· 1/2.8" 2Megapixel STARVIS™ CMOS

· Powerful 32x optical zoom

· Max. 50/60 fps@2M

· IR distance up to 150m

· Deep-learning-based auto tracking and perimeter protection

· SMD PLUS

· PoE+

· IP67, IK10

· Face Detection

· 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)

Launched by JBF Technology, is a series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on JBF's advanced technologies, provides intelligent, simple and inclusive products and solutions.

System Overview

Featuring powerful optical zoom and accurate pan/tilt/zoom performance, this camera provides an all-in-one solution for capturing long distance video surveillance for outdoor applications. Together with infrared illumination and Starlight Technology, the camera is the perfect solution for dark, lowlight applications. The series combines a day/night mechanical IR cut filter for the highest image quality in variable lighting conditions during the day, and True WDR for applications with direct sunlight or glare.

Functions

Perimeter Protection
Automatically filters out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets to improve alarm accuracy.

Starlight+ Technology
For challenging low-light applications, JBF's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.005 lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

PFA Technology
PFA technology has innovatively introduced new methods of judgment to ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms. PFA ensures clarity of the image throughout the process of zooming and shortens focus time. The realization of PFA technology substantially improves user experience and increases product value.

SMD PLUS
With Deep-Learning Algorithm, JBF SMD PLUS filters the motion detection alarm triggered by non-concerned target and recognizes human and vehicle effectively, sending alarms when human and vehicles intrude.

Wide Dynamic Range
The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, True WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Auto-tracking
This feature controls the pan/tilt/zoom actions of the camera to automatically track an object in motion and to keep it in the scene. The tracking action can be triggered manually or automatically by defined rules. Once a rule is triggered, the camera can zoom in and track the defined target automatically.

Smart H.265+
Smart H.265+ 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.

JBF-AS-2MP-PTZ-2

Technical Specification

Camera

Image Sensor	1/2.8" CMOS
Pixel	2 MP
Max. Resolution	1920 (H) × 1080 (V)
ROM	4 GB
RAM	1 GB
Electronic Shutter Speed	1/1 s–1/30,000 s
Scanning System	Progressive
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux (IR light on)
Illumination Distance	150 m (492.13 ft) (IR)
Illuminator On/Off Control	Zoom Prio; Manual; SmartIR
Illuminator Number	4 (IR)

Lens

Focal Length	4.8 mm–154 mm
Max. Aperture	F1.6–F4.0
Field of View	H: 58.44°–3.04°; V: 33.45°–1.71°; D: 66.45°–3.49°
Optical Zoom	32×
Focus Control	Auto; Semi-auto; Manual
Close Focus Distance	0.8 m–5.0 m (2.62 ft–16.40 ft)
Iris Control	Auto; Manual

DORI Distance	Detect	Observe	Recognize	Identify
	2,124 m (6,968.50 ft)	839 m (2,752.62 ft)	425 m (1,394.36 ft)	212 m (695.54 ft)

PTZ

Pan/Tilt Range	Pan: 0° to 360° endless Tilt: −15° to +90°, auto flip 180°
Manual Control Speed	Pan: 0.1°–300°/s Tilt: 0.1°–200°/s
Preset Speed	Pan: 400°/s; Tilt: 400°/s
Preset	400
Tour	8 (up to 32 presets per tour)
Pattern	5
Scan	5
Power-off Memory	Yes
Idle Motion	Preset; Pattern; Tour; Scan
PTZ Protocol	DH-SD Pelco-P/D (Auto recognition)

Intelligence

Smart Capture	Support human, motor vehicle and non-motor vehicle image capture.
IVS (Perimeter Protection)	Tripwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright lights, etc.
Face Detection	Yes
Auto Tracking	Yes
SMD PLUS	Yes

Video

Video Compression	Smart H.265+; H.265; Smart H.264+; H.264B; H.264M; H.264H; MJPEG (Sub Stream)
Streaming Capability	3 streams
Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576); CIF (352 × 288)
Video Frame Rate	Main stream: 2M/1.3M/720p (1–50/60 fps) Sub stream 1: D1/CIF (1–25/30 fps) Sub stream 2: 2M/1.3M/720p (1–25/30 fps)
Bit Rate Control	CBR; VBR
Video Bit Rate	H.264: 3 kbps–20480 kbps H.265: 3 kbps–20480 kbps
Day/Night	Auto (ICR); Color; B/W
BLC	Yes
WDR	120 dB
HLC	Yes
White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Gain Control	Auto; Manual
Noise Reduction	2D NR; 3D NR
Motion Detection	Yes
Region of Interest (RoI)	Yes
Image Stabilization	EIS
Defog	Electronic
Digital Zoom	16×
Image Rotation	180°
Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view
S/N Ratio	≥ 55 dB

Audio

Audio Compression	G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; G723

Network

Network Port	RJ-45 (10/100 Base-T)
Network Protocol	HTTP; HTTPS; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; IPv6; 802.1x; QoS; FTP; UPnP; ICMP; SNMP; SNMP v1/v2c/v3 (MIB-2); IGMP; ARP; RTCP; RTP; PPPoE; RTMP; TCP
ONVIF	Version 21.06 rev. 6999, Profile S, Profile T, Profile G
Streaming Method	Unicast; Multicast

JBF-AS-2MP-PTZ-2

User/Host	20 (total bandwidth: 64 M)
Storage	FTP; Micro SD card (512 GB); NAS
Browser	IE: IE7 and later Chrome: 42 and earlier Firefox: 52 and earlier Safari
Management Software	Smart PSS; DSS; DMSS; Easy4ip; IVSS
Mobile Client	iOS; Android

Certification

Certifications	CE-LVD: EN 62368-1 CE-EMC: EN55032: 2015/EN61000-3-2; 2019/ EN61000-3-3: 2013+A1: 2019 /EN50130-4: 2011/A1:2014/EN55024: 2010/A1: 2015/ EN55035: 2017 FCC: CFR 47 FCC Part15, Subpart B

Port

Two-way Audio	Yes
Alarm Linkage	Capture; preset; tour; pattern; recording; triggering on-off value output; audio; sending email
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection; power exception detection
Alarm I/O	2/1
Audio I/O	1/1

Power

Power Supply	24 VAC, 3 A (± 25%) PoE+ (802.3at)
Power Consumption	Basic: 13 W Max.: 22 W (illuminator + PTZ working)

Environment

Operating Temperature	−40 °C to +70 °C (−40 °F to +158 °F)
Operating Humidity	≤ 95%
Protection	IP67; IK10; TVS 6000 V lightning proof; surge protection; voltage transient protection

Structure

Product Dimensions	331.9 mm × Φ190.4 mm (13.07" × Φ7.50")
Net Weight	4.7 kg (10.36 lb)
Gross Weight	8 kg (17.64 lb)

Accessories

Included:

JBF-AS-FPB5W
Wall Mount Bracket

JBF-AS-24V3A
Power Adapter

Optional:

JBF-AS-FPASG
Mount Adapter

JBF-AS-FPA4
Power Box

BF-AS-FPB3C
Ceiling Mount Bracket

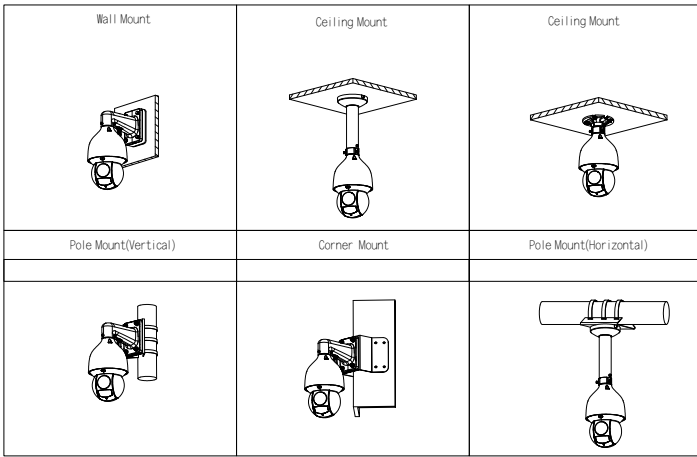JBF-AS-FPA12
Junction Box

JBF-AS-FPA5
Pole Mount Bracket

JBF-AS-FPA-15
Corner Mount Bracket

JBF-AS-FPB-3
Parapet Mount Bracket

Wall Mount	Ceiling Mount	Ceiling Mount
Pole Mount(Vertical)	Corner Mount	Pole Mount(Horizontal)

Dimensions (mm[inch])

Φ46.8 [Φ1.84]

331.9 [13.07]

Φ190.4 [Φ7.50]

SR77.0 [SR3.03]

JBF