

DH-IPC-EBW81242-AS-S2

12MP IR Fisheye WizMind Network CAMERA



WizMind

Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, IVSS, 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 fisheye lens, Dahua Fisheye series camera can realize 360° surveillance, and it is widely applied in various scenes such as airports, shopping centers, banks and hotels.

Functions

Fisheye VR

With intelligent algorithm, Dahua Fisheye VR technology provides interactive 3-dimensional dynamic view through fisheye image. Dahua fisheye VR supports various interactive modes, such as original, bowl, cylinder and asteroid, providing more interactive experience.

Fisheye Front-dewarp

Utilizes its hardware decoding ability to offer different types of dewarping modes. These modes not only adapt to different installation methods, but also effectively solve distortion issues that typically occur in the standard fisheye view. This function also directly outputs dewarped streams, making it convenient to dock with back-end or third-party platforms.

Perimeter Protection

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, and more, and uses secondary recognition during target detection to improve alarm accuracy.

- 12MP 1/1.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 12M (4000 × 3000)@25 fps; supports 8M (3280 × 2480)@25/30 fps.
- Built-in IR LED, and the max. illumination distance is 10 m.
- SMART H.264 +/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Intelligent monitoring: tripwire, intrusion (the two functions support accurate detection of human), heat map, and people counting.
- Abnormality detection: Motion detection, privacy masking, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- Alarm: 2 in, 2 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card; built-in dual-array Mic and speaker.
- 12V DC/PoE+ power supply.
- IP67 and IK10 protection.
- Supports fisheye front-dewarp and back-dewarp.



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 reports to meet your requirements.

Heat Map

Dahua heat map technology is used to display the crowd density and people appearance probability. Display the crowd status by different colors. Generally, the crowd status is the statistics of people quantity in space and time dimensions.

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 work normally 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.

Queue Management

With advanced image processing technology and deep learning algorithm, Dahua Queue Management technology counts people quantity in selected area in real time to realize queue management. It supports multiple polygon areas. When No. in area/strand time is not smaller or not larger than the threshold, it triggers alarm.

Technical Specification

Camera

Image Sensor	1/1.7" CMOS
Max. Resolution	4000 (H) × 3000 (V)
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Min. Illumination	0.01 lux@F2.0 (Color, 30 IRE); 0.001 lux@F2.0 (B/W, 30 IRE); 0 lux (Illuminator on)
S/N Ratio	> 56 dB
Illumination Distance	1.85 mm: Up to 10 m (32.81 ft) (IR LED)
Illuminator On/Off Control	Auto;Manual
Illuminator Number	3 (IR LED)

Lens

Lens Type	Fixed-focal
Lens Mount	M12
Focal Length	1.85 mm
Max. Aperture	F2.0
Field of View	1.85 mm: H: 185°; V: 180°
Iris Control	Fixed
Close Focus Distance	1.85 mm: 0.4 m (1.31 ft)

Smart Event

Heat Map	Yes
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Intelligence

IVS (Perimeter Protection)	Tripwire, intrusion (the two functions support accurate detection of human)
People Counting	Supports 4 rules to count the number of people entering, exiting, and staying separately. It will trigger alarm linkage when the number of people who entering, exiting or staying exceeds the threshold. It can display and export reports based on year, month, week, day or custom time. Supports 4 rules to count the number of people in area and will trigger alarm linkage when the average strand time or people number in the area exceeds the threshold. It can display and export reports based on month, week, day or custom time. Supports 4 queue management rules to count number of people queuing and queue time in real time, and it will trigger alarm linkage when the number of people queued or queue time exceeds the threshold. It can

People Counting	display and export reports based on month, week, day or custom time.
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.

Fisheye

Installation	Ceiling mount; wall mount; ground mount
Decoding Mode	Front-dewarp;Back-dewarp
Display mode	Front-dewarp (hardware decoding): 1O; 1P; 2P; 1R; 2R; 4R; 1O+3R. 2P/2R: Supports split screen for 2 windows. 4R: Supports split screen for 4 windows. *O: Fisheye image view; P: Panoramic image view; R: Region image view. Back-dewarp (software decoding): fisheye view; 360° panoramic view + PTZ; dual-channel 180° panoramic view; fisheye + 2PTZ; fisheye + 3PTZ; fisheye + 4PTZ; 360° panoramic view + 6PTZ; fisheye + 8PTZ; 180° panoramic view; 180° panoramic view + 3PTZ; 180° panoramic view + 4PTZ; 180° panoramic view + 8PTZ; VR mode (panorama; semi-circle; cylinder; asteroid).

Video

Video Compression	H.265; H.264; H.264H; MJPEG (Only supported by the sub stream)
Smart Codec	Smart H.265+; Smart H.264+
Video Frame Rate	Main stream: 4000 × 3000@(1–25/30 fps) sub stream: 704 × 576@(1–25/30 fps) third stream: 1280 × 960@(1–17/17 fps) Fisheye mode: 1O (4000 × 3000) 1P (4096 × 1024) 2P (2432 × 2432) 1R (1216 × 1216) 2R (2432 × 2432) 4R (2432 × 2432) 1O + 3R (2432 × 2432) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.
Streaming Capability	3 streams
Resolution	12M (4000 × 3000); 8M (3280 × 2480); 6M (2880 × 2160); 3M (2048 × 1536) ; 1.3M (1280 × 960); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)
Bit Rate Control	CBR/VBR
Video Bit Rate	H264: 8 kbps–16384 kbps H265: 3 kbps–16384 kbps
Day/Night	Auto(ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	DWDR
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Gain Control	Auto
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (Rol)	Yes (4 areas)

Defog	Yes
Privacy Masking	4 areas

Audio

Built-in MIC	Yes
Built-in Speaker	Yes
Audio Compression	G.711a; G.711Mu; G.726; PCM; G.723

Alarm

Alarm Event	No SD card; SD card full; SD card durability warning; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; scene changing; audio detection; voltage detection; external alarm; people counting in area; stay detection; people counting; security exception
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Network

Network Port	RJ-45 (10/100/1000 Base-T)
SDK and API	Yes
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
Interoperability	ONVIF (Profile S & Profile G & Profile T); CGI
User/Host	20.0
Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS
Browser	IE: IE11, IE10 Chrome: 48.0.2564.116 Firefox: 48.0.2 Edge: 42.17134.1.0
Management Software	Smart PSS;DSS;DMSS
Security	Digest;WSE;Account lockout;Security logs;IP/MAC filtering;Generation and importing of X.509 certification;syslog;HTTPS;802.1x;Trusted boot;Trusted execution;Trusted upgrade

Certification

Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14
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Port

Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	2 channels in: supports wet contact connection (max load 5 mA 3-5 VDC); supports dry contact connection
Alarm Output	2 channels out: dry contact, max load 1,000 mA 30 VDC/500 mA 50 VAC

Power

Power Supply	12 VDC/PoE+
Power Consumption	Basic: 6.5 W (12 V DC); 6.1 W (PoE+) Max. (ICR + IR intensity): 13 W (12V DC); 13.9 W (PoE+) Heating: 3 W (12 V DC); 3 W (PoE+)
ePoE	No

Environment

Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Operating Humidity	≤ 95%
Storage Temperature	-30 °C to +70 °C (-22 °F to +158 °F)
Protection	IP67; IK10

Structure

Casing Material	Metal
Product Dimensions	59.8 mm × Φ149.8 mm (2.35" × Φ5.90")
Net Weight	0.79 kg (1.74 lb)
Gross Weight	1.21 kg (2.67 lb)

Ordering Information

Type	Model	Description	
IP CAMERA	DH-IPC-EBW81242-AS-S2	12MP IR Fisheye WizMind Network CAMERA	
	DH-PFB300C	Ceiling Mount Bracket	
	DH-PFA100	Mount Adapter	
	DH-PFA151	Corner Mount Bracket	
	G3416GW	G3/4" Water Joint	
	DH-PFB302S	Wall Mount Bracket	
	DH-PFA150	Pole Mount Bracket	
	Accessories (Optional)	DH-PFA152-E	Pole Mount Bracket
		DH-PFA132-E	Junction Box
		DH-PFM320-020EN	DC12V 2A Power Adapter
		DH-PFM320D-EN	DC12V 2A Power Adapter
		PFM900-E	Integrated Mount Tester
		DHI-TF-W100-256GB	MicroSD Card
DHI-TF-P100/256GB		MicroSD Card	

Accessories

Optional:



DH-PFB300C
Ceiling Mount Bracket



DH-PFA100
Mount Adapter



DH-PFA151
Corner Mount Bracket



G3416GW
G3/4" Water Joint



DH-PFB302S
Wall Mount Bracket



DH-PFA150
Pole Mount Bracket

Optional:



DH-PFA152-E
Pole Mount Bracket



DH-PFA132-E
Junction Box



DH-PFM320-020EN
DC12V 2A Power Adapter



DH-PFM320D-EN
DC12V 2A Power Adapter



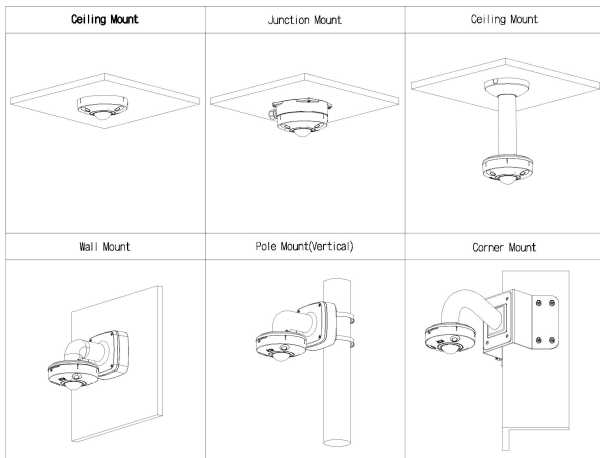
PFM900-E
Integrated Mount Tester



DHI-TF-W100-256GB
MicroSD Card



DHI-TF-P100/256GB
MicroSD Card



Dimensions (mm[inch])

