

# DH-IPC-HDBW5442E-Z4E

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
- · 8 mm-32 mm motorized lens
- · 1/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 80 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			
Image Sensor 1/1.8" 4Megapixel progressive scan CMOS				Event mase.	conflict, Illegal Access,Storage anomaly			
Max. Resolution 2688 (H) x 1520 (V)				General Intelligence	Object Abandoned/Missing			
RAM/ROM		1 GB/128 MB				Heat Map	Yes	
Scanning Syster	m	Progressive					Video	
Electronic Shut	ter 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 Illumi	ination	0.002 Lux@F	1.6				Streaming Capability	3 Streams
Illumination Dis	tance	Distance up t	o 80 m (262 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 Nun	nber	3(IR LED)						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			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		8 mm-32 mn	ı				Bit Rate Control	CBR/VBR
Max. Aperture	Max. Aperture		F1.6( Constant F1.6 throughout the zoom range)				Bit Rate	H.264: 32 Kbps-8192 Kbps H.265: 19 Kbps-8192 Kbps
Angle of View		H: 43°–15°, V:23°–8°				Day/Night	Auto (ICR) / Color / B/W	
Aperture Type		Auto (HALL)				BLC Mode	BLC / HLC / WDR (140 dB)	
Close Focus Dis	tance	2.5 m-6.0 m	(8.20 ft–19.69	ft)			White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
	Lens	Detect	Observe	Recognize	Identify		Gain Control	Auto/Manual
DORI Distance	W	151m(495ft)	60.7m(199ft)	30.3m(99ft)	15.1m(49ft)		Noise Reduction	3D DNR
	Т	400m(1312ft)	160m(525ft)	80m(262ft)	40m(131ft)		Motion Detection	Off / On (4 Zone, Rectangle)
Pan/Tilt/Rota	ntion						Region of Interest	Off / On (4 Zone)
Pan/Tilt/Rotation	on Range	Pan:0°-355°; Tilt:0°-65°; Rotation:0°-355°			Electronic Image Stabilization (EIS)	Yes		
Artificial Inte	lligence						Smart Illumination	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 setting; face, single inch photo;				Defog	Yes	
						Flip	0°/90°/180°/270°	
Face Detection						Mirror	Off / On	
		three snapshot methods: real-time snapshot, optimization snapshot, quality priority; face angle filter;			Privacy Masking	Off / On (4 Area, Rectangle)		
		optimization time setting				Audio		
		Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection			Audio Compression	G.711a, G.711Mu, AAC, G.726, G.723		
Perimeter Protection					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;voltage detection;People counting in area;Stay alarm;People No. exception detection;Queue Management		

## Network

Network	RJ-45 (10/100Base-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;NF5;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

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-Z4E	4MP IR Vari-focal Dome WizMind Network Camera,PAL		
48.40	DH-IPC- HDBW5442EN-Z4E	4MP IR Vari-focal Dome WizMind Network Camera, NTSC		
4MP camera	IPC-HDBW5442EP- Z4E	4MP IR Vari-focal Dome WizMind Network Camera,PAL		
	IPC-HDBW5442EN- Z4E	4MP IR Vari-focal Dome WizMind Network Camera, NTSC		

Rev 001.001

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

# **Accessories**

# **Optional:**







PFB210W Wall mount

PFA138 Juntion Box

PFB201C

LR1002 In-ceiling mount ePoE Over Coax Converter







PFB300C Ceiling mount

PFA152-E Pole mount

PFA101 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])



