



# EPC-BSTB8070

## Bi-Spectrum Bullet

### Features

- 256 × 192 resolution, 12 μm, VOx UFPA, NETD ≤ 50 mK
- Lens Options: Thermal – 3.5mm/7mm/10mm fixed; Visible – 4mm/8mm fixed
- Detection Capabilities: Human/vehicle, smoker, smoke & flame, fire point detection
- Intelligent Analytics: Intrusion, single/double line crossing, loitering, wrong-way, people counting, enter/leave area detection, smart motion detection
- Support 3 temperature measurement rule types (spot, line, area)
- Temperature Monitoring & Alarm: -20°C to 150°C (-4°F to 302°F), Accuracy: ±2°C / ±2%
- Built-in speaker and strobe light; supports sound-light alarm
- Smart IR range up to 35m/50m
- Support I/O alarm, RS485, built-in SD card slot
- Power Supply: DC12V/DC24V, PoE

## Technical Specification

### Thermal Camera

|                     |                                                       |                                  |
|---------------------|-------------------------------------------------------|----------------------------------|
| Image Sensor        | Vanadium Oxide Uncooled Focal Plane Arrays            |                                  |
| Resolution          | 256(H) × 192(V) , Image can be scaled up to 704 × 576 |                                  |
| Pixel Pitch         | 12μm                                                  |                                  |
| Spectral Range      | 8 to 14μm                                             |                                  |
| NETD                | ≤ 50mK                                                |                                  |
| Lens Type           | Fixed                                                 |                                  |
| Focal Length        | 7mm, 10mm optional                                    |                                  |
| Max. Aperture       | F1.0                                                  |                                  |
| Focus Control       | Fixed focal                                           |                                  |
| Field of View (FOV) | 7 mm: H: 24°, V: 18°                                  | 10 mm: H: 17°, V: 13° (Optional) |
| AI Multi-Target     | Fixed focal                                           |                                  |

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### Technical Specification

#### Thermal Camera

|                      |                                                                                                                                                                                                                |                         |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| Intelligent Analysis | Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way, Enter area, Leave area, smart motion detection (these function support accurate detection of human or vehicles) , People counting |                         |
| Smoker Detection     | Support                                                                                                                                                                                                        |                         |
| Fire Spot Detection  | Support                                                                                                                                                                                                        |                         |
| People Counting      | Support                                                                                                                                                                                                        |                         |
| Main Stream          | Thermal: D1 (704×576) @25/30fps                                                                                                                                                                                |                         |
| Sub Stream           | Thermal: D1, CIF, 256×192 @25/30fps                                                                                                                                                                            | Optical: D1, VGA @25fps |
| Bit Rate Control     | CBR/VBR                                                                                                                                                                                                        |                         |
| Bit Rate             | Main Stream: Thermal: 100Kbps to 3Mbps<br>Sub Stream: Thermal: 10Kbps to 3Mbps                                                                                                                                 |                         |
| Smart Encode         | Support                                                                                                                                                                                                        |                         |
| Audio Compression    | G.711 A-law, G.711 $\mu$ -law, RAM PCM                                                                                                                                                                         |                         |
| Image Setting        | Brightness, Sharpness, Contrast, Saturation                                                                                                                                                                    |                         |
| Mirror               | Horizontal / Vertical / Horizontal+Vertical                                                                                                                                                                    |                         |
| Pseudo-color Setting | Up to 17 colors (White-hot / Black-hot / Rainbow / Iron red / HSV / Bone / Cool / Copper / Fire-hot / Pink / Spring / Summer / Autumn / Winter / Jet / Flame / Rose -Bengal)                                   |                         |
| FFC Control          | Auto/Manual                                                                                                                                                                                                    |                         |
| Noise Reduction      | 2D/3D DNR                                                                                                                                                                                                      |                         |
| Privacy Masking      | Up to 4 areas                                                                                                                                                                                                  |                         |
| OSD                  | Up to 8 OSD                                                                                                                                                                                                    |                         |

#### General

|                       |                                                                                                        |
|-----------------------|--------------------------------------------------------------------------------------------------------|
| Temperature Range     | -20°C to 150°C (-4°F to 302°F)                                                                         |
| Accuracy              | ±2°C / ±2%                                                                                             |
| Temperature Detection | 3 temperature measurement rule types, 20 rules in total, 1 full screen, 19 others (spot, areas, line). |

### Technical Specification (General)

|                                  |                                                                                                                                   |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Temperature Display              | Display in the lower left corner; follow the cursor display of the highest temperature, lowest temperature or average temperature |
| Image Fusion                     | Over temperature alarm, Temperature difference alarm                                                                              |
| Alarm Triggers                   | $\pm 2^{\circ}\text{C}$ / $\pm 2\%$                                                                                               |
| Alarm Events                     | $\leq 30\text{ms}$                                                                                                                |
| Protocols                        | IPv4/IPv6, HTTP/HTTPS, DNS, DDNS, DHCP, PPPOE, RTSP/RTP/RTCP, TCP/UDP, NTP, ARP, UPnP, FTP, SMTP, QoS, 802.1x, SNMP, Multicast    |
| Compatible Integration           | ONVIF (Profile S/T/G/M), CGI, SDK                                                                                                 |
| User/Host Level                  | Up to 10 users, 3 levels: Administrator, Operator, Media user                                                                     |
| Security                         | IP address filter, encrypted HTTPS, Illegal login lock, IEEE 802.1x                                                               |
| Web Viewer                       | <IE11, Chrome, Firefox, Microsoft Edge                                                                                            |
| Network Interface                | 1 Ethernet (10/100 Base-T) RJ-45 Connector                                                                                        |
| Audio Interface                  | 1ch input, 1ch output                                                                                                             |
| Built-in Speaker                 | Support                                                                                                                           |
| Alarm Interface                  | 2ch input, 2ch output                                                                                                             |
| RS-485                           | Support                                                                                                                           |
| Reset Button                     | Support                                                                                                                           |
| SD Card Slot                     | Support, up to 512GB                                                                                                              |
| Web Language                     | English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian.<br>Default: English                    |
| Power Supply                     | 12 VDC/24 VDC/PoE (802.3af)                                                                                                       |
| Power Consumption                | Max. 12W                                                                                                                          |
| Working Temperature and Humidity | -40°C to 60°C (-40°F to 140 °F) Less than 90% RH                                                                                  |

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## Bi-Spectrum Bullet

### Technical Specification (General)

|                    |                                  |
|--------------------|----------------------------------|
| Ingress Protection | IP66                             |
| Material           | Metal                            |
| Dimensions         | 303mm (L) × 95mm (W) × 107mm (H) |
| Net Weight         | 1.35 Kg (2.98 lb)                |

#### Visible Camera

|                           |                                                                                                                                                                                                                |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor              | 1/2.7" CMOS                                                                                                                                                                                                    |
| Resolution                | 2880(H) × 1620(V)                                                                                                                                                                                              |
| Shutter Speed             | 1/5 to 1/20,000s                                                                                                                                                                                               |
| Lens Type                 | Fixed                                                                                                                                                                                                          |
| Min. Illumination         | Color: 0.05Lux @(F1.6, AGC ON), B/W: 0.005Lux @(F1.6, AGC ON), 0Lux with IR                                                                                                                                    |
| Focal Length              | 4 mm (optional) , 8 mm                                                                                                                                                                                         |
| Max. Aperture             | F1.6/F2.0                                                                                                                                                                                                      |
| Focus Control             | Fixed focal                                                                                                                                                                                                    |
| Field of View (FOV)       | 4 mm: H: 92°, V: 46°      8 mm: H: 40°, V: 20°                                                                                                                                                                 |
| AI Multi-Target           | Human and vehicle detection                                                                                                                                                                                    |
| Intelligent Analysis      | Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way, Enter area, Leave area, smart motion detection (these function support accurate detection of human or vehicles) , People counting |
| Smoke and Flame Detection | Support                                                                                                                                                                                                        |
| Fire Spot Detection       | Support                                                                                                                                                                                                        |
| People Counting           | Support                                                                                                                                                                                                        |
| Main Stream               | 2880×1620, 2560×1440, 2304×1296, 1920×1080, 1280×720 @25fps                                                                                                                                                    |
| Sub Stream                | D1, VGA @25fps                                                                                                                                                                                                 |
| Bit Rate Control          | CBR/VBR                                                                                                                                                                                                        |
| Bit Rate                  | Main Stream: 100Kbps to 12Mbps<br>Sub Stream: 10Kbps to 6Mbps                                                                                                                                                  |

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## Bi-Spectrum Bullet

|                    |                                                                       |
|--------------------|-----------------------------------------------------------------------|
| Smart Encode       | Support                                                               |
| Audio Compression  | G.711 A-law, G.711 $\mu$ -law, RAM PCM                                |
| Image Setting      | Brightness, Sharpness, Contrast, Saturation                           |
| Mirror             | Horizontal / Vertical / Horizontal+Vertical                           |
| Gain Control       | Auto/Manual                                                           |
| White Balance      | Auto / Tungsten / Fluorescent / Daylight / Shadow                     |
| Day/Night          | Day mode / Night mode / Time                                          |
| Noise Reduction    | 2D/3D DNR                                                             |
| Image Enhancement  | WDR, HLC, BLC                                                         |
| Wide Dynamic Range | True WDR 120dB                                                        |
| OSD                | Up to 8 OSD                                                           |
| Privacy Masking    | Up to 4 areas                                                         |
| Illuminator        | IR Range: -4 mm: Up to 35m (114.83 ft.) -8 mm: Up to 50m (164.04 ft.) |

## Thermal DRI Range Table

| Lens                               | 7 mm              | 10 mm                |
|------------------------------------|-------------------|----------------------|
| Detection Distance (Humans)        | 292 m (958.0 ft)  | 417 m (1,368.1 ft)   |
| Detection Distance (Vehicles)      | 894 m (2933.1 ft) | 1,278 m (4,192.9 ft) |
| Recognition Distance (Humans)      | 73 m (239.5 ft)   | 104 m (341.2 ft)     |
| Recognition Distance (Vehicles)    | 224 m (734.9 ft)  | 319 m (1,046.5 ft)   |
| Identification Distance (Humans)   | 36 m (118.1 ft)   | 52 m (170.6 ft)      |
| Identification Distance (Vehicles) | 112 m (367.5 ft)  | 160 m (524.9 ft)     |

## Thermal Smart Detection Range Table

| Lens                                        | 7 mm               | 10 mm              |
|---------------------------------------------|--------------------|--------------------|
| VCA Detection Distance (Humans)             | 60 m (196.9 ft)    | 103 m (337.9 ft)   |
| VCA Detection Distance (Vehicles)           | 70 m (229.7 ft)    | 230 m (754.6 ft)   |
| Temperature Measurement (Object : 1x1m)     | 116.7 m (382.9 ft) | 166.7 m (546.9 ft) |
| Temperature Measurement (Object : 0.2x0.2m) | 23.3 m (76.4 ft)   | 33.3 m (109.3 ft)  |
| Fire Detection (Object: 0.2 × 0.2 m)        | 58.3 m (191.3 ft)  | 83.3 m (273.3 ft)  |
| Smoking Detection                           | 25 m (82 ft)       | 40 m (131.2 ft)    |

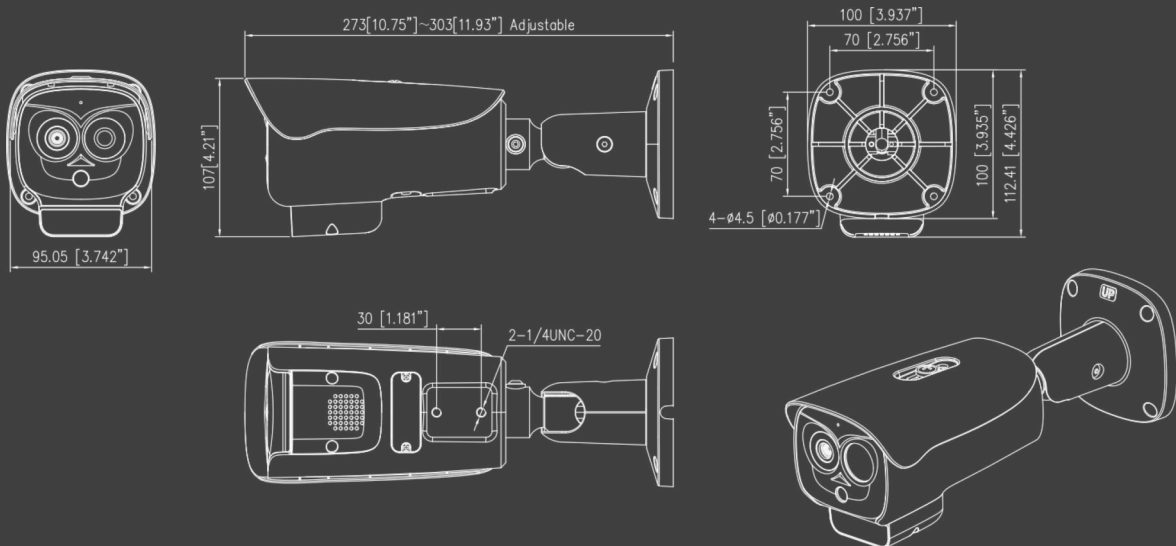
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Bi-Spectrum Bullet

## Optical DORI Range Table

| Lens      | 4mm                | 8mm                 |
|-----------|--------------------|---------------------|
| Detect    | 85.4 m (280.18 ft) | 150.4 m (493.44 ft) |
| Observe   | 34.2 m (112.20 ft) | 60.2 m (197.51 ft)  |
| Recognize | 17.1 m (56.10 ft)  | 30.1 m (98.75 ft)   |
| Identify  | 8.5 m (27.89 ft)   | 15.0 m (49.21 ft)   |

## Dimension



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Bi-Spectrum Bullet

## Accessories - Optional



EP-CBK645G - Junction Box



EP-CBK101A - Pole Mount



EP-CBK102A - Corner Mount

### Ordering Information

|              |                              |
|--------------|------------------------------|
| EPC-BSTB8070 | Entrypass Bi-Spectrum Bullet |
| EP-CBK645G   | Junction Box                 |
| EP-CBK101A   | Pole Mount                   |
| EP-CBK102A   | Corner Mount                 |



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