

# Thermal & Optical Bi-spectrum Network Bullet Camera TIC2624S-F35-4F12AC-I3



## Features

- Thermal & Optical dual-spectrum image, dual video with single ip address, adaptable to more various scenes.
- The thermal imaging channel adopt instant image super-resolution.
- Original resolution is 400 × 300 .
- 1/2.7" CMOS, high sensitivity sensor, satisfy the need of starlight image.
- Thermal module support reliable fire detection, smoking detection and fire shield area .
- Thermal module supports temperature detection and cold&hot spot tracking,supports abnormal temperature alarm.
- Thermal & Optical dual-spectrum smart intrusion prevention: cross line, enter area, leave area, intrusion.
- Optical module supports smog recognition, which can help with fire alarm reconfirm.
- Support picture-in-picture mode, real-time contrast live, more convenient and clear .
- Support audio and light alarm, with red and blue warning lights built in.
- Ultra 265, H.265, H.264, MJPEG.
- Max 2688 × 1520@30fps in the optical module and max 1080P@30 fps in the thermal module.
- DC12 V±25% or PoE (IEEE802.3 at ) power supply.
- Alarm 3 in and 2 out, audio 2 in and 1 out, micro sd, up to 512 GB.
- Anti-corrosion design for stable protection (NEMA 4X).

## Specifications

| Channel                    | Optical  | Thermal                                    |
|----------------------------|--|--|
| <b>Camera</b>              |  |  |
| Max Resolution             | 4 MP   | 1080P                                      |
| Original Resolution        | N/A  | 400 × 300                                  |
| Sensor                     | 1/2.7" CMOS  | Vanadium oxide uncooled focal plane arrays |
| Min. Illumination          | Colour: 0.005 lux (F1.6, AGC ON)<br>B/W: 0.003 lux(F1.6,AGC ON)<br>0 lux with IR | N/A  |
| Day/Night                  | IR-cut filter with auto switch (ICR)   | N/A  |
| Pixel Size                 | N/A  | 12 um                                      |
| NETD                       | < 30 mk@F1.0@25 °C   |  |
| Shutter                    | Auto/Manual, 1 to 1/100000 s   |  |
| WDR                        | 120 dB   |  |
| S/N                        | >56 dB   |  |
| Case Type                  | Bullet   |  |
| <b>Lens</b>                |  |  |
| Focal Length               | 12mm   | 35mm                                       |
| Iris                       | F1.6   | F1.0                                       |
| Field of View (H)          | 24.5°  | 7.7°                                       |
| Field of View (V)          | 13.9°  | 5.8°                                       |
| Field of View (D)          | 30.1°  | 9.1°                                       |
| <b>DORI</b>                |  |  |
| DORI Distance (Detect)     | 270.0 m( 885.8 ft )  | N/A  |
| DORI Distance (Observe)    | 108.0 m( 354.4 ft )  | N/A  |
| DORI Distance (Recognize)  | 54.0 m( 177.2 ft )   | N/A  |
| DORI Distance (Identify)   | 27 m( 88.6 ft )  | N/A  |
| <b>Illuminator</b>         |  |  |
| Wavelength                 | 750 nm   | N/A  |
| Illumination Distance (IR) | 100m   | N/A  |
| Light On/Off Control       | Auto/Manual  | N/A  |
| <b>Video</b>               |  |  |
| Frame Rate                 | 4MP(2688*1520), Max 30fps  | 1080P(1920*1080), 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               | Five streams   |  |
| OSD                        | Up to 10 OSDs  |  |
| Privacy Mask               | Up to 8 areas (8 blacks/ 8 mosaics)  | N/A  |
| <b>Image</b>               |  |  |
| White Balance              | Auto, Outdoor, Fine tune, Sodium lamp,   | N/A  |

|   |  |   |
|---|--|---|
|   | Locked, Auto2  |   |
| Digital Noise Reduction                               | 2D/3D DNR  |   |
| Flip  | Normal, Flip vertical, Flip horizontal, 180°   |   |
| HLC   | Support  | N/A   |
| BLC   | Support  | N/A   |
| Defog   | Digital defog  | N/A   |
| Palette   | N/A  | lava, medical, fusion, arctic, mazarine, 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 |
| Low Illumination Characteristics                      | LightHunter  |   |
| <b>Intelligent</b>                                    |  |   |
| 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)                               |
| 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)   |   |
| Detection distance for personnel (1.8 × 0.5 meters)   | N/A  | 350m  |
| Detection distance for vehicles (4 × 1.4 meters)      | N/A  | 1050m   |
| <b>Events</b>   |  |   |
| 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                             |   |
| Detection distance for temperature (0.1 × 0.1 meters) | N/A  | 30m   |
| Detection distance for fire (0.1 × 0.1 meters)        | N/A  | 220m  |
| <b>Audio</b>  |  |   |
| Audio Compression                                     | G.711U, G.711A   |   |
| Audio Bitrate   | 128 Kbps   |   |
| Two-way Audio   | Support  |   |
| Suppression   | Support  |   |
| Sampling Rate   | 16KHZ  |   |
| <b>Storage</b>  |  |   |
| Edge Storage  | MicroSD, up to 512 GB  |   |
| Network Storage                                       | ANR  |   |
| <b>Network</b>  |  |   |

|                        |   |                       |
|------------------------|---|-----------------------|
| 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 M), SDK, API   |                       |
| 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+   |                       |
| <b>Interface</b>       |   |                       |
| Built-in Mic           | Support   |                       |
| Built-in Speaker       | Support   |                       |
| Audio I/O              | 2 Input: impedance 1 k $\Omega$ , amplitude 2.5 V [p-p], 1 Output: impedance 600 $\Omega$ , amplitude 2 V [p-p]   |                       |
| Alarm I/O              | 3/2   |                       |
| Serial Port            | 1 $\times$ RS485  |                       |
| Network                | 1 $\times$ RJ45 10 M/100 M Base-TX Ethernet   |                       |
| Video Output           | N/A   | 1 BNC (for debugging) |
| <b>Certification</b>   |   |                       |
| EMC                    | CE-EMC (EN 55032, EN 61000-3-3, EN IEC 61000-3-2, EN 50130-4)<br>FCC (FCC CFR 47 part15 B, ANSI C63.4-2014)   |                       |
| Safety                 | CE LVD (EN IEC 62368-1)<br>UL (UL 62368-1)  |                       |
| 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)   |                       |
| <b>General</b>         |   |                       |
| Power                  | DC12V ( $\pm$ 25%), PoE (IEEE802.3 at )   |                       |
| Power Consumption      | 22.4W   |                       |
| Power Interface        | $\varnothing$ 5.5 mm coaxial power plug   |                       |
| Dimensions             | 406.0 x 130.0 x 130.0 mm (16.0" x 5.1" x 5.1")(L x W x H)   |                       |
| Weight                 | 2.23kg  | 2.23 kg               |
| Working Environment    | -40 $^{\circ}$ C to 70 $^{\circ}$ C (-40 $^{\circ}$ F to 158 $^{\circ}$ F), Humidity: $\leq$ 95% RH (non-condensing)  |                       |
| Storage Environment    | -40 $^{\circ}$ C to 70 $^{\circ}$ C (-40 $^{\circ}$ F to 158 $^{\circ}$ F), Humidity: $\leq$ 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 |                       |
| <b>Live View</b>       |   |                       |
| Maximum Bitstream      | 35  |                       |
| Maximum Bandwidth      | 50 Mbps   |                       |
| Plugin Free            | Support   |                       |
| OSD Font               | Vector  |                       |
| OSD Color              | Support   |                       |
| OSD Character Number   | 40  |                       |

|               |         |
|---------------|---------|
| Other         |         |
| Corridor Mode | Support |

## DRI Description

The optimal detection, recognition, and identification distances are calculated according to Johnson's Criteria.

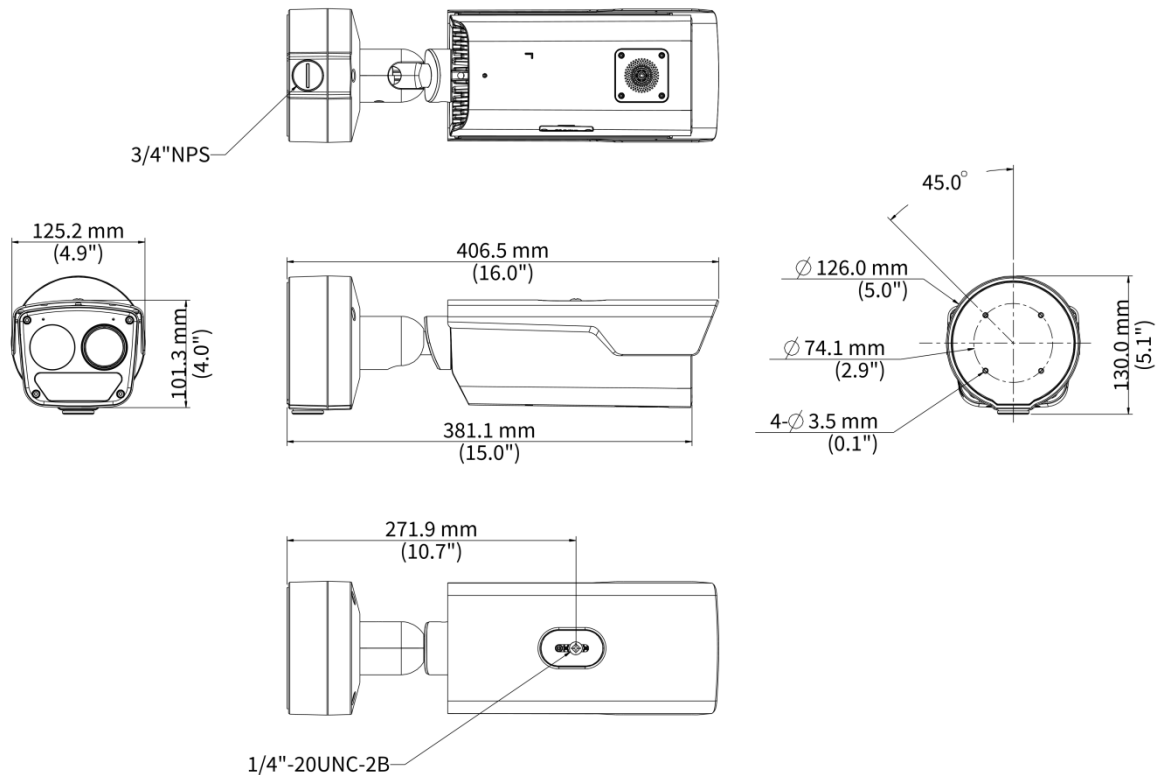
Detection Range: In order to distinguish an object from the background, the object must be covered by 1.5 or more pixels.

Recognition Range: In order to classify the object (animal, human, vehicle, etc), the object must be covered by 6 or more pixels.

Identification Range: In order to identify the object and describe it in details, the object must be covered by 12 or more pixels.

| Lens | Detection Range (Vehicles: 4.0 × 1.4 m) | Detection Range (Humans: 1.8 × 0.5 m) | Recognition Range (Vehicles: 4.0 × 1.4 m) | Recognition Range (Humans: 1.8 × 0.5 m) | Identification Range (Vehicles: 1.4 × 4.0 m) | Identification Range (Humans: 1.8 × 0.5 m) |
|------|---|---------------------------------------|---|---|--|--|
| 10mm | 750m                                    | 370m                                  | 200m                                      | 100m                                    | 130m   | 60m  |
| 25mm | 1900m                                   | 950m                                  | 490m                                      | 240m                                    | 330m   | 160m                                       |
| 35mm | 2500m                                   | 1250m                                 | 690m                                      | 340m                                    | 460m   | 230m                                       |

## Dimensions



## Accessories

### TR-UP06-C-IN-V2

Pole Mounting Bracket for Bullet Junction  
Box Only



### TR-UC08-C-V2

Bullet&Dome Corner Mounting Bracket



# Unlimited New View

浙江宇视科技有限公司



<http://www.uniview.com>



[overseasbusiness@uniview.com](mailto:overseasbusiness@uniview.com); [globalsupport@uniview.com](mailto:globalsupport@uniview.com)



South Tower, Building 10, Wanlun Science Park, 88 Jiangling Road, Hangzhou, P.R.China



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