



DH-IPC-HDBW5241E-ZE

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.

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.

- 2-MP 1/2.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 2 MP (1920 × 1080)@30 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.

Camera Image Sensor 1/2.8" CMOS Max. Resolution 1920 (H) × 1080 (V) ROM 128 MB				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
Max. Resolution 1920 (H) × 1080 (V)				People Counting	or stay time and link alarm. Support queue management,
ROM 128 MB					stay time and link alarm.
				Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event
RAM 512 MB		512 MB			videos
Scanning System Progressive		Progressive			H.265; H.264; H.264H; H.264B; MJPEG (Only supported
Electronic Shutter Speed Auto/Manual 1/3 s-1/100,000 s	Auto/Manual 1/3 s-1/100,000 s			Video Compression	by the sub stream)
0.002 lux@F1.5 (Color, 30 IRE) 0.0002 lux@F1.5 (B/W, 30 IRE) 0.0002 lux@f1.5 (B/W, 30 IRE)	0.0002 lux@F1.5 (B/W, 30 IRE)			Smart Codec Al Coding	Smart H.265+; Smart H.264+ AI H.265; AI H.264
S/N Ratio >56 dB	0 lux (Illuminator on) >56 dB			Video Frame Rate	Main stream: 1920 × 1080@(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
Illumination Distance 40 m (131.23 ft) (IR)					
Illuminator On/Off Control Auto					to the total encoding capacity.
Illuminator Number 3 (IR LED)				Stream Capability	3 streams
Pan: 0°–355° Pan/Tilt/Rotation Range Tilt: 0°–65° Rotation: 0°–355°			Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
Lens				Bit Rate Control	CBR/VBR
Lens Type Motorized vari-focal			Video Bit Rate	H.264: 32 kbps–8192 kbps H.265: 32 kbps–8192 kbps	
Lens Mount $\phi14$	ens Mount ϕ 14			Day/Night	Auto (ICR)/Color/B/W
Focal Length 2.7 mm-13.5 mm	Focal Length 2.7 mm-13.5 mm			BLC	Yes
Max. Aperture F1.5	Aperture F1.5			HLC	Yes
Horizontal: 109°–30° Field of View Vertical: 57°–17°				WDR	120 dB
Diagonal: 131°–35°			Scene Self-adaptation (SSA)	Yes	
Iris Control Auto				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Close Focus Distance 0.8 m (2.62 ft)	ognizo	Idontifu		Gain Control	Auto; manual
444 476 00	ognize 8 m	Identify 4.4 m		Noise Reduction	3D NR
DOM (M)	.87 ft)	(14.44 ft)		Motion Detection	OFF/ON (4 areas, rectangular)
T 146.2 m 58.4 m 29.2 (479.66 ft) (191.60 ft) (85.8	.2 m .80 ft)	14.6 m (47.90 ft)		Region of Interest (RoI)	Yes (4 areas)
Smart Event	smart Event			Image Stabilization	Electronic Image Stabilization (EIS)
IVS Abandoned object; missing object				Smart Illumination	Yes
Heat Map Yes				Defog	Yes
Professional, intelligent	Professional, intelligent			Image Rotation	0°/90°/180°/270°
Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection			Mirror	Yes	
				Privacy Masking	8 areas
SMD 3.0 Less false alarm, longer detection distance				Audio	
Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face 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 one-inch photo; snapshot strategies (real-time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting			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; 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: 80 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 (terminal)	
Audio Output	1 channel (terminal)	
Alarm Input	1 channels in: 5 mA 3 V–5 VDC	
Alarm Output	1 channel out: 300 mA 12 VDC	
Power		
Power Supply	12 VDC (±25%)&24 VAC (±30%); PoE (802.3af); ePoE	
Power Consumption	Basic: 4.6 W (12 VDC); 4.9 W (24 VAC); 4.9 W (PoE) Max. (max. stream + intelligence + IR on + focus): 11.8 W (12 VDC); 11.5 W (24 VAC); 11.3 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)	

IP67; IK10

Protection

Structure

Casing	Metal + plastic	
Product Dimensions	Ф159 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			
2MP Camera	DH-IPC-HDBW5241EP-ZE	2MP IR Vari-focal Dome WizMind Network Camera, PAL			
	DH-IPC-HDBW5241EN-ZE	2MP 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			
	PFA101	Mount Adapter			
	PFM321D	12 VDC 1A Power Adapter			
	PFM900-E	Integrated Mount Tester			
	TF-P100/256G	MicroSD Memory Card			

Accessories

Optional:



PFA138 Wall Mount Bracket



PFB211W Wall Mount Bracket



PFB300C Ceiling Mount Bracket



PFA152-E Pole Mount Bracket



PFB201C In-ceiling Mount Bracket



PFM321D nt 12 VDC 1A Po Adapter

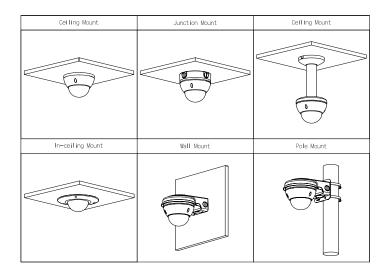


PFM900-E Integrated Mount Tester



TF-P100/256G MicroSD Memory Card





Dimensions (mm[inch])

