



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.

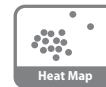
Heat Map

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.

Smart Codec

Smart codec is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

- 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
- Recording Failover
- Video Analysis
- IP Address locking system, after several (customizable) number of wrong access
- User access log cannot be deleted by reset
- Request function to create or change password at first login
- Micro SD memory (encryption AES128 or AES256)
- 2/2 Alarm in/out, 1/1 audio in/out
- 12V DC/POE power support
- IP67, IK10 protection



Panoramic

Panoramic cameras provide 180°, 360° full range of video scene, bringing people a new sense of real live and interactive experience. JBF provides two kinds of panoramic camera, single lens fisheye camera and multi-lens camera, both of them can offer 180-degree & 360-degree panoramic image. Through working together with PTZ camera which offer whole scene and region details at same time. It provided new surveillance experience to end user and improved the surveillance quality.

JBF-AS-12MP-IR

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 (Color, 1/3 s, 30 IRE) 0.01 Lux/F2.0 (Color, 1/30 s, 30 IRE) 0Lux/F2.0 (B/W, IR on)
IR Distance	10 m (32.8 ft)
Scan	Progressive
Noise Reduction	3D DNR
WDR	120dB
S/N Ratio	49.7dB
Gain control	Auto/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°,360° (ceiling mounting)			
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
Streaming Capability	3 Streams
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 x 2432) 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
Video Quality Adjustment	Multiple compression levels up to 6 levels
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
Event Trigger	Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly

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.)
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Network and port

Ethernet	RJ-45(10/100/1000Base-T)
Network Protocol	HTTP, HTTPs, TCP, ARP, RTSP, RTP, UDP, RTCP, SMTP, FTP, DHCP, DNS, DDNS, PPPoE, IPv4/v6, SNMP, QoS, UPnP, NTP, 802.1x
ONVIF	Version 21.06 rev. 6999, Profile S, Profile T, Profile G

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 +50°C (-22°F to +113°F)
Operating Humidity	≤95%

JBF-AS-12MP-IR

Storage Temperature	-30°C to +70°C (-22°F to +158°F)
Storage Humidity	≤95%
Protection Grade	IP67, IK10
Enclosure	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)

Accessories

Optional:



JBF-AS-FPA01
Adapting plate



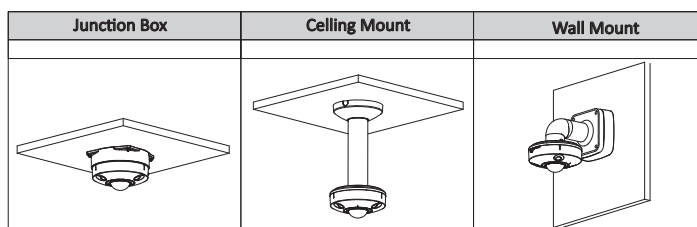
JBF-AS-FPB3C
Ceiling-mount bracket



JBF-AS-FPAE
Junction Box



JBF-AS-FPB32
Wall-mount bracket



Dimensions (mm/inch)

