



DH-IPC-HF5442E-E

4 MP Box 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.

- 4-MP 1/1.8" CMOS image sensor, low luminance, and high definition
- Outputs max. 4 MP (2688 × 1520) @30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- ROI, SMART H.264 +/H.265+,AI 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.
- Intelligent monitoring: Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); abandoned object, missing object, loitering detection, people gathering, parking detection, heat map and face detection.
- · Abnormality detection: Motion detection, video tampering, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict and illegal access.
- · Alarm: 2 in, 1 out; audio: 1 in, 1 out; 485; BNC; supports max. 256 G Micro SD card, built in MIC.
- 24 VAC/12 VDC/PoE power supply, easy for installation.
- · ePoF
- 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 (wide voltage)

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	on	Stream Capability	3 streams
Camera		Resolution	2688 × 1520; 2304 × 1296;1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 ×
Image Sensor	1/1.8" CMOS		480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Max. Resolution	2688 (H) × 1520 (V)	Bit Rate Control	CBR/VBR
ROM	128MB	Video Bit Rate	H.264: 3 kbps–20480 kbps H.265: 3 kbps–20480 kbps
RAM	1GB	Day/Night	Auto (ICR)/Color/B/W
Scanning System	Progressive	BLC	Yes
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s	HLC	Yes
Min. Illumination	With F1.6 lens: 0.002 lux@F1.6 (Color, 30 IRE) 0 lux (Illuminator on)	WDR	140 dB
S/N Ratio	> 56 dB	Scene Self-adaptation (SSA)	Yes
Lens		White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens Mount	C/CS	Gain Control	Auto;Manual
Iris Control Type	DC-Iris	Noise Reduction	3D NR
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)
Professional, intellige	ent	Defog	Yes
IVS (Perimeter Protection)	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people	Image Rotation	0°/90°/180°/270°
	gathering, and parking detection	Mirror	Yes
SMD 3.0	Less false alarm, longer detection distance	Privacy Masking	8 areas
	Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 face	Audio Built-in MIC	Yes
Face Detection	attributes (gender, age, glasses, expressions, mask, and beard) and 8 expressions (angry, sad, disgusted, scared,	Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
	surprised, calm, happy, confused); face snapshot set as face, one-inch photo or custom; 3 snapshot strategies		rcwi, G.711a, G.711wu, G.726, G.725
	(real-time snapshot, optimization snapshot and quality first); face angle filter; optimization time setting	Alarm	
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 stay time and link alarm.	Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; defocus detection; external alarm; face detection; SMD; people counting in area; stay detection; people counting; security exception
	Work together with Smart NVR to perform refine	Network	
Smart Search	intelligent search, event extraction and merging to event videos	Network Port	RJ-45 (10/100 Base-T)
Video		SDK and API	Yes
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)		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
Smart Codec	Smart H.265+; Smart H.264+	Cyber Security	
AI Coding	AI H.265; AI H.264		execution; trusted upgrade
Video Frame Rate	Main stream: 2688 × 1520 (1 fps–25/30 fps) /1920 × 1080 (1 fps–50/60 fps) Sub stream: D1@ (1–25/30 fps) Third stream: 1080p@ (1–25/30 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.	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 GB); NAS	
Browser	IE: IE 8 and later Chrome Firefox	
Management Software	Smart PSS; DSS; DMSS	
Mobile Client	iOS; Android	
Certification		
Certifications	CE-LVD: EN60950-1; 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		
RS-485	1 (baud rate range:1200 bps–115200 bps)	

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Audio Input	1 channel (3. 5 mm JACK port)
Audio Output	1 channel (3.5 mm JACK port)
Alarm Input	2 channels in: 5 mA 3V–5 VDC
Alarm Output	1 channel out: 300 mA 12 VDC

Power

Power Supply	12 VDC/24 VAC/PoE (802.3af)/ePoE	
Power Consumption	Basic: 4.1 W (12 VDC); 4.3 W (24 VAC); 4.4 W (PoE) Max. (H.265+three streams+intelligence on+IR on): 9.2 W (12 VDC); 8.7 W (24 VAC); 9.2 W (PoE)	

Environment

Operating Temperature	-30 °C to +60 °C (-22 °F to +140 °F)	
Storage Temperature	≤ 95%	
Protection	-40 °C to +60 °C (-40 °F to +140 °F)	

Structure

Casing	Metal
Product Dimensions	135.4 mm \times 74.4 mm \times 65.5 mm (5.3" \times 2.9" \times 2.6") (L \times W \times H)
Net Weight	528 g (1.16 lb)
Gross Weight	620 g (1.37 lb)

Ordering Information		
Туре	Model	Description
4MP Camera	DH-IPC-HF5442EP-E	4 MP Box WizMind Network Camera, PAL
	DH-IPC-HF5442EN-E	4 MP Box WizMind Network Camera, NTSC
Accessories (Optional)	PFB121W	Wall Mount Bracket
	PFB110W	Ceiling Mount Bracket
	PFB110C-E	Ceiling Mount Bracket
	PLZ21C0-D	10.5-42mm
	PFM321D	12 VDC 1A Power Adapter
	PFM900-E	Integrated Mount Tester
	TF-P100/256G	MicroSD Memory Card

Accessories

Optional:



PFB121W Wall Mount Bracket



PLZ21C0-D 10.5-42mm



PFB110W Ceiling Mount Bracket



PFM321D 12 VDC 1A Power Adapter



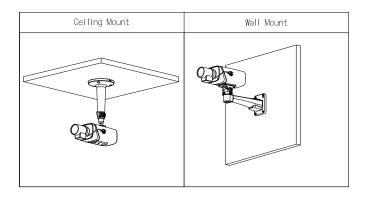
PFB110C-E Ceiling Mount Bracket



PFM900-E Integrated Mount Tester



TF-P100/256G MicroSD Memory Card



Dimensions (mm[inch])

