



DH-IPC-HDBW5842E-ZE-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 illuminance, high image
- Outputs max. 8 MP (3840 × 2160) @30 fps.
- · Max. IR distance: 40 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.

ePoF

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							Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event
Camera						videos.		
Image Sensor		1/1.8" CMOS					Video	
Max. Resolution		3840 (H) × 2160 (V)					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
ROM		128 MB					Smart Codec	Smart H.265+/H.264+
RAM		1 GB						Main stream: 3840× 2160 (1 fps–25/30 fps) Sub stream: D1 (1 fps–25/30 fps) Third stream: 1080p (1 fps–25/30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.
Scanning System		Progressive					Video Frame Rate	
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s						
Min. Illumination		0.004 Lux@F1.4 (Color, 30IRE) 0.0004 Lux@F1.4 (B/W, 30IRE) 0 lux (Illuminator on)					Stream Capability	3 streams
S/N Ratio	S/N Ratio		> 56 dB				Resolution	3840 x 2160; 2592 x 1944; 2688 x 1520; 2560 x 1440; 2304 x 1296; 1080p (1920 x 1080); 1.3M (1280 x 960); 720p (1280 x 720); D1 (704 x 576/704 x 480); VGA (640 x 480); CIF (352 x 288/352 x 240)
Illumination Distance		40 m (131.2 ft)						
Illuminator (Illuminator On/Off Control		Auto; Manual				Bit Rate Control	CBR/VBR
Illuminator I	Number	3 (IR)					Video Bit Rate	H.264: 32 kbps-8192 kbps H.265: 32 kbps-8192 kbps
Pan/Tilt/Rot	Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–80° Rotation: 0°–355°				Day/Night	Auto (ICR)/Color/B/W
Lens	Lens						BLC	Yes
Lens Type		Motorized vari-focal					HLC	Yes
Lens Mount	Lens Mount		ф14				WDR	120 dB
Focal Length		2.7 mm-12.0 mm					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Max. Apertu	Max. Aperture		F1.4				Gain Control	Auto; manual
Field of Viev	Field of View		Horizontal: 110.4° (W)–45° (T) Vertical: 57.8° (W)–25.2° (T)				Noise Reduction	3D NR
Iris Control		Diagonal: 133.8° (W)–51.8° (T) Auto					Motion Detection	OFF/ON (4 areas, rectangular)
Close Focus Distance		1.0 m (3.3 ft)					Region of Interest (RoI)	Yes (4 areas)
	Lens	Detect	Observe	Recognize	Identify		Image Stabilization	Electronic Image Stabilization (EIS)
DORI	W	86 m	34.4 m	17.2 m	8.6 m		Defog	Yes
Distance	T	(282.2 ft) 196 m	(112.9 ft) 78.4 m	(56.4 ft) 39.2 m	(28.2 ft) 19.6 m		Image Rotation	0°/90°/180°/270°(Support 90°/270° with 4M resolution and lower)
0		(643.0 ft) (257.2 ft) (128.6 ft)	(64.3 ft)		Mirror	Yes		
Smart Eve	ent						Privacy Masking	4 areas
IVS		Abandoned object; missing object					Audio	
Heat Map	1	Yes					Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
Professio	nal, intellige						Alarm	
IVS (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					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
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 Support the counting of enter number, leave number						
People Counting		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.					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 Safari: Safari 12 and later			
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			
Power				
Power Supply	12 VDC (±25%)/24 VAC (±30%)/PoE (802.3af)/ePoE			
Power Consumption	Basic power consumption: 5.2 W (12 VDC); 5.0 W (24 VAC); 5.5 W (P0E) Max. power consumption (H.265 + max. stream + intelligent function + IR LED + focus): 9.6 W (12 VDC); 9.9 W (24 VAC); 10.1W (P0E)			
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			
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	DH-IPC-HDBW5842EP-ZE- 2712-DC12AC24V-S2	8 MP IR Vari-focal Dome WizMind Network Camera, PAL				
Camera	IPC-HDBW5842EP-ZE-2712- DC12AC24V-S2	8 MP IR Vari-focal Dome WizMind Network Camera, PAL				
	PFA138	Junction Box Bracket				
	PFB211W	Wall Mount Bracket				
	PFB300C	Ceiling Mount Bracket				
	PFA152-E	Pole Mount Bracket				
Accessories (Optional)	PFB201C	In-ceiling Mount Bracket				
(Optional)	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:







PFB211W Wall Mount Bracket



PFB300C Ceiling Mount Bracket



PFA152-E Pole Mount Bracket



PFB201C In-ceiling Mount Bracket



PFA101 Mount Adapter



PFM321D 12 VDC 1 A Power Adapter

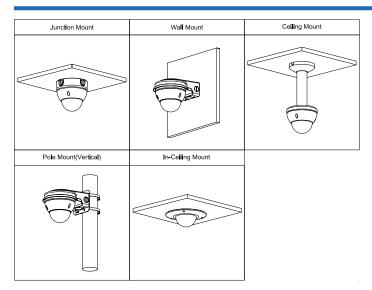


LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extender



PFM900-E Integrated Mount Tester





Dimensions (mm[inch])

