Rotation: 0°–3	55°		Region of Interest	Off/On (4 Zone)
Artificial Intelli	gence						Electronic Image Stabilization (EIS)	Yes
		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				Smart Illumination	Yes	
						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		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; 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;PPP0E;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

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)
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)

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

Ceiling mount

Pole mount

Optional:



Mount adapter

In-ceiling Mount	Junction Mount	Pole Mount	
PFB201C	PFA138	PFB210W + PFA152-E	
6			
Ceiling Mount	Wall Mount		
PFA101 + PFB300C	PFB210W(Indoor)	PFB210W(Outdoor)	

Dimensions (mm[inch])

