

DH-IPC-EBW5641-AS

6MP 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.

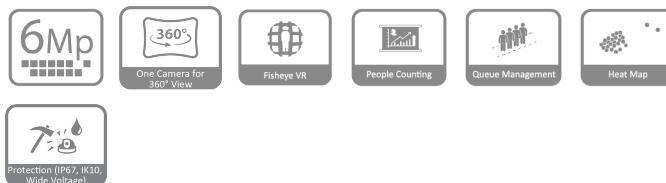
Fisheye Front-dewarp

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.

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.

- * The parameters and datasheets below can only be applied to EBW5641-AS-QH series.
- 6-MP 1/2.5" CMOS image sensor, low luminance, and high definition image.
- Outputs max 6 MP (2560 × 2560)@25/30 fps.
- 360° fisheye monitoring covers all the corners without any blind zone.
- Supports fisheye front-dewarp and back-dewarp.
- Supports split screen for 2 and 4 windows.
- Built-in IR LED, and the max illumination distance is 15 m.
- ROI, AI H.264/AI H.265 (Super AI Coding), flexible coding, applicable to various bandwidth and storage environments.
- WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- With deep learning algorithm, it supports: Perimeter Protection, People Counting, Heat map.
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; max 1TB Micro SD card; built-in speaker and dual Mic; two-way talk.
- 12 VDC/PoE(802.3af) power supply.
- IP67 and IK10 protection.



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.

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.

Technical Specification

Camera

Image Sensor	1/2.5" CMOS
Max. Resolution	2560 (H) × 2560 (V)
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Min. Illumination	0.006 lux@F2.0 (Color, 30 IRE) 0.0006 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)
S/N Ratio	>56 dB
Illumination Distance	1.68 mm: Up to 15 m (49.21 ft) (IR)
Illuminator On/Off Control	Auto;Manual

Lens

Lens Type	Fixed-focal				
Lens Mount	M12				
Focal Length	1.68 mm				
Max. Aperture	F2.0				
Field of View	1.68 mm: H: 185°; V: 185°; D: 185°				
Iris Control	Fixed				
Close Focus Distance	1.68 mm: 0.3 m (0.98 ft)				
DORI Distance	Lens	Detect	Observe	Recogniz e	Identify
	1.68 mm	33.6 m (110.24 ft)	13.4 m (43.96 ft)	6.7 m (21.98 ft)	3.4 m (11.15 ft)
	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.				

Intelligence

EPTZ	Yes
IVS (Perimeter Protection)	Tripwire, intrusion (the two functions support accurate detection of human)
People Counting	Tripwire people counting, generating and exporting report (day/month/year); queue management and people counting in area, generating and exporting report (day/month); 4 rules can be set for tripwire, people counting in area and queue management.
Heat Map	Yes

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

Display mode	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; H.264B; MJPEG (Only supported by sub stream)
AI Coding	AI H.265; AI H.264 (Super AI Coding) *Includes smart codec technology, Smart H.265+ and Smart H.264+
Video Frame Rate	Max Resolution in O Mode by Default Main stream: 2560 × 2560@(1–25/30 fps) sub stream: 1440 × 1440@(1–25/30 fps) third stream: 1440 × 1440@(1–25/30 fps) Resolution of 2 Split Windows in 2P Mode: Sub stream: Panoramic View and Split Window: 1920 × 1440@(1–25/30 fps); 640 × 480@(1–25/30 fps); 320 × 240@(1–25/30 fps); third stream: Panoramic View and Split Window: 1920 × 1440@(1–25/30 fps); 640 × 480@(1–25/30 fps); 320 × 240@(1–25/30 fps); Resolution of 2 Split Windows in 2R Mode: Sub stream: Panoramic View and Split Window: 2560 × 960@(1–25/30 fps); 1280 × 480@(1–25/30 fps); 640 × 240@(1–25/30 fps); third stream: Panoramic View and Split Window: 2560 × 960@(1–25/30 fps); 1280 × 480@(1–25/30 fps); 640 × 240@(1–25/30 fps); Resolution of 4 Split Windows in 4R Mode: sub stream: Panoramic View and Split Window: 1920 × 1440@(1–25/30 fps); 640 × 480@(1–25/30 fps); 320 × 240@(1–25/30 fps); third stream: Panoramic View and Split Window: 1920 × 1440@(1–25/30 fps); 640 × 480@(1–25/30 fps); 320 × 240@(1–25/30 fps);
Streaming Capability	3 streams
Resolution	6M (2560 × 2560); 4M (2048 × 2048); 1.6M (1280 × 1280); 2M (1440 × 1440); 1M (1024 × 1024); (720 × 720); SVCD (480 × 480); 2.5M (2560 × 960); 1.5M (2048 × 768); 1.3M (1920 × 720); (1280 × 480); (640 × 240); (1280 × 480); (640 × 240); VGA (640 × 480); QVGA (320 × 240); 3M (2048 × 1536); 2.7M (1920 × 1440); XVGA (1024 × 768); UVGA (1600 × 1200)
Bit Rate Control	VBR;CBR;ABR
Video Bit Rate	H.264: 3 kbps–16384 kbps; H.265: 3 kbps–16384 kbps
Day/Night	Auto(ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	120 dB

Scene Self-adaptation (SSA)	Yes
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Gain Control	Auto/Manual
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (RoI)	Yes (4 areas)
Defog	Yes
Image Rotation	0°/180°
Mirror	Yes
Privacy Masking	4 mosaics + 4 color blocks (The color of the pure color block can be set as one, including red, orange, yellow, green, cyan, blue, purple and black. The set color will be applied to all color blocks.)

Audio

Built-in MIC	Yes, built-in dual Mic
Built-in Speaker	Yes, built-in speaker
Audio Compression	PCM; G.711a; G.711Mu; G.726

Alarm

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

Network Port	RJ-45 (10/100 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; P2P
Interoperability	ONVIF (Profile S & Profile G & Profile T & Profile M)
User/Host	20
Storage	FTP; SFTP; Micro SD card (support max. 1TB); NAS
Browser	IE: IE11; Chrome; Firefox
Management Software	Smart PSS Lite; DSS; DMSS; DoLynk Care
Security	Digest; WSSE; Account logout; Security logs; IP/MAC filtering; Generation and importing of X.509 certification; syslog; HTTPS; 802.1x; Trusted boot; Trusted execution; Trusted upgrade; Session security; Security warning

Certification

Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
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Port

RS-485	1 (baud rate range: 1200 bps–115200 bps)
Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	1 channel in: supports wet contact connection (max load 5 mA 3–5 VDC); supports dry contact connection
Alarm Output	1 channel out: wet contact, max load 300 mA 12 VDC

Power

Power Supply	12 VDC, 1 A; PoE (802.3af)
Dual Power Backup	When the power adapter and PoE provide power at the same time, disconnect one of them. The device will continue to work, but will not restart.
Power Consumption	Basic: 3 W (12 VDC); 4.4 W (PoE) Max (ICR switch + IR intensity): 7.6 W (12 VDC); 9.7 W (PoE)

Environment

Operating Temperature	–30 °C to +60 °C (–22 °F to +140 °F)
Operating Humidity	≤95% (RH), non-condensing
Storage Temperature	–30 °C to +60 °C (–22 °F to +140 °F)
Storage Humidity	≤95% (RH), non-condensing
Protection	IP67; IK10
Anti-corrosion Level	Basic Protection *The products are designed for general use and are applicable even in areas with no specific requirements for anti-corrosion protection.

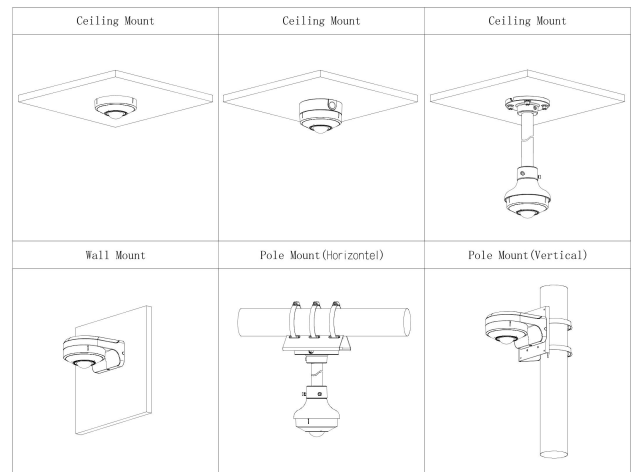
Structure

Casing Material	Metal + plastic
Product Dimensions	Φ122 mm × 53.3 mm (Φ4.80" × 2.10")
Net Weight	0.46 kg (1.01 lb)
Gross Weight	0.75 kg (1.65 lb)

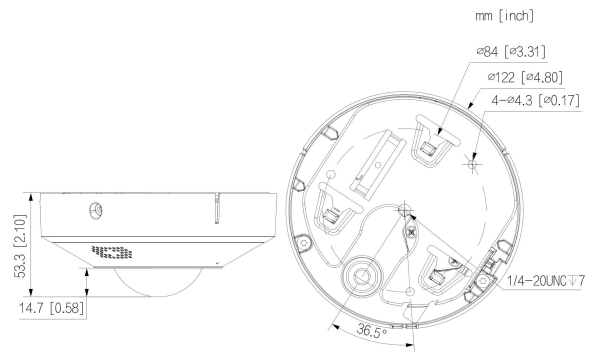
Ordering Information

Type	Model	Description
IP CAMERA	DH-IPC-EBW5641-AS	6MP IR Fisheye WizMind Network Camera

Type	Model	Description
Accessories (Optional)	DH-PFB220C	Ceiling Mount Bracket
	DH-PFA109	Mount Adapter
	DH-PFA150	Pole Mount Bracket
	DH-PFA156	Pole Mount Bracket
	DH-PFB2204W	Wall Mount Bracket
	DH-PFA137	Junction Box
	DH-PFM325D-1215EN	DC12V 1.5A Power Adapter
	DH-PFM320-020EN	DC12V 2A Power Adapter
	DH-PFM320D-EN	DC12V 2A Power Adapter
	PFM900-E	Integrated Mount Tester
	DHI-TF-P100/1TB	MicroSD Card



Dimensions (mm[inch])



Accessories

Optional:



DH-PFB220C
Ceiling Mount Bracket



DH-PFA109
Mount Adapter



DH-PFA150
Pole Mount Bracket



DH-PFA156
Pole Mount Bracket



DH-PFB2204W
Wall Mount Bracket



DH-PFA137
Junction Box



DH-PFM325D-1215EN
DC12V 1.5A Power
Adapter



DH-PFM320-020EN
DC12V 2A Power Adapter



DH-PFM320D-EN
DC12V 2A Power Adapter



PFM900-E
Integrated Mount Tester



DHI-TF-P100/1TB
MicroSD Card