**JBF**

- 640x512 VOx uncooled thermal sensor technology
- Athermalized Lens (thermal), Focus-free
- Support Fire detection & alarm
- 2/2 alarm in/out
- Video tampering
- Micro SD memory, IP67, PoE 802.3at
- Video Analysis
- IP67, IK10
- 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)

## System Overview

Featuring a fixed lens bullet camera, this series provides an all-in-one solution that is especially beneficial for long distance video surveillance in outdoor applications. Together with Thermal technology, the camera's long range capabilities are able to be utilized even at night.

40mK | Fire Detection | Analysis | PoE | IP67

### Environmental

With a temperature range of -40 °C to +70 °C (-40 °F to +158 °F), the camera is designed for extreme temperature environments. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications.

### Protection

IP67; IK10; The camera allows for ±15% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning.

## Functions

### Uncooled Vox Technology

JBF thermal cameras use uncooled Vox sensor technology. Their small size and better performance make them a cost-effective solution for thermal security.

### High Sensitivity

High thermal sensitivity (<40mK) allows cameras to capture more image details and temperature difference information.

### Fire Detection & Alarm

With built-in fire detection functionality, the camera has the ability to detect fires from long range. Because thermal cameras are sensitive to temperature, they provide higher fire detection accuracy than standard cameras, making them particularly fit for applications such as forest fire prevention.

### Intelligent Video System (IVS)

IVS is a built-in video analytics algorithm that delivers intelligent functions to monitor a scene for tripwire violations, intrusion detection, and abandoned or missing objects. A camera with IVS quickly and accurately responds to monitoring events in a specific area.

# JBF-AS-NTNBC (13)

## Technical Specification

### Thermal Camera

| | |
|---|---|
| Image Sensor | Uncooled VOx Microbolometer |
| Effective Pixels | 640(H)x512(V) |
| Pixel Size | 17um |
| Thermal Sensitivity(NETD) | 40mK |
| Spectral Range | 8~14um |
| Image Setting | Brightness/Sharpness/ROI/AGC/FFC/3D DNR |
| Color Palettes | 18(Whitehot/Blackhot/Ironrow/Icefire/ Fusion/Rainbow/Globow/Iconbow1/ Iconbow2 .etc) |

### Thermal Lens

| | |
|---|---|
| Lens Type | Fixed/F1.0 |
| Focus Control | Athermalized, Focus-free |
| Focal Length | 13mm |
| Angle of View | H: 48.9° V: 38.8° |
| Effective Distance① Man(1.8m*0.5m) | D: 382m R: 98m I: 49m |
| Effective Distance Vehicle(4m*1.4m) | D: 850m R: 219m I: 109m |

### Video

| | |
|---|---|
| Compression | H.265 / H.264 / MJPEG |
| Frame Rate | Main Stream: Thermal: 1280x1024 / 720P / 640x512 @25/30fps |
| | Sub Stream: Thermal: 640x512 / 320x256 @25/30fps |
| Bit Rate Control | CBR/VBR |
| Bit Rate | H.264: 640 ~ 8192Kbps |
| Motion Detection | Off/On (4 zone, Rectangle) |
| Region of Interest | Off/On (4 zone) |
| Electronic Image Stabilization (EIS) | NA |
| Digital Zoom | 4x(24 levels) |
| Flip | 180° |
| Mirror | Off/On |
| Privacy Masking | Off/On (4 area, Rectangle) |

### Audio

| | |
|---|---|
| Compression | G.711A / G.711Mu / AAC / PCM |

### Intelligence

| | |
|---|---|
| IVS | Tripwire, Intrusion |
| Advanced Intelligent Functions | Fire detection & alarm, Cold/Hot spot trace, Human/Vehicle classification |

### Network

| | |
|---|---|
| Ethernet | RJ-45 |
| Protocol | IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x |
| ONVIF | Version 21.06 rev. 6999, Profile S, Profile T, Profile G |
| Streaming Method | Unicast/Multicast |
| Max. User Access | 10 Users/20 Users |
| Edge Storage | Micro SD (256GB) Memory status display (Normal / Error / Active / Formatting / Lock), NAS (Network Attached Storage), Local PC for instant recording |
| Web Viewer | >IE8, <Chrome42, <Firefox42 |
| Management Software | JSW |

### Certifications

| | |
|---|---|
| Certification | CE (EN 60950: 2000)  FCC (FCC Part 15 SubpartB ) |

### Interface

| | |
|---|---|
| Video Interface | 1 Port (CVBS/BNC) |
| Audio Interface | 1/1  In/Out |
| RS485 | Support |
| Alarm | 2/2 In/Out |

### Electrical

| | |
|---|---|
| Power Supply | DC 12V/PoE 802.3at |
| Power Consumption | Max. 13W |

### Environmental

| | |
|---|---|
| Operating Condition | -40°C ~ +70°C (-40°F ~ +158°F)/Less than 95% RH * Start up should be done at above-40°C (-40°F) |
| Storage Conditions | -40°C ~ +70°C (-40°F ~ +158°F)/Less than 95% RH |
| Protection | IP67; IK10 |

### Construction

| | |
|---|---|
| Casing | Metal |
| Dimensions | 291mm× 103mm× 97mm (11.46" x 4.06" x 3.82") |
| Net Weight | 1.5Kg (3.31 lb) |
| Gross Weight | 1.9Kg (4.19 lb) |

Note:
①Effective distance values shown are nominal values and should be used as estimates only. Exact value calculations depend on a wide variety of conditions.
②D: Detection Distance
③R: Recognition Distance
④I: Identification Distance
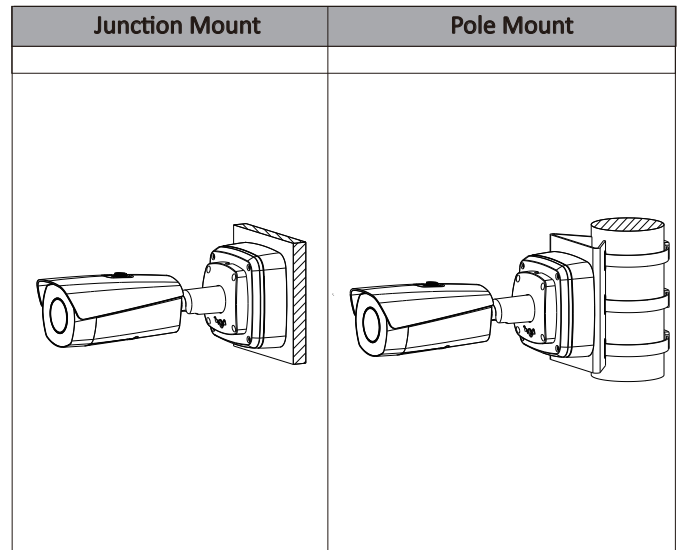
## Accessories

Optional :



JBF-AS-FPA21
Junction box



JBF-AS-FPA5E
Pole Mount



JBF-AS-FPA21
Angular bracket

## Mounting Type

| Junction Mount | Pole Mount |
|---|---|
|  |  |

## Dimensions(mm)



291.0[11.46"]
192.5[7.58"]

103.8[4.09"]
97.2[3.83"]

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