DH-IPC-EBW81242

12MP IR Fisheye WizMind Network Camera

WizMind

- 12MP, 1/1.7"CMOS image sensor
- Max output 12MP (4000×3000)@30fps
- 3D NR,AWB,HLC, BLC,ROI, SVC, SMART H.264+/H.265+
- People counting in multiple areas, queuing management in multiple areas, heat map (number of people /time), and track map
- 2/2 Alarm in/out, 1/1 audio in/out
- 12V DC/POE power support
- IP67, IK10 protection

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.

Cyber Security

Dahua network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading the device.

Series Overview

With advanced chip and deep learning algorithm, AI Fisheye network camera supports many intelligent functions, including people counting in multiple areas, multiple queues management , heat map of number of people and average strand time.

Functions

People Counting

The camera detects and tracks target by using advanced image processing technology and deep learning algorithm. You can draw 4 ploygon areas, and count people in each area; When the number of the people in the area is greater than or equal to/lower than or equal to the defined threshold, the alarm will be triggered.

Queue Management

The camera detects and tracks target by using advanced image processing technology and deep learning algorithm. You can draw 4 ploygon areas, and count people in each area; When the number of the people in the area or the strand time is greater than or equal to/lower than or equal to the defined threshold, the alarm will be triggered.

Heat Map

It supports heat map of number of people and average strand time. You can observe customer's regions of interest from two aspects: number of people and time.

Technical Specification

Camera

Image Sensor	1/1.7"12Megapixel progressive CMOS
Max. resolution	4000 (H) × 3000 (V)
ROM	4 GB
RAM	4 GB
Illuminator Number	3 (IR LEDs)
Electronic Shutter Speed	1/3 s-1/100000 s (Auto/Manual)
Min. Illumination	0.01 Lux@F2.0(Color,30IRE) 0.001Lux@F2.0(B/W,30IRE) 0 lux (Illuminator on)
Illumination Distance	10 m (32.8 ft)
Scanning System	Progressive
Noise Reduction	3D NR
WDR	DWDR
S/N Ratio	> 56 dB
Gain control	Manual
White Balance	Auto/Natural/street lamp/outdoor/manual/regional Custom

Lens

Focal Length	1.85 mm
Mount Type	M12
Max. Aperture	F2.0
Aperture Type	Fixed aperture
Lens Type	Fixed focal
Field of View	Horizontal: 185°; Vertical: 180°

DORI Distance	Detect	Observe	Recognize	Identify
	40.0 m (131.3 ft)	16.0 m (52.6 ft)	8.0 m (26.3 ft)	4.0 m (13.1 ft)

Audio

Audio Input	1 channel (RCA port),1 build in MIC
Audio Output	1 channel (RCA port)
Audio Compression	G.711A, G.711Mu, G726

Video

Video Compression	H.265, H.264, H.264H, H.264B, MJPEG (only supported by the sub stream)
Smart Codec	Smart H.265+/ Smart H.264+
Video Bit Rate	H264: 88Kbps-16384Kbps ;H265: 52Kbps-16384Kbps
Video Frame Rate	50Hz Main Stream (4000 × 3000@25fps), sub Stream (704 × 576@25fps), third Stream (704 × 576@25fps) 60Hz Stream (4000 × 3000@30fps), sub Stream (704 × 480@30fps), third Stream (704 × 480@30fps) Fisheye: 1O (4000 x 3000) 1P (4096 x 1024) 2P (2432 x 2432) 1R (1216 x 1216) 2R (2432 x2432) 4R (2432 x 2432) 1O + 3R (2432 x 2432)

Resolution	4000 × 3000, 2880 × 2880, 2880 × 2160, 2048 × 1536 (3M), 1280 × 960 (1.3M), (704 × 576/704 × 480) D1, (352 × 288/352 × 240) CIF
Bit Rate Control	CBR/VBR
Region of Interest	Yes (4 areas)
Smart Illumination	Yes (Adjust by user)
Language	English, Italian, Spanish, Russian, French, German, Portuguese, Polish, Korean, Persian, Czech, Dutch, Arabic, European Spanish

Alarm

Alarm Input	2 channels (Wet contact, and it supports max potential 3V-5V)
Alarm Output	2 channels (Dry contact, and it supports max potential 30V)

Function

SD Card	Yes
Storage	FTP, Micro SD card (256 G)
Max User	20 (Total bandwidth: 240 M)
Browser	IE: IE11, IE10, IE9 Google of high version: 48.0.2564.116 Firefox of high version: 48.0.2 Non-plug edge: 42.17134.1.0
Privacy Masking	4 areas

Smart event

IVS Analyze	Intrusion, tripwire
Heat Map	Yes

Professional, intelligent

People Counting	People counting in 4 areas, number of people threshold alarm, 4 queue management, stranding alarm, number of people alarm, number of people heat map, average stranding heat map, track map and export (Report max range is 1 week.)

Network and port

Protocol	HTTP, TCP, ARP, RTSP, RTP, UDP, RTCP, SMTP, FTP, DHCP, DNS, DDNS, PPPoE, IPv4/v6, SNMP, QoS, UPnP, NTP
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
Interoperability	ONVIF (Profile S/Profile G),CGI

General

Power Supply	12V DC /PoE (802.3af)
Power Consumption	Basic power consumption: 6.2W (12V DC), 9.2W (POE) Max power consumption: (ICR switch, and IR full intensity): 9.2W (12V DC), 12.9W (POE)
Operating Conditions	-30°C to +45°C (-22°F to +113°F)/Less than 95% RH
Storage Conditions	-30°C to +70°C (-22°F to +158°F)
Protection Grade	IP67, IK10

Casing	Metal + Plastic
Dimensions	59.8 mm × Φ149.8 mm (2.35'' × Φ5.9'')
Net Weight	0.77 kg(1.70 lb)
Gross Weight	1.16 kg(2.56 lb)
Certification	CE-LVD:EN62368-1 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

Ordering Information

Type	Part Number	Description
Fisheye	DH-IPC-BW81242P	12MP IR Fisheye WizMind Network Camera
	DH-IPC-BW81242N	
	IPC-EBW81242P	
	IPC-EBW81242N	
Accessories (optional)	DH-PFA100	Adapting plate
	DH-PFA132-E	Junction Box
	DH-PFB302S	Wall-mount bracket
	DH-PFB300C	Celling-mount bracket

Accessories

Optional:

DH-PFA100
Adapting plate

DH-PFB300C
Celling-mount bracket

DH-PFA132-E
Junction Box

DH-PFB302S
Wall-mount bracket

Junction Box	Celling Mount	Wall Mount
PFA132-E	PFB300C+PFA100	PFB302S+PFA100

Dimensions (mm/inch)

59.7 [2.35]

∅150 [∅5.90]

∅90.0 [∅3.54]