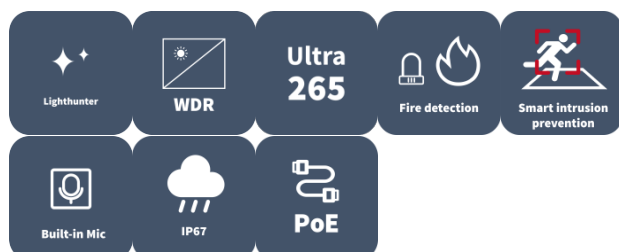


# Thermal & Optical Bi-spectrum Network Bullet Camera TIC2A32SA-F7-4F6AC-I1



## Features

- Thermal & optical dual-spectrum image, dual video with single IP address, adaptable to more various scenes
- 1/2.8" target surface, high sensitivity sensor, suitable for starlight monitoring
- Thermal module supports reliable fire detection and fire shield area
- Thermal module supports temperature detection and cold&hot spot tracking, which highlights abnormal temperatures and links to alarm
- Thermal & optical dual-spectrum smart intrusion prevention can be enabled simultaneously : cross line, enter area, leave area, intrusion
- Optical module supports smog recognition, which can help with fire alarm reconfirmation
- Supports picture-in-picture mode, real-time contrast live, more convenient and clear
- Supports audio and light alarm, with red and blue warning lights built in
- Ultra 265, H.265, H.264, MJPEG
- Max 2688 × 1520@30 fps in the optical module and max 960P@30 fps in the thermal module
- DC 12 V ± 25% or PoE power supply
- Alarm 2 in and 2 out, audio 1 in and 1 out, micro SD, up to 512 GB

## Specifications

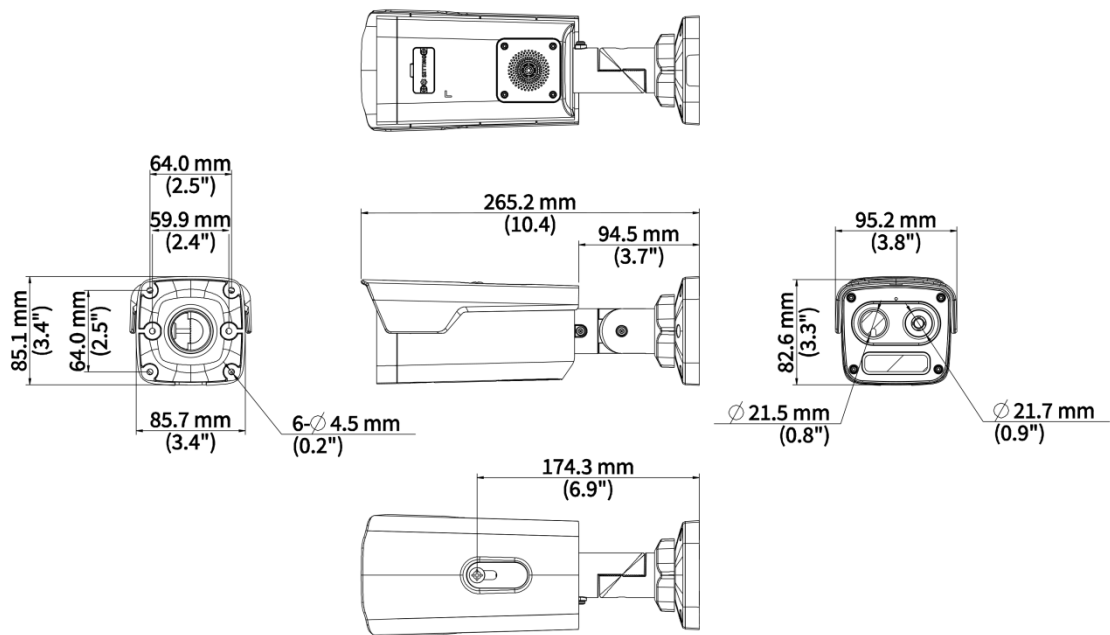
| Channel             | Optical | Thermal   |
|---------------------|---------|-----------|
| Camera              |         |           |
| Original Resolution | N/A     | 256 × 192 |

|                            |                                                                                 |  |                                            |  |
|----------------------------|---------------------------------------------------------------------------------|--|--------------------------------------------|--|
| Sensor                     | 1/2.8" CMOS                                                                     |  | Vanadium oxide uncooled focal plane arrays |  |
| Min. Illumination          | Colour: 0.003 lux (F1.6, AGC ON)                                                |  | N/A                                        |  |
|                            | B/W: 0.002 lux(F1.6,AGC ON)                                                     |  |                                            |  |
|                            | 0 lux with IR                                                                   |  |                                            |  |
| Day/Night                  | IR-cut filter with auto switch (ICR)                                            |  | N/A                                        |  |
| Pixel Size                 | N/A                                                                             |  | 12 um                                      |  |
| NETD                       | < 50 mk@F1.0@25 °C                                                              |  |                                            |  |
| Shutter                    | Auto/Manual, 1 to 1/100000 s                                                    |  |                                            |  |
| WDR                        | 120 dB                                                                          |  |                                            |  |
| S/N                        | >56 dB                                                                          |  |                                            |  |
| Lens                       |                                                                                 |  |                                            |  |
| Focal Length               | 6.0 mm                                                                          |  | 7 mm                                       |  |
| Iris                       | F1.6                                                                            |  | F1.0                                       |  |
| Field of View (H)          | 49.1°                                                                           |  | 25.2°                                      |  |
| Field of View (V)          | 26.9°                                                                           |  | 19.3°                                      |  |
| Field of View (D)          | 60.4°                                                                           |  | 31.0°                                      |  |
| DORI                       |                                                                                 |  |                                            |  |
| DORI Distance (Detect)     | 135.0m(442.9ft)                                                                 |  | N/A                                        |  |
| DORI Distance (Observe)    | 54.0m(177.2ft)                                                                  |  | N/A                                        |  |
| DORI Distance (Recognize)  | 27.0m(88.6ft)                                                                   |  | N/A                                        |  |
| DORI Distance (Identify)   | 13.5m(44.3ft)                                                                   |  | N/A                                        |  |
| Illuminator                |                                                                                 |  |                                            |  |
| Wavelength                 | 750 nm                                                                          |  | N/A                                        |  |
| Illumination Distance (IR) | 50m                                                                             |  | N/A                                        |  |
| Light On/Off Control       | Auto/Manual                                                                     |  | N/A                                        |  |
| Video                      |                                                                                 |  |                                            |  |
| Frame Rate                 | 4MP(2688*1520), Max 30fps                                                       |  | 960P(1280*960), Max 30fps                  |  |
| Video Compression          | Ultra 265, H.265, H.264, MJPEG                                                  |  |                                            |  |
| Video Bit Rate             | 128 Kbps to 16 Mbps                                                             |  |                                            |  |
| U-code                     | Support                                                                         |  |                                            |  |
| ROI                        | Support                                                                         |  |                                            |  |
| Video Stream               | Triple streams                                                                  |  |                                            |  |
| OSD                        | Up to 8 OSDs                                                                    |  |                                            |  |
| Privacy Mask               | Up to 8 areas (8 blacks/ 8 mosaics)                                             |  | N/A                                        |  |
| Image                      |                                                                                 |  |                                            |  |
| White Balance              | Auto, Outdoor, Fine tune, Sodium lamp, Locked, Auto2                            |  | N/A                                        |  |
| Digital Noise Reduction    | 2D/3D DNR                                                                       |  |                                            |  |
| Flip                       | Normal, Flip vertical, 180°, Flip horizontal, 90° Clockwise, 90° Anti-clockwise |  |                                            |  |
| Defog                      | Digital defog                                                                   |  | N/A                                        |  |

|                                  |                                                                                                                                                                                      |                                                                                                                                                                                                 |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Palette                          | N/A                                                                                                                                                                                  | lava, medical, arctic, mazarine, fusion, rain, puce, white hot, iron oxide red, hot iron, rainbow 1, rainbow 2, rainbow 3, depict hot, ice hot, black hot, red hot, green hot, color 1, color 2 |
| Intelligent                      |                                                                                                                                                                                      |                                                                                                                                                                                                 |
| Smart Intrusion Prevention       | Cross line detection, intrusion detection, enter area detection, leave area detection (support false alarm filtering and the classification of human, non-motor vehicle and vehicle) | Cross line detection, intrusion detection, enter area detection, leave area detection (support false alarm filtering and the classification of human and vehicle)                               |
| Smoke Detection                  | Support                                                                                                                                                                              | N/A                                                                                                                                                                                             |
| Temperature Measurement Accuracy |                                                                                                                                                                                      | ±8 °C (±14.4 °F) or ±8% (whichever is greater)                                                                                                                                                  |
| Temperature Range                |                                                                                                                                                                                      | Selectable between -20 °C to 150 °C (-4 °F to 302 °F) and 100 °C to 550 °C (212 °F to 1022 °F)                                                                                                  |
| Events                           |                                                                                                                                                                                      |                                                                                                                                                                                                 |
| Fire Detection                   | N/A                                                                                                                                                                                  | Support                                                                                                                                                                                         |
| Basic Detection                  | Motion detection, Tampering alarm, Audio detection                                                                                                                                   | N/A                                                                                                                                                                                             |
| General Function                 | Watermark, IP address filtering, Access policy, ARP protection, RTSP authentication, User authentication, HTTP authentication, Alarm input, Alarm output                             |                                                                                                                                                                                                 |
| Audio                            |                                                                                                                                                                                      |                                                                                                                                                                                                 |
| Audio Compression                | G.711U, G.711A                                                                                                                                                                       |                                                                                                                                                                                                 |
| Audio Bitrate                    | 128 Kbps                                                                                                                                                                             |                                                                                                                                                                                                 |
| Two-way Audio                    | Support                                                                                                                                                                              |                                                                                                                                                                                                 |
| Suppression                      | Support                                                                                                                                                                              |                                                                                                                                                                                                 |
| Sampling Rate                    | 16KHZ                                                                                                                                                                                |                                                                                                                                                                                                 |
| Storage                          |                                                                                                                                                                                      |                                                                                                                                                                                                 |
| Edge Storage                     | MicroSD, up to 512 GB                                                                                                                                                                |                                                                                                                                                                                                 |
| Network Storage                  | ANR                                                                                                                                                                                  |                                                                                                                                                                                                 |
| Network                          |                                                                                                                                                                                      |                                                                                                                                                                                                 |
| Protocols                        | IGMP, RTP, SMTP, IPv4, IPv6, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTSP, RTCP, RTMP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, 802.1x, SNMP, QoS, SSL/TLS, SSH                             |                                                                                                                                                                                                 |
| Compatible Integration           | ONVIF (Profile S, Profile G, Profile T), API, SDK                                                                                                                                    |                                                                                                                                                                                                 |
| User/Host                        | Up to 32 users. 3 user levels: administrator, common user and operator                                                                                                               |                                                                                                                                                                                                 |
| Client                           | EZStation, UNV-Link, UNV-Link Pro                                                                                                                                                    |                                                                                                                                                                                                 |
| Web Browser                      | Plug-in required live view: IE 10+, Chrome 45+, Firefox 52+, Edge 79+                                                                                                                |                                                                                                                                                                                                 |
| Interface                        |                                                                                                                                                                                      |                                                                                                                                                                                                 |
| Built-in Mic                     | Support                                                                                                                                                                              |                                                                                                                                                                                                 |
| Built-in Speaker                 | Support                                                                                                                                                                              |                                                                                                                                                                                                 |
| Audio I/O                        | 1 Input: impedance 1 kΩ, amplitude 2.5 V [p-p], 1 Output: impedance 600 Ω, amplitude 2 V [p-p]                                                                                       |                                                                                                                                                                                                 |
| Alarm I/O                        | 2/2                                                                                                                                                                                  |                                                                                                                                                                                                 |

|                      |                                                                                                                                                                                                                                                                                     |                       |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Serial Port          | 1 × RS485                                                                                                                                                                                                                                                                           |                       |
| Network              | 1 × RJ45 10 M/100 M Base-TX Ethernet                                                                                                                                                                                                                                                |                       |
| Video Output         | N/A                                                                                                                                                                                                                                                                                 | 1 BNC (for debugging) |
| Certification        |                                                                                                                                                                                                                                                                                     |                       |
| EMC                  | CE-EMC (EN 55032: 2015+A1:2020,EN 61000-3-3: 2013+A1: 2019,EN IEC 61000-3-2: 2019+A1: 2021,EN 50130-4:2011+A1:2014)<br>FCC (FCC CFR 47 part15 B, ANSI C63.4-2014)                                                                                                                   |                       |
| Safety               | CE LVD (EN IEC 62368-1:2020+A11:2020)<br>UL (UL 62368-1, 2nd Ed., Issue Date: 2014-12-01)                                                                                                                                                                                           |                       |
| Environment          | CE-RoHS (2011/65/EU;(EU)2015/863); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)                                                                                                                                                                                          |                       |
| Protection           | IP67 (IEC 60529:1989+AMD1:1999+AMD2:2013)                                                                                                                                                                                                                                           |                       |
| General              |                                                                                                                                                                                                                                                                                     |                       |
| Power                | DC12V(±25%), PoE(IEEE802.3af)                                                                                                                                                                                                                                                       |                       |
| Power Consumption    | Max 12W                                                                                                                                                                                                                                                                             |                       |
| Power Interface      | Ø5.5 mm coaxial power plug                                                                                                                                                                                                                                                          |                       |
| Dimensions           | 269.1 x 95.7 x 85.4 mm (10.6" x 3.75" x 3.36" )(L x W x H)                                                                                                                                                                                                                          |                       |
| Weight               | 0.95kg(2.1lb)                                                                                                                                                                                                                                                                       |                       |
| Working Environment  | -40 °C to 70 °C (-40 °F to 158 °F), Humidity: ≤ 95% RH (non-condensing)                                                                                                                                                                                                             |                       |
| Storage Environment  | -40 °C to 70 °C (-40 °F to 158 °F), Humidity: ≤ 95% RH (non-condensing)                                                                                                                                                                                                             |                       |
| Surge Protection     | 6 KV                                                                                                                                                                                                                                                                                |                       |
| Reset Button         | Support                                                                                                                                                                                                                                                                             |                       |
| RTC                  | Support                                                                                                                                                                                                                                                                             |                       |
| Web Client Language  | 22 Languages: Traditional Chinese, English, Simplified Chinese, Polish, German, Russian, French, Korean, Dutch, Czech, Portuguese (Europe), Portuguese (Brazil), Japanese, Thai, Turkish, Spanish (Latin America), Spanish (Europe), Hungarian, Italian, Vietnamese, Arabic, Slovak |                       |
| Live View            |                                                                                                                                                                                                                                                                                     |                       |
| Maximum Bitstream    | 35                                                                                                                                                                                                                                                                                  |                       |
| Maximum Bandwidth    | 50 Mbps                                                                                                                                                                                                                                                                             |                       |
| OSD Font             | Vector                                                                                                                                                                                                                                                                              |                       |
| OSD Color            | Support                                                                                                                                                                                                                                                                             |                       |
| OSD Character Number | 40                                                                                                                                                                                                                                                                                  |                       |
| Other                |                                                                                                                                                                                                                                                                                     |                       |
| Corridor Mode        | Support                                                                                                                                                                                                                                                                             |                       |
| Software Version     | Q6202                                                                                                                                                                                                                                                                               |                       |

## Dimensions



## Accessories

### TR-UP06-B-IN

Bullet Pole Mounting Bracket



### TR-JB06-A-IN

Middle Bullet Junction Box(Elegant White)



### TR-UP06-C-IN

Pole Mounting Bracket for Bullet Junction Box Only



### TR-A01-IN

NPT 3/4" Waterproof Cable Gland



# Unlimited New View

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