



DH-IPC-HDBW5241E-ZHE

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, IK10 protection, Heater.
- 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 Specification						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. Support queue management, and 4 rules configuration. Count number of people or
Camera								
Image Sensor		1/2.8" CMOS						
Max. Resolution		1920 (H) × 1080 (V)						stay time and link alarm.
ROM		128 MB					Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
RAM		512 MB					Video	
Scanning System		Progressive					Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s					Smart Codec	by the sub stream) Smart H.265+; Smart H.264+
Min. Illumina	Min. Illumination		0.002 lux@F1.5 (Color, 30 IRE) 0.0002 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)				Al Coding	AI H.265; AI H.264
S/N Ratio	S/N Ratio		>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 to the total encoding capacity.
Illumination D	Illumination Distance		40 m (131.23 ft) (IR)					
Illuminator O	Illuminator On/Off Control		Auto					
Illuminator No	Illuminator Number		3 (IR LED)				Stream Capability	3 streams 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280
Pan/Tilt/Rota	Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–65° Rotation: 0°–355°				Resolution	× 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		ф14					Day/Night	Auto (ICR)/Color/B/W
Focal Length		2.7 mm-13.5 mm					BLC	Yes
Max. Aperture		F1.5					HLC	Yes
Field of View	,	Horizontal: 1 Vertical: 57°-					WDR	120 dB
	Tield of View		Diagonal: 131°–35°				Scene Self-adaptation (SSA)	Yes
Iris Control Close Focus I	Iris Control		Auto				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
close rocus i		0.8 m (2.62 f	Observe	Dagagniza	Idontifu		Gain Control	Auto; manual
5051	Lens	Detect 44.1 m	17.6 m	Recognize 8.8 m	Identify 4.4 m		Noise Reduction	3D NR
DORI Distance	W	(144.69 ft)	(57.74 ft)	(28.87 ft)	(14.44 ft)		Motion Detection	OFF/ON (4 areas, rectangular)
	Т	146.2 m (479.66 ft)	58.4 m (191.60 ft)	29.2 m (85.80 ft)	14.6 m (47.90 ft)		Region of Interest (RoI)	Yes (4 areas)
Smart Eve	ent						Image Stabilization	Electronic Image Stabilization (EIS)
IVS	IVS		Abandoned object; missing object				Smart Illumination	Yes
Heat Map		Yes					Defog	Yes
Profession	Professional, intellige		ent				Image Rotation	0°/90°/180°/270°
			Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection				Mirror	Yes
IVS (Perimeter Protection)		of vehicle and human); loitering detection, people gathering, and parking detection					Privacy Masking	8 areas
SMD 3.0		Less false alarm, longer detection distance					Audio	
		Face detection; track; snapshot; snapshot optimization;					Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
Face Detection		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					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+ (802.3at); ePoE						
Power Consumption	Basic: 4.6 W (12 VDC); 4.9 W (24 VAC); 4.9 W (PoE) Max. (H.265 + 3 streams + Intelligence + IR on + heating): 18 W (12 VDC); 16.9 W (24 VAC); 16.2 W (PoE) Heating: 15.5 W (12 VDC); 14.7 W (24 VAC); 13.5 W (PoE)						
Environment							
Operating Temperature	-40 °C to +60 °C (-40 °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			
2MP Camera	DH-IPC-HDBW5241EP-ZHE	2MP 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			
	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 12 VDC 1A Power Adapter

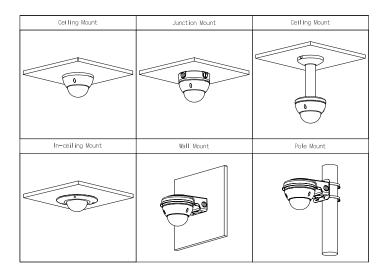


PFM900-E Integrated Mount Tester



TF-P100/256G MicroSD Memory Card





Dimensions (mm[inch])

