



DH-IPC-HDBW5842E-Z4E-S2

8 MP 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.

- 8-MP 1/1.8" CMOS image sensor, low luminance, and high definition
- Outputs max. 8MP (3840× 2160) @30 fps.
- · Max. IR distance: 80 m.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- · Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- · Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card
- 24V AC/PoE/12V DC power supply.
- ePoE, IP67, IK10 protection.
- 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.

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 cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising 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 number and pass number, and displaying and outputting yearly/monthly/daily reports. Support the counting of number in area, and 4 rules
Camera								
Image Sensor		1/1.8"CMOS					People Counting	configuration. Count number of people or stay time and link alarm.
Max. Resolution		3840 (H) × 2160 (V)					Support queue management, and 4 rules configuration. Count number of people or stay time and link alarm.	
ROM		128 MB					Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event
RAM		1 GB					Video	videos.
Scanning System		Progressive						H.265; H.264; H.264H; H.264B; MJPEG (Only supported
Electronic Sh	Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				Video Compression	by the sub stream)
Min. Illumination		0.004 lux@F1.4 (Color, 30 IRE) 0.0004 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on)					Smart Codec	Smart H.265+/H.264+ Main stream: 3840× 2160 (1 fps–25/30 fps)
S/N Ratio		>56 dB					Video Frame Rate	Sub stream: D1 (1 fps-25/30 fps) Third stream: 1080p (1 fps-25/30 fps)
	Illumination Distance		80 m (262.5 ft)					*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.
Illuminator C	On/Off Control	Auto; manual; zoomprio					Stream Capability	3 streams
Illuminator N	lumber	3 (IR)						3840 × 2160; 3072 × 2048; 3072 × 1728; 2592 × 1944;
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–80°					Resolution	2688 × 1520; 2048 × 1536; 2304 × 1296; 1080p (1920 × 1080); 1.3 MB (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
		Rotation: 0°–355°					Bit Rate Control	CBR/VBR
Lens							Video Bit Rate	H.264: 3 kbps-20480 kbps H.265: 3 kbps-20480 kbps
Lens Type		Motorized vari-focal					Day/Night	Auto (ICR)/Color/B/W
Mount Type		Module					BLC	Yes
Focal Length		8 mm-32 mm					HLC	Yes
Max. Aperture		F1.4 (Constant)					WDR	120 dB
Field of View		Horizontal: 42°–14.9° Vertical: 23.3°–8.6° Diagonal: 48.5°–16.9°					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Iris Control		Auto					Gain Control	Auto; manual
Close Focus Distance		W: 3.0 m (9.84 ft)					Noise Reduction	3D NR
Close Focus	Distance	T: 5.5 m (18.04 ft)					Motion Detection	OFF/ON (4 areas, rectangular)
	Lens	Detect	Observe	Recognize	Identify		Region of Interest (RoI)	Yes (4 areas)
DORI Distance	W	213.6 m (700.8 ft)	85.4 m (280.2 ft)	42.7 m (140.1 ft)	21.4 m (70.2 ft)		Image Stabilization	Electronic Image Stabilization (EIS)
	Т	572.8 m (1879.3 ft)	229.1 m (751.6 ft)	114.6 m (376.0 ft)	70.2 m (188.0 ft)		Defog	Yes
Smart Eve	ent	(10/3/3/14) (/31/0/14) (3/0/0/14) (100/0/14)					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 4 M resolution and lower)
IVS		Abandoned object; moving object					Mirror	Yes
Heat Map		Yes					Privacy Masking	8 areas
Professional, intelligent						Audio		
IVS (Perimeter Protection)		Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people					Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
							Alarm	
Face Detection		Face detection; track; snapshot optimization; snapshot; face enhancement; face exposure; face matting setting: face, single inch photo; three snapshot methods: real-time snapshot, optimized snapshot, quality priority snapshot; face angle filter; optimization time setting					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; abandoned object; missing object; fast moving; parking detection; loitering detection; people gathering; input abnormal detection; intensity change detection; people counting; face detection; people counting in area; stay alarm; people

No. exception detection; queue management

Network	
Network Port	RJ-45 (10/100 Base-T)
SDK and API	Yes
Cyber Security	Video encryption; configuration encryption; Digest; WSSE; account lockout; security logs; generation and importing of X.509 certification; HTTPS; trusted boot; trusted execution; trusted upgrade
Network 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; SAMBA; PPPoE; 802.1x; SNMP
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; P2P
User/Host	20 (Total bandwidth: 80 M)
Storage	FTP; SFTP; Micro SD card (Support max. 256 G); NAS
Browser	IE: IE8 and later Chrome Firefox
Management Software	Smart PSS; DSS; DMSS
Mobile Client	iOS; Android
Certification	
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
Port	
Audio Input	1 channel (terminal)
Audio Output	1 channel (terminal)
Alarm Input	1 channels in: 5 mA 5 VDC
Alarm Output	1 channels out: 300 mA 12 VDC
Alarm Output	2 channels out: 1,000 mA 30 VDC/500 mA 50 VDC
Power	
Power Supply	12 VDC (±25%)/24 VAC (±30%)/PoE (802.3af)/ePoE
Power Consumption	Basic power consumption: 5.1 W (12V DC); 5.0 W (24 VAC); 5.7 W (PoE) Max. power consumption (H.265 + max. stream + intelligent function + IR LED + focus): 12.8 W (12 VDC); 12.3 W (24 VAC); 12.5 W (PoE)
Environment	
Operating Temperature	-30 °C to +60 °C (-22 °F to +140 °F)/Less than 95% RH
Storage Temperature	-30 °C to +60 °C (-22 °F to +140 °F)
Protection	IP67, IK10

Structure

Casing	Metal, plastic		
Product Dimensions	Φ159.1 mm × 118.1 mm (6.26" × 4.65")		
Net Weight	0.95 kg (2.09 lb)		
Gross Weight	1.20 kg (2.65 lb)		

Ordering Information					
Туре	Model	Description			
8MP Camera	DH-IPC-HDBW5842EP-ZE- 0832-DC12AC24V-S2	8 MP IR Vari-focal Dome WizMind Network Camera, PAL			
SIVIP Camera	IPC-HDBW5842EP-ZE-0832- DC12AC24V-S2	8 MP IR Vari-focal Dome WizMind Network Camera, PAL			
	PFA138	Junction Box Bracket			
	PFB210W	Wall Mount Bracket			
	PFB300C	Ceiling Mount Bracket			
	PFA152-E	Pole Mount Bracket			
Accessories (Optional)	PFB201C	In-ceiling Mount Bracket			
	PFA101	Mount Adapter			
	PFM321D	12 VDC 1A Power Adapter			
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender			
	PFM900-E	Integrated Mount Tester			

Accessories

Optional:



PFA138 Junction Box Bracket



PFB210W Wall Mount Bracket



PFB300C Ceiling Mount Bracket



PFA152-E Pole Mount Bracket



PFB201C In-ceiling Mount Bracket



PFA101 Mount Adapter



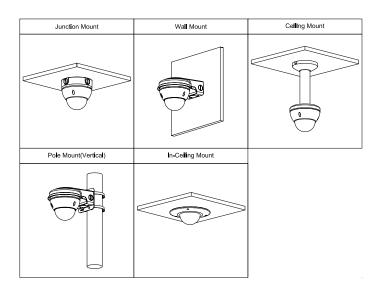
PFM321D 12 VDC 1A Power Adapter



LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extenderqq



PFM900-E Integrated Mount Tester



Dimensions (mm[inch])

