



DH-IPC-HDBW5541E-ZE

5MP 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.

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.

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.

- 5-MP 1/2.7" CMOS image sensor, low luminance, and high definition
- Outputs max. 5 MP (2592 × 1944)@20 fps.
- Built-in IR LED, and the max. illumination distance is 40 m.
- ROI, SVC, SMART H.264+/H.265+, AI H.264/H.265, encoding after filter, flexible coding, applicable to various bandwidth and storage environments.
- · Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Three switchable intelligent resources: IVS, face detection, and people counting.
- · Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD
- 24 VAC/12 VDC/PoE power supply, easy for installation.
- ePoE; IP67 and IK10 protection.
- SMD 3.0.













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 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	l Specificati	on						Tripwire people counting and people counting in area,
Camera						People Counting	generating and exporting report (day/month/year); queue management, generating and exporting report (day/month); 4 rules can be set for tripwire, people counting in area and queue management	
Image Sensor		1/2.7" CMOS						
Max. Resolution		2592 (H) × 1944 (V)				Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos	
ROM		128 MB						
RAM		1 GB					Video	
Scanning System		Progressive					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Smart Codec	Smart H.265+; Smart H.264+
Min. Illumination		0.005 lux@F1.5 (Color, 30 IRE) 0.0005 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)					Al Coding	AI H.265; AI H.264
S/N Ratio		>56 dB					Main stream: 2592 × 1944@(1 fps-20 fps); 2688 × 1520@(1 fps-25/30 fps) Sub stream: D1@(1 fps-50/60 fps) Third stream: 1080p@(1 fps-50/60 fps)	
Illumination Distance		40 m (131.23 ft) (IR)						Video Frame Rate
Illuminator On/Off Control		Auto						*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 Number		4 (IR LED)					Stream Capability	3 streams
Pan/Tilt/Rota	ation Range	Pan: 0°–355° Tilt: 0°–65°					Stream Capability	2592 × 1944; 2688 × 1520; 2304 × 1296; 1080p (1920 ×
Lens		Rotation: 0°–355°					Resolution	1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Lens Type		Motorized vari-focal					Bit Rate Control	CBR/VBR
Lens Mount		ф14					Video Bit Rate	H.264: 32 kbps-8192 kbps H.265: 32 kbps-8192 kbps
Focal Length		2.7 mm-13.5 mm					Day/Night	Auto(ICR)/Color/B/W
Max. Aperture		F1.5					BLC	Yes
Field of View		Horizontal: 100°–28° Vertical: 72°–21°					HLC	Yes
Iris Control		Diagonal: 133°–35° Auto					WDR	120 dB
Close Focus Distance		0.8 m (2.62 ft)					Scene Self-adaptation	Yes
	Lens	Detect	Observe	Recognize	Identify		(SSA)	Auto; natural; street lamp; outdoor; manual; regional
DORI	W	64 m (209.97 ft)	25.6 m (83.99 ft)	12.8 m (41.99 ft)	6.4 m (21.00 ft)		White Balance	custom
Distance		212 m	84.8 m	42.4 m	21.2 m		Gain Control	Auto; manual
	Т	(695.54 ft)	(278.22 ft)	(139.11 ft)	(69.55 ft)		Noise Reduction	3D NR
Smart Eve	Smart Event						Motion Detection	OFF/ON (4 areas, rectangular)
IVS		Abandoned object; missing object					Region of Interest (RoI)	Yes (4 areas)
Heat Map		Yes					Image Stabilization	Electronic Image Stabilization (EIS)
Professio	nal, intellige	ent					Smart Illumination	Yes
IVS (Perimet	IVC (Devimentor Drotostica)		Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection				Defog	Yes
IVS (Perimeter Protection)		of vehicle and human); loitering detection, people gathering, and parking detection					Image Rotation	0°/90°/180°/270°
SMD 3.0		Less false alarm, longer detection distance					Mirror	Yes
Face Detection		Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face					Privacy Masking	8 areas
		exposure; face attributes extraction including 6 attributes (gender, age, glasses, expressions, mask, and beard) and 8 expressions (angry, sad, disgusted, scared, surprised, calm, happy, confused); face snapshot set as face or					Audio	
							Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
		one-inch photo; snapshot strategies (real-time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting						

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; tripwire; intrusion; abandoned object; missing object; fast moving; parking detection; loitering detection; people gathering; input error; intensity change; people counting; face detection; voltage detection; people counting in area; stay detection; people number error detection; queue management						
Network							
Network Port	RJ-45 (10/100 Enhancement 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						
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP; Bonjour						
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone						
User/Host	20 (Total bandwidth: 88 M)						
Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS						
Browser	IE: IE8 and later Chrome Firefox						
Management Software	Smart PSS, DSS, DMSS						
Mobile Client	iOS; Android						
Certification							
Certifications	CE-LVD: EN 62368-1 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 (RCA port)						
Audio Output	1 channel (RCA port)						
Alarm Input	1 channels in: 5 mA 3 V–5V DC						
Alarm Output	1 channel out: 300 mA 12V DC						
Power							
Power Supply	12 VDC (±30%)&24 VAC (±30%); PoE (802.3af); ePoE						
Power Consumption	Basic: 4.9 W (12 VDC); 5.1 W (24 VAC); 5.2 W (PoE) Max. (max. stream + intelligence + IR on + focus): 12.4 W (12 VDC); 11.9 W (24 VAC); 11.6 W (PoE)						
Environment							
Operating Temperature	-30 °C to +60 °C (-22 °F to +140 °F)						
Operating Humidity	≤ 95%						
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)						
Protection	IP67; IK10						
Structure							
Casing	Metal + plastic						

Product Dimensions	Φ159 mm × 117.9 mm (6.26" × 4.64")		
Net Weight	950 g (2.09 lb)		
Gross Weight	1200 g (2.65 lb)		

Ordering Information						
Туре	Model	Description				
5MP Camera	DH-IPC-HDBW5541EP-Z5E	5MP IR Vari-focal Dome WizMind Network Camera, PAL				
Sivir Camera	DH-IPC-HDBW5541EN-Z5E	5MP IR Vari-focal Dome WizMind Network Camera, NTSC				
	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:



PFA138 Junction Box Bracket



PFB211W Wall Mount Bracket



PFB300C Ceiling Mount Bracket



PFA152-E Pole Mount Bracket



PFB201C In-ceiling Mount Bracket



PFM321D 12 VDC 1A Power Adapter

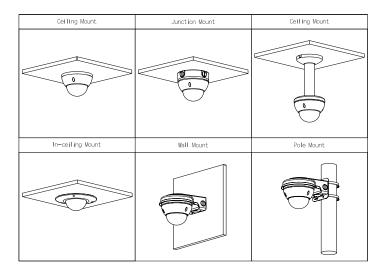


LR1002-1ET/1EC Single-port Long Reach Ethernet Over Coax Extender



PFM900-E Integrated





Dimensions (mm[inch])

