



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, SMART 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 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 ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Technical Specification					Event Trigger	Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal	
Camera					Access,Storage anomaly		
Image Sensor	1/1.8" 2Megapixel progressive scan CMOS			General Intelligence	Object Abandoned/Missing		
Max. Resolution		1920 (H) × 1080 (V)			Heat Map	Yes	
RAM/ROM		1 GB/128 MB	,			Video	
Scanning System	า	Progressive				Compression	H.265,H.264,H.264B,H.264H, MJPEG (only supported by sub stream)
Electronic Shutt	er Speed	Auto/Manual, 1/3 s-1/100000 s			Smart Codec	Smart H.265+/ Smart H.264+	
S/N Ratio		>56 dB			Streaming Capability	3 Streams	
Minimum Illumi	nation	0.003Lux@F1	1.8			Resolution	1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/
Illumination Dist	tance	Distance up t	o 40 m (131 f	t)			CIF (352 × 288/352 × 240)
Illuminator On/0	Off Control	Auto/Manual	l				Main Stream:1920 × 1080 (1 fps–50/60 fps)
Illuminator Num	ber	3 (IR LED)				Frame Rate	Sub Stream: D1 (1 fps-25/30 fps) D1 (1 fps-50/60 fps)
Lens							Third Stream: 1080P (1 fps–16 fps)
Lens Type		Motorized va	ri-focal			Bit Rate Control	CBR/VBR
Mount Type		Board-in				Bit Rate	H.264: 32 Kbps-8192 Kbps H.265: 19 Kbps-8192 Kbps
Focal Length		2.7 mm-12.0 mm		Day/Night	Auto(ICR)/Color/B/W		
Max. Aperture	Max. Aperture		F1.8			BLC Mode	BLC/HLC/WDR (140 dB)
Angle of View		H: 114°-47°, V: 62°-26°			White Balance	Auto/Natural/Street Lamp/Outdoor/Manual	
Aperture Type		Auto		Gain Control	Auto/Manual		
Close Focus Dist	ance	1.2 m (3.94 ft)		Noise Reduction	3D DNR		
	Lens	Detect	Observe	Recognize	Identify	Motion Detection	Off/On (4 Zone, Rectangle)
DORI Distance	W	41.0m (134.5ft)	16.4m (53.8ft)	8.2m (26.9ft)	4.1m (13.5ft)	Region of Interest	Off/On (4 Zone)
	Т	93.4m (306.4ft)	37.3m (122.4ft)	18.6m (61.0ft)	9.3m (30.5ft)	Electronic Image Stabilization (EIS)	Yes
Pan/Tilt/Rota	tion					Smart Illumination	Yes
Pan/Tilt/Rotatio	n Range	Pan: 0°-355°;	Tilt: 0°-65°; I	Rotation: 0°–3!	55°	Defog	Yes
Artificial Intel	ligence					Flip	0°/90°/180°/270°
		Face detection; track; optimization; snapshot; report high quality picture; face enhancement; face			Mirror	Off/On	
			exposure; face attribute extract, 6 attributes and 8 expressions: Gender, age, glasses, expressions			Privacy Masking	Off/On (4 Area, Rectangle)
Face Detection		(anger, calm, happiness, sadness, disgust, surprise, confusion and fear), mask, beard; face matting			Audio		
		setting: face, single inch photo; three snapshot methods: real-time snapshot,			Audio Compression	G.711a, G.711Mu, G.726, AAC, G.723	
		optimization snapshot, quality priority; face angle filter; optimization time setting			Alarm		
Perimeter Protection		Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection				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	
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.			Alarm Event	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	
		Support queue management, and 4 rules configuration. Count number of people or stay time		Network			
		and link alarn				Network	RJ-45 (10/100 Base-T)
General Intell	igence					SDK and API	Yes

Wiz Mind | DH-IPC-HDBW5242E-ZE-MF

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 (support max. 256 G)	
Browser	IE (versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12)	
Management Software	Smart PSS, DSS, DMSS	
Mobile Phone	iOS, Android	

C	<u>e.</u>	
cer	UIIC	ations

CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive Certifications 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- 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 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-E Pole mount	PFA101 Mount adapte

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

