

DH-IPC-HF5241E-E

2 MP Box WizMind Network Camera



Wiz Mind

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.
- 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.
- ePoE.
- 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 $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



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Technical Specification

Camera			
Image Sensor	1/2.8" CMOS		
Max. Resolution	1920 (H) × 1080 (V)		
ROM	128 MB		
RAM	512 MB		
Scanning System	Progressive		
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s		
Min. Illumination	With F1.6 lens: 0.002 lux@F1.6 (Color, 30 IRE) 0 lux (Illuminator on)		
S/N Ratio	> 56 dB		
Lens			
Lens Mount	C/CS		
Iris Control Type	DC-Iris		
Smart Event			
IVS	Abandoned object; missing object		
Heat Map	Yes		
Professional, intelligent			
IVS (Perimeter Protection)	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection		
SMD 3.0	Less false alarm, longer detection distance		
	Face detection; track; snapshot; snapshot optimization;		

0 lux (Illuminator on)	()	
> 56 dB	White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
	Gain Control	Auto;Manual
c/cs	Noise Reduction	3D NR
DC-Iris	Motion Detection	OFF/ON (4 areas, rectangular)
	Region of Interest (RoI)	Yes (4 areas)
Abandoned object; missing object	Image Stabilization	Electronic Image Stabilization (EIS)
Yes	Defog	Yes
nt	Image Rotation	0°/90°/180°/270°
Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection	Mirror	Yes
of vehicle and human); loitering detection, people gathering, and parking detection	Privacy Masking	8 areas
Less false alarm, longer detection distance	Audio	
Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face	Built-in MIC	Yes
exposure; face attributes extraction including 6 face attributes (gender, age, glasses, expressions, mask, and	Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
beard) and 8 expressions (angry, sad, disgusted, scared, surprised, calm, happy, confused); face snapshot set as	Alarm	
face, one-inch photo or custom; 3 snapshot strategies (real-time snapshot, optimization snapshot and quality first); face angle filter; optimization time setting 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	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
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	detection; people counting; security exception
Work together with Smart NVR to perform refine	Network Port	RJ-45 (10/100 Base-T)
intelligent search, event extraction and merging to event videos	SDK and API	Yes
H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream) Smart H.265+; Smart H.264+	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
AI H.265; AI H.264		IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP;
Main stream: 1080p (1–25/30 fps) Sub stream: D1@ (1–25/30 fps) Third stream: 1080p@ (1–25/30 fps)	Network Protocol	RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; 802.1x; SNMP
*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.	Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; P2P
3 streams	User/Host	20 (Total bandwidth: 80 M)

Resolution

Bit Rate Control

Video Bit Rate

Day/Night

BLC

HLC

WDR

(SSA)

Scene Self-adaptation

1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF

(352 × 288/352 × 240)

H.264: 3 kbps-20480 kbps

H.265: 3 kbps-20480 kbps

Auto (ICR)/Color/B/W

CBR/VBR

Yes

Yes

Yes

120 dB

Smart H.265+; Smart H.264+ Smart Codec AI H.265; AI H.264 AI Coding Main stream: 1080p (1-25/30 fps) Sub stream: D1@ (1-25/30 fps) Third stream: 1080p@ (1-25/30 f Video Frame Rate *The values above are the max. fra stream; for multiple streams, the v

Face Detection

People Counting

Smart Search

Video Compression

Stream Capability

Video

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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)	
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): 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)	
Operating Humidity	≤ 95%	
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Structure		
Casing	Metal	
Product Dimensions	135.4 mm × 74.4 mm × 65.5 mm (5.3" × 2.9" × 2.6") (L × W × H)	
Net Weight	528 g (1.16 lb)	
Gross Weight	620 g (1.37 lb)	

Ordering Information				
Туре	Model	Description		
2MP Camera	DH-IPC-HF5241EP-E	2 MP Box WizMind Network Camera, PAL		
	DH-IPC-HF5241EN-E	2 MP Box WizMind Network Camera, NTSC		
Accessories (Optional)	PFB121W	Wall Mount Bracket		
	PFB110W	Ceiling Mount Bracket		
	PFB110C-E	Ceiling Mount Bracket		
	PFL2712-E6D	2.7-12mm		
	PFM321D	12 VDC 1A Power Adapter		
	PFM900-E	Integrated Mount Tester		
	TF-P100/256G	MicroSD Memory Card		

Accessories

Optional:





PFB110W Ceiling Mount Bracket



PFM900-E Integrated Mount Tester



Bracket







PFM321D 12 VDC 1A Power Adapter

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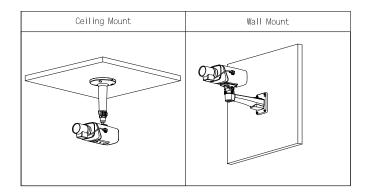
PFL2712-E6D

2.7-12mm

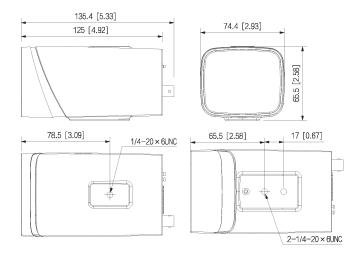
TF-P100/256G MicroSD Memory Card



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Dimensions (mm[inch])



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