



# DH-IPC-HDBW5442E-ZHE-ATC

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 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.

- · 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
- · Anti-corrosion Coating













## **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 ±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 Numb	er	3(IR LED)						Main Stream: 2688 × 1520 (1 fps–25/30 fps)
Lens								2560 × 1440 (1 fps–25/30 fps) 1920 × 1080 (1 fps–50/60 fps)
Lens Type  Mount Type		Motorized vari-focal  Board-in					Frame Rate	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		Auto					Day/Night	Auto(ICR)/Color/B/W
Close Focus Dista	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/Rotati	ion						Motion Detection	Off/On (4 Zone, Rectangle)
Pan/Tilt/Rotation	Pan/Tilt/Rotation Range Pan: 0*-355*; Tilt: 0*-65*; Rotation: 0*-355*				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					Smart Illumination	Yes
			exposure; face attribute extract, 6 attributes and 8 expressions: Gender, age, glasses, expressions				Defog	Yes
Face Detection			(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; ir			wire; 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;lotering 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;SNMF			
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+ (802.3at)			
Power Consumption	<18.7W			
Environmental				
Operating Conditions	-40° C to +60° C (-40° 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")			

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

0.95 kg (2.09 lb)

1.20 kg (2.65 lb)

	PFA138A	Junction Box(Anti-corrosion)	
	PFB211WA	Wall mount(Anti-corrosion)	
Accessories	PFB300CA	Ceiling mount(Anti-corrosion)	
(optional)	PFA152A-E	Pole mount(Anti-corrosion)	
	PFA101A	Mount adapter (Anti-corrosion)	
	PFB201C	In-ceiling mount	

# Accessories

# **Optional:**









PFB211WA Wall mount

PFA138A Juntion Box

PFB201C In-ceiling mount

LR1002 ePoE Over Coax Converter







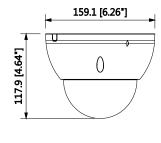
PFB300CA Ceiling mount

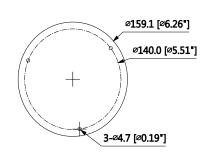
PFA152A-E Pole mount

PFA101A Mount adapter

In-ceiling Mount	Junction Mount	Pole Mount	
PFB201C	PFA138A	PFB211WA + PFA152A-E	
Ceiling Mount	Wall Mount		
PFA101A + PFB300CA	PFB211WA		

# Dimensions (mm[inch])





Rev 001.001

Net Weight

Gross Weight

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