



# DH-IPC-HDBW5242E-ZE-MF

2MP 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" 2Megapixel progressive scan CMOS
- · ROI, SVC, SMART H.264 +/H.265+, AI H.264/H.265, flexible coding, applicable to various bandwidth and storage environments
- · 50/60 fps@1080P (1920 × 1080)
- · WDR (140 dB), Day/Night (ICR), 3D NR, 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
- · SMD 3.0













#### **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's innovative ePoE technology offers a new solution to transmit power and data over long distances between cameras and network switch, allowing more flexible design of surveillance system, improving reliability, reducing installation time and saving money. ePoE technology encompasses pure network systems where a single CAT6 cable can carry signals up to 300 m (984 ft) at 100 Mbps, 800 m (2625 ft) at 10 Mbps.

#### **Cyber Security**

Dahua network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading the device.

## 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								Support the counting of enter number, leave
Camera							People Counting	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
Image Sensor		1/1.8" CMOS						
Max. Resolution		1920 (H) × 1080 (V)						
RAM		1 GB						configuration. Count number of people or stay time and link alarm
ROM		128 MB					General Intelligence	
Scanning System		Progressive					Event Trigger	Motion detection, Video tampering , Scene changing Network disconnection , IP address conflict, Illegal Access, Storage anomaly
Electronic Shutter Speed		Auto/Manual, 1/3 s– 100,000 s						
S/N Ratio		> 56 dB					IVS	Abandoned object; missing object
		0.003 Lux@F1.8 (Color, 30IRE)					Heat Map	Yes
Minimum Illumination		0.0003 Lux@F1.8 (B/W, 30IRE) 0 Lux (Illuminator on)					Video	
Illumination Distance		40 m (131 ft)					Compression	H.265,H.264,H.264B,H.264H, MJPEG (only supported by the sub stream)
Illuminator On/Off Control		Auto/Manual					Smart Codec	Smart H.265+/ Smart H.264+
Illuminator Number		3 (IR LED)	3 (IR LED)				Streaming Capability	3 Streams
Lens Lens Type		Motorized vari-focal					Resolution	1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 ×720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/ CIF (352 × 288/352 × 240)
Mount Type		Board-in						Main Stream: 1920 × 1080 (1 fps–50/60 fps) Sub Stream: D1 (1 fps–25/30 fps) D1 (1 fps–50/60 fps) Third Stream: 1080P (1 fps–25/30 fps)
Focal Length		2.7 mm–12.0 mm					Frame Rate	
Max. Aperture		F1.8 Horizontal: 114°–47°,						*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.
Angle of View		Vertical: 62°–26°					Bit Rate Control	CBR/VBR
Aperture Type			Auto				Bit Rate	H.264: 32 Kbps-8192 Kbps
Close Focus Distance		1.2 m (3.94 ft)					Day/Night	H.265: 19 Kbps–8192 Kbps Auto(ICR)/Color/B/W
DORI Distance	Lens	Detect 41.0 m	Observe 16.4m	Recognize 8.2 m	Identify 4.1 m		BLC Mode	BLC/HLC/WDR (140 dB)
	W	(134.5 ft)	(53.8 ft)	(26.9 ft)	(13.5 ft)		White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
	Т	93.4 m (306.4 ft)	37.3 m (122.4 ft)	18.6 m (61.0 ft)	9.3 m (30.5 ft)		Gain Control	Auto/Manual
Pan/Tilt/Rotation						Noise Reduction	3D NR	
Pan/Tilt/Rotation	on Range	Pan: 0°-355°; Tilt: 0°-65°; Rotation: 0°-355°					Motion Detection	Off/On (4 areas, rectangular)
Artificial Intelligence							Region of Interest	Off/On (4 areas)
		Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face					Electronic Image Stabilization (EIS)	Yes
		enhancement; face exposure; face attribute extraction including 6 attributes (gender, age,					Smart Illumination	Yes
Face Detection		glasses, expressions, mask and beard) and 8 expressions (anger, calm, happiness, sadness,					Defog	Yes
		face snapsho	disgust, surprise, confusion and fear); mask; beard; face snapshot set as face or one-inch photo; 3 snapshot strategies (real-time snapshot, optimization snapshot and quality priority); face angle filter; optimization time setting				Flip	0°/90°/180°/270°
		snapshot and					Mirror	Off/On
		opaniization time setting					Privacy Masking	8 areas
Perimeter Prote	ction	support the	Tripwire; intrusion; fast moving (the three functions support the class ification and accurate detection				Audio	
			of vehicle and human); loitering detection; people gathering; parking detection				Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723

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				
Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade				
Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; SNMP				
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P				
User/Host	20 Users				
Storage	NAS; FTP; SFTP; Micro SD card (support max. 256 G)				
Browser	IE: IE8 and later Chrome Firefox				
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)/ePoE				
Power Consumption	Basic power consumption: 4.9W (12V DC); 5.1W (24V AC); 5.2W (PoE) Max. power consumption (max. stream + intelligent function + IR LED + focus): 12.4W (12V DC); 11.9W (24V AC); 11.6W (PoE)				
Environmental					
Operating Conditions	$-30^{\circ}$ 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

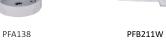
Casing	Metal
Dimensions	Φ159.0 mm × 117.9 mm (6.26" × 4.64")
Net Weight	0.95 kg (2.09 lb)
Gross Weight	1.20 kg (2.65 lb)

Ordering Information							
Туре	Part Number	Description					
	DH-IPC- HDBW5242EP- ZE-MF	2MP IR Vari-focal Dome WizMind Network Camera, PAL					
2MP camera	DH-IPC- HDBW5242EN- ZE-MF	2MP IR Vari-focal Dome WizMind Network Camera, NTSC					
	IPC-HDBW5242EP- ZE-MF	2MP IR Vari-focal Dome WizMind Network Camera, PAL					
	IPC-HDBW5242EN- ZE-MF	2MP IR Vari-focal Dome WizMind Network Camera, NTSC					
	PFA138	Junction Mount					
	PFB211W	Wall Mount					
	PFB300C	Ceiling Mount					
Accessories (optional)	PFA152-E	Pole Mount					
, , ,	PFA101	Mount Adapter					
	PFB201C	In-ceiling Mount					
	TF-P100	MicroSD Memory Card					

## **Accessories**

# Optional:











Junction Mount



Wall Mount



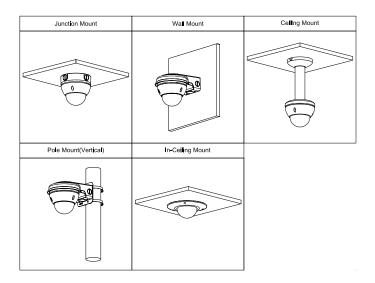
PFA152-E Pole Mount

PFA101 Mount Adapter

PFB201C In-ceiling Mount



TF-P100 MicroSD Memory Card



# Dimensions (mm[inch])

