

VKD MH9981PAI

12 MP HD AI Fisheye Network Camera



- 12MP, 1/1.7"CMOS image sensor
- Max output 12MP (4000×3000)@30fps
- 3D DNR,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

System 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 polygon 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 polygon 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” CMOS			
Effective Pixels	4000 (H) × 3000 (V)			
ROM	4 GB			
RAM	4 GB			
IR LEDs	3 (IR LEDs)			
Electronic Shutter Speed	1/3 s-1/100000 s (Auto/Manual)			
Min. Illumination	0.001 Lux/F2.0 (Clolor, 1/3 s, 30 IRE) 0.01 Lux/F2.0 (Clolor, 1/30 s, 30 IRE) 0.01 Lux/F2.0 (IR on)			
IR Distance	10 m (32.8 ft)			
Scan	Progressive			
Noise Reduction	3D DNR			
WDR	DWDR			
S/N Ratio	49.7dB			
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 Encoding	G.711A, G.711Mu, G726, AAC			
Video				
Video Encoding	H.265, H.264, H.264H, H.264B, MJPEG			
Video Bit Rate	H264: 88Kbps-16384Kbps ;H264: 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 IR				
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				
Network Protocol				
HTTP, TCP, ARP, RTSP, RTP, UDP, RTCP, SMTP, FTP, DHCP, DNS, DDNS, PPPoE, IPv4/v6, SNMP, QoS, UPnP, NTP				
Interoperability				
ONVIF (Profile S/Profile G), GB/T28181, CGI				
General				
Power Supply				
12V DC /POE				
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 Temperature				
-30°C to +45°C (-22°F to +113°F)				
Operating Humidity				
≤95%				
StrorageTemperature				
-30°C to +70°C (-22°F to +158°F)				
Strorage Humidity				
≤95%				
Protection Grade				
IP67, IK10				
Enclosure				
Metal + Plastic				

Dimensions	59.8 mm × Ø149.8 mm (2.35" × Ø5.9")
Net Weight	0.77 kg(1.70 lb)
Gross Weight	1.16 kg(2.56 lb)
Certification	CE-LVD:EN60950-1 EN 55032: 2015, Class B EN 61000-3-2: 2014 EN 61000-3-3: 2013 EN 55024: 2010+A1: 2015 EN 55035: 2017 EN 50130-4: 2011+A1: 2014 CE-EMC:Electromagnetic Compatibility Directive 2014/30/EU FCC:47 CFR FCC Part15, Subpart B, Class B UL/CUL:UL60950-1 CAN/CSA C22.2 No.60950-1-07

Accessories

Optional:



DH-PFA100
Adapting plate



DH-PFB300C
Wall-mount bracket



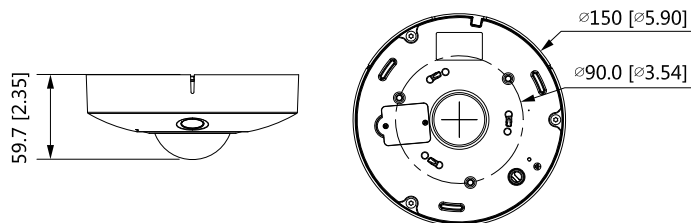
DH-PFB300S
Wall-mount bracket



DH-PFB302S
Hang-mount bracket

Ceiling Mount	Hang Mount	Wall Mount
	PFB300C+PFA100	PFB300S+PFA100

Dimensions (mm/inch)



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