JBF-AS-2MP-PTZ-2

2MP 32x Starlight IR Network PTZ Camera





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.

- · 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)











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.

| Vision | Technical Specification | | IVS (Perimeter Protection) | Tripwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering |
|--|----------------------------|---|----------------------------|---|
| Pixel 2 MP | Camera | | | false alarms caused by animals, rustling leaves, bright |
| Max. Renalation | Image Sensor | 1/2.8" CMOS | Face Detection | Yes |
| ROM | Pixel | 2 MP | Auto Tracking | Yes |
| Each | Max. Resolution | 1920 (H) × 1080 (V) | SMD PLUS | Yes |
| Section Shutter Speed 1/1 - 1/30,000 Section Streaming Capability Streaming Capability Streaming Capability Autronomy Autrono | ROM | 4 GB | Video | |
| Streaming System | RAM | 1 GB | Video Compression | |
| Scanning System Promissive Color to 000 Suc@E1.6 SW1 0000 | Electronic Shutter Speed | 1/1 s-1/30,000 s | Streaming Capability | |
| Min. Illumination SW O0005 kmgFil. | Scanning System | Progressive | | 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × |
| Illuminator On/Off Control | Min. Illumination | B/W: 0.0005 lux@F1.6 | | Main stream: 2M/1.3M/720p (1–50/60 fps) |
| | Illumination Distance | 150 m (492.13 ft) (IR) | | |
| Lens | Illuminator On/Off Control | Zoom Prio; Manual; SmartIR | Bit Rate Control | CBR; VBR |
| Back See | Illuminator Number | 4 (IR) | Video Bit Rate | · |
| Max. Aperture | Lens | | Day/Night | Auto (ICR); Color; B/W |
| Field of View H: 58.44"–3.04", V: 33.45"–1.71", D: 66.45"–3.49" Optical Zoom 32× White Balance Auto, Indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp Gain Control Auto, Semi-auto; Manual Close Focus Distance O. 8 m–5.0 m (2.62 ft–16.40 ft) Detect Observe Recognize Identify 2,124 m 393 m 425 m 721 m 76,6685.50 ft) (2,752.62 ft) (1,394.36 ft) (695.54 ft) PTZ Defog Electronic Pan: O'to 360" encless Tit: -15' to +90", auto flip 180" Manual Control Speed Pan: 01"–300"/s Tit: 0.1"–200"/s Tit: 0.1"–200"/s Tit: 0.1"–200"/s Preset 400 S/N Ratio 2 55 dB Audio Audio Pattern 5 San 5 Network Power-off Memory Yes Network Port RI-45 (10/100 Base-T) Network Protocol Process Recognition) Network Protocol Process Process Recognition Process Recognition HLC Yes Auto, Manual Auto, Manual Auto, Manual Noise Reduction Auto, Manual Noise Reduction Ves Region of Interest (RoI) Ves Region | Focal Length | 4.8 mm-154 mm | BLC | Yes |
| Optical Zoom 32x | Max. Aperture | F1.6-F4.0 | WDR | 120 dB |
| Pocus Control Auto; Semi-auto; Manual Gain Control Auto; Manual Gain Control Auto; Manual Control | Field of View | H: 58.44°–3.04°; V: 33.45°–1.71°; D: 66.45°–3.49° | HLC | Yes |
| Focus Control Auto; Semi-auto; Manual Gain Control Auto; Manual | Optical Zoom | 32× | White Balance | |
| Detect | Focus Control | Auto; Semi-auto; Manual | Gain Control | |
| Detect Observe Recognize Identify 2,124 m 839 m 425 m (695.54 ft) PTZ Pan/Tilt Range Pan: 0° to 360° endless Tilt: -15° to 90°, auto flip 180° Preset Speed Pan: 400°/s; Tilt: 400°/s Preset 400 Preset 400 Region of Interest (Rol) Image Stabilization EIS Defog Electronic Defog Electronic 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 Tour 8 (up to 32 presets per tour) Audio Audio Pattern 5 Scan 5 Network Port R-J-5 (10/100 Base-T) Idle Motion Preset; Pattern; Tour; Scan DH-SD Pelco-P/D (Auto recognition) Intelligence Motion Detection Yes Region of Interest (Rol) Yes Region of Interest (Rol) Network Port Rejon of Interest (Rol) Yes Region of Interest (Rol) Network Region of Interest (Rol) Yes Image Stabilization EIS Defog Electronic Iso 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 Audio Audio Compression G.711a; G.711Mu; G.726; MPEG2-Layer2; G.722.1; G.726; G.7 | Close Focus Distance | 0.8 m-5.0 m (2.62 ft-16.40 ft) | Noise Reduction | 2D NR; 3D NR |
| DORI Distance 2.124 m | Iris Control | Auto; Manual | Motion Detection | Yes |
| 2,124 m (6,968.50 ft) (2,752.62 ft) (1,394.36 ft) (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 Pattern 5 Audio Audio Compression 5 Network Power-off Memory Yes Image Stabilization EIS Defog Electronic 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 2 55 dB Tour Audio Audio Audio Audio Compression G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; G729 Scan 5 Network Network Power-off Memory Yes Network Port RJ-45 (10/100 Base-T) HTTP; HTTPS; IPV4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DNNS; IPV6; 802.1x; QoS; FTP; UPNP; ICMP; SNMP; SNMP y1/v2c/v3 (MIB-2); IGMP, ARP, RTCP; RTP; PPP6; RTMP; TCP Intelligence Smart Capture Support human, motor vehicle and non-motor vehicle | DORI Distance | Detect Observe Recognize Identify | Region of Interest (RoI) | Yes |
| 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 4 400 S/N Ratio ≥55 dB Tour 8 (up to 32 presets per tour) Audio Pattern 5 Audio Compression Freyer Sean Frower-off Memory Yes Network Prover Protocol Preset; Pattern; Tour; Scan DH-SD Pelco-P/D (Auto recognition) Intelligence 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 Audio Audio Audio Audio Compression G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; G723 Network Network Network Port RJ-45 (10/100 Base-T) HTTP; HTTPS; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; IPv6; 802.1x; QoS; FTP; UPPP; ICMP; SNMP; SN | BOM Distance | | Image Stabilization | EIS |
| Pan/ Filt Range 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 S/N Ratio S/N Ratio Audio Audio Pattern 5 Audio Compression Foreward Memory Yes Network Network Preset; Pattern; Tour; Scan DH-SD Pelco-P/D (Auto recognition) Image Rotation 180° 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 G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; G723 Network Network Network Network Port RJ-45 (10/100 Base-T) HTTP; HTTPS; IPv4, RTSP; UDP; SMTP; NTP; DHCP; DNS; DNS; IPv6; 802.1x; QoS; FTP; UPnP; ICMP; SMP; SMP y1/v2c/v3 (MIB-2); IGMP; ARP; RTCP; RTP; PPPoE; RTMP; TCP Intelligence ONVIF Version 21.06 rev. 6999, Profile S, Profile T, Profile G | PTZ | | Defog | Electronic |
| Manual Control Speed Tilt: 0.1°–200°/s Preset Speed Pan: 400°/s; Tilt: 400°/s Preset 400 S/N Ratio ≥ 55 dB Tour 8 (up to 32 presets per tour) Audio Audio Compression Freset Scan 5 Network Power-off Memory Yes Network Port Idle Motion Preset; Pattern; Tour; Scan DH-SD Pelco-P/D (Auto recognition) Intelligence Smart Capture Support human, motor vehicle and non-motor vehicle Privacy Masking Privacy Masking Up to 24 areas can be set, with up to 8 areas in the same view STATE Capture Privacy Masking Up to 24 areas can be set, with up to 8 areas in the same view Spin Capture Network Masking Privacy Masking Up to 24 areas can be set, with up to 8 areas in the same view Spin Capture Network Protocol Privacy Masking Up to 24 areas can be set, with up to 8 areas in the same view Spin Capture Network Protocol Privacy Masking Up to 24 areas can be set, with up to 8 areas in the same view Spin Capture Network Protocol Privacy Masking Up to 24 areas can be set, with up to 8 areas in the same view Spin Capture Spin Capture Network Protocol | Pan/Tilt Range | | Digital Zoom | 16× |
| Preset Speed Pan: 400°/s; Tilt: 400°/s Preset 400 S/N Ratio ≥ 55 dB Tour 8 (up to 32 presets per tour) Audio Pattern 5 Audio Compression Forze; G722; G722.1; G729; G723 Scan 5 Network Power-off Memory Yes Network Port Idle Motion Preset; Pattern; Tour; Scan PTZ Protocol DH-SD Pelco-P/D (Auto recognition) Intelligence Support human, motor vehicle and non-motor vehicle Privacy Masking Up to 24 areas can be set, with up to 8 areas in the same view SfN Ratio ≥ 55 dB Audio G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; G723 Support Layer2; G722.1; BH-SD DNetwork Network Port RJ-45 (10/100 Base-T) HTTP; HTTPS; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DNS; IPv6; 802.1x; QoS; FTP; UPnP; ICMP; SNMP; SNMP v1/v2c/v3 (MIB-2); IGMP; ARP; RTCP; RTP; PPPDE; RTMP; TCP PPDE; RTMP; TCP Smart Capture Support human, motor vehicle and non-motor vehicle | Manual Control Speed | | Image Rotation | 180° |
| Tour 8 (up to 32 presets per tour) Audio Audio Compression Audio Compression G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; G723 Scan 5 Network Power-off Memory Yes Network Port RJ-45 (10/100 Base-T) Idle Motion Preset; Pattern; Tour; Scan PTZ Protocol DH-SD Pelco-P/D (Auto recognition) DH-SD Pelco-P/D (Auto recognition) Intelligence ONVIF Version 21.06 rev. 6999, Profile S, Profile T, Profile G | Preset Speed | | Privacy Masking | |
| Pattern 5 Audio Compression G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; G723 Scan 5 Network Power-off Memory Yes Network Port RJ-45 (10/100 Base-T) Idle Motion Preset; Pattern; Tour; Scan HTTP; HTTPS; IPV4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; IPV6; 802.1x; QoS; FTP; UPnP; ICMP; SNMP; SNMP, SNMP v1/v2c/v3 (MIB-2); IGMP; ARP; RTCP; RTP; PPOE; RTMP; TCP Intelligence ONVIF Version 21.06 rev. 6999, Profile S, Profile T, Profile G | Preset | 400 | S/N Ratio | ≥ 55 dB |
| Scan 5 Network Power-off Memory Yes Network Port RJ-45 (10/100 Base-T) Idle Motion Preset; Pattern; Tour; Scan 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; PPOE; RTMP; TCP Intelligence ONVIF Version 21.06 rev. 6999, Profile S, Profile T, Profile G | Tour | 8 (up to 32 presets per tour) | Audio | |
| Scan 5 Network Power-off Memory Yes Network Port RJ-45 (10/100 Base-T) Idle Motion Preset; Pattern; Tour; Scan 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; PPOE; RTMP; TCP Intelligence ONVIF Version 21.06 rev. 6999, Profile S, Profile T, Profile G Smart Centure | Pattern | 5 | Audio Compression | |
| Power-off Memory Yes Network Port RJ-45 (10/100 Base-T) Idle Motion Preset; Pattern; Tour; Scan PTZ Protocol DH-SD Pelco-P/D (Auto recognition) Intelligence ONVIF Network Protocol Network Protocol RJ-45 (10/100 Base-T) 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 | Scan | 5 | Network | G725, G725 |
| Idle Motion Preset; Pattern; Tour; Scan DH-SD Pelco-P/D (Auto recognition) Preset; Pattern; Tour; Scan Network Protocol Notype DNS; DNNS; IPv4; RTSP; UDP; SMTP; NTP; DHCP; SNMP; SNMP v1/v2c/v3 (MIB-2); IGMP; ARP; RTCP; RTP; PPPOE; RTMP; TCP Version 21.06 rev. 6999, Profile S, Profile T, Profile G Smart Capture | Power-off Memory | Yes | | RJ-45 (10/100 Base-T) |
| PTZ Protocol DH-SD Pelco-P/D (Auto recognition) Network Protocol DNS; DDNS; IPv6; 802.1x; QoS; FTP; UPnP; ICMP; SNMP; SNMP v1/v2c/v3 (MIB-2); IGMP; ARP; RTCP; RTP; PPPoE; RTMP; TCP Intelligence ONVIF Version 21.06 rev. 6999, Profile S, Profile T, Profile G Smart Centure | Idle Motion | Preset; Pattern; Tour; Scan | | |
| Smart Canture Support human, motor vehicle and non-motor vehicle | PTZ Protocol | | Network Protocol | DNS; DDNS; IPv6; 802.1x; QoS; FTP; UPnP; ICMP; SNMP; SNMP v1/v2c/v3 (MIB-2); IGMP; ARP; RTCP; RTP; |
| | Intelligence | | ONVIF | Version 21.06 rev. 6999, Profile S, Profile T, Profile G |
| | Smart Capture | | Streaming Method | Unicast; Multicast |

| 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-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



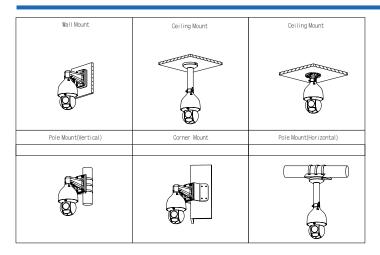
JBF-AS-FPA5 Pole Mount Bracket



JBF-AS-FPA-15 Corner Mount Bracket



JBF-AS-FPB-3 Parapet Mount Bracket



Dimensions (mm[inch])

