

# TVTH-S01-0003-BUL-G

**TruVision IP thermal bullet camera, 256 × 192, 9.7 mm lens, 4MP Visible Light Camera**

## Overview

---

TruVision S series IP thermal Cameras is the answer for demanding customers to detect unwanted activities in difficult weather or light conditions. The thermal IP camera line-up is accessible and offers advanced features to ensure precision for your customer's optimal security.

The cameras go above and beyond standard motion detection with enhanced alarm capabilities, including cross line detection, intrusion detection and region entrance/exit features. With its smart person/vehicle feature the camera can ignore irrelevant motion or VCA events which will automatically lead to less storage consumption and faster retrieval of relevant video events.

TruVision S series IP thermal Cameras utilize H.265 and/or H.264 compression technology with triple-streaming capability, making it easy to manage the camera's bandwidth usage. Recording to a local MicroSD card (not included) protects data in the event of network disruptions.

TruVision S series IP thermal Cameras can be used in combination with a variety of TruVision recording platforms, as well as any third party platform using ONVIF connectivity.

## Why choose the S series of thermal IP cameras?

---

Our new range of thermal cameras can be integrated in the full Aritech ecosystem. With the recorders, the network products, TruVision Navigator, it completes the full Carrier security network.



## Details

---

- Bi-Spectral (thermal and optical)
- Uncooled thermal sensor
- 4MP Optical camera (side by side)
- H.265 compression
- Intelligent VCA human and vehicle detection
- Long range object detection
- IP66 rating for outdoor installation
- Embedded analytics for perimeter protection application
- PoE support
- SD card support for edge recording
- ONVIF Profile G, S, T open standards

TVTH-S01-0003-BUL-G

TruVision IP thermal bullet camera, 256 × 192, 9.7 mm lens, 4MP Visible Light Camera

Technical specifications

General

|                        |                                                                      |
|------------------------|----------------------------------------------------------------------|
| Technology             | IP Thermal                                                           |
| OSD                    | Picture Overlay, Text Overlay                                        |
| Image settings         | Mirror, OSD, OSD with custom text overlays, ROI (Region Of Interest) |
| Video output           | BNC Composite PAL / NTSC                                             |
| Software compatibility | TruVision Navigator, TVRmobile, Web Browser                          |

Camera

|                               |                                            |
|-------------------------------|--------------------------------------------|
| Sensor size                   | 1/2.7"                                     |
| Sensor scan                   | Progressive                                |
| Sensor type                   | CMOS                                       |
| Total Pixels (H x V)          | 256 x 192                                  |
| Effective pixels (H x V)      | 2688 x 1520                                |
| Shutter time                  | 1 s to 1/100,000 s                         |
| Image sensor                  | Vanadium Oxide Uncooled Focal Plane Arrays |
| IFOV                          | 1.24 mrad                                  |
| Pixel Interval                | 12 μm                                      |
| NETD                          | ≤ 40 mK (25°C), F1.0                       |
| Minimum focal distance        | 1.5 m                                      |
| Maximum detection range       | up to 1239 m (vehicle) / 404 m (human)     |
| Maximum recognition range     | up to 310 m (vehicle) / 101 m (human)      |
| Maximum identification range  | up to 155 m (vehicle) / 50 m (human)       |
| VCA Range for Vehicles        | up to 203 m (4.0 x 1.4 m)                  |
| VCA Range for Humans          | up to 76 m (1.8 x 0.5 m)                   |
| Temperature Measurement Range | up to 161 m (1 x 1 m)                      |
| Temperature Measurement Range | up to 32 m (0.2 x 0.2 m)                   |

Lighting performance

|                         |                                                                        |
|-------------------------|------------------------------------------------------------------------|
| WDR                     | 120 dB                                                                 |
| Day/night               | True Day/Night                                                         |
| Motorized IR cut filter | Yes                                                                    |
| Color sensitivity       | Color: 0.0089 Lux @ (F2.25, AGC ON), B/W: 0.0035 Lux @ (F2.25, AGC ON) |
| IR range                | Up to 30 m                                                             |

Encoding

|                          |                                                                        |
|--------------------------|------------------------------------------------------------------------|
| Video streams            | 2                                                                      |
| Main stream compression  | H.264, H.265                                                           |
| Sub stream compression   | H.264, H.265, MJPEG                                                    |
| Third stream compression | H.264, H.265, MJPEG                                                    |
| Main stream resolutions  | 1280 x 720 (XVGA), 320 x 240 (QVGA), 640 x 480 (VGA), 704 x 576 (4CIF) |
| Sub stream resolutions   | 320 x 240 (QVGA), 640 x 480 (VGA), 704 x 576 (4CIF)                    |
| Max. resolution @ fps    | 1280 × 720 @ 25 fps                                                    |

Lens

|              |                                                                                     |
|--------------|-------------------------------------------------------------------------------------|
| Lens type    | Fixed                                                                               |
| Focal length | Thermal: 9.7 mm, FoV 18.0 × 13.5° (H × V) / Optical: 8 mm, FoV 39.4 × 22.1° (H × V) |
| f-stop       | 1.0                                                                                 |

Network

|                             |                                                                                                                     |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------|
| Integration                 | ONVIF, ONVIF Profile G, ONVIF Profile S, ONVIF Profile T                                                            |
| Supported network protocols | 802.1x, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMP, IPv4, IPv6, NTP, PPPoE, QoS, RTP, RTSP, SMTP, SNMP, TCP, UDP |

Audio

|                   |                                                                                       |
|-------------------|---------------------------------------------------------------------------------------|
| Audio compression | G.711a, G.711u, G.722, G.726                                                          |
| Audio in          | 1 Mic in/Line in interface, line input: 2 to 2.4 V[p-p]; output impedance: 1 kΩ, ±10% |
| Audio out         | 1 Audio output interface, line level, impedance: 600 Ω                                |

Alarm I/O

|               |                                                                                                                                                                                       |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alarm inputs  | 2                                                                                                                                                                                     |
| Alarm outputs | 2                                                                                                                                                                                     |
| Visual Alarm  | Yes. White light flashing alarm                                                                                                                                                       |
| Audio alarm   | Yes, for two types of audible alarm (VCA and Temperature Exception). 2 preset voice alerts (one for each). 6 importable user-defined voice alerts (6 options shared in the two types) |

Storage

|                       |                    |
|-----------------------|--------------------|
| Local storage support | Yes                |
| Local storage type    | Micro SD/SDHC/SDXC |
| Max. SD card capacity | Up to 128 GB       |

Video intelligence

|                         |                                                                                                               |
|-------------------------|---------------------------------------------------------------------------------------------------------------|
| Smart event             | Intrusion detection, Line crossing detection, Region entrance detection, Region exiting detection             |
| Intelligence options    | VCA human and vehicle detection                                                                               |
| VCA                     | 4 VCA rule types (line crossing, intrusion, region entrance, and region exiting), up to 8 VCA rules in total. |
| Temperature Measurement | 3 temperature measurement rule types, 21 rules in total (10 points, 10 areas, and 1 line)                     |
| Temperature Range       | -20 to 150°C                                                                                                  |
| Temperature Accuracy    | ± 8°C                                                                                                         |

Electrical

|                   |                                  |
|-------------------|----------------------------------|
| Operating voltage | 12 VDC<br>PoE (802.3af, class 3) |
| Power consumption | 7 W (max.)                       |

Physical

|                     |                    |
|---------------------|--------------------|
| Physical dimensions | 321 x 106 x 107 mm |
| Net weight          | 1.55 kg            |
| Colour              | Grey               |
| Form Factor         | Bullet             |

# TVTH-S01-0003-BUL-G

TruVision IP thermal bullet camera, 256 × 192, 9.7 mm lens, 4MP Visible Light Camera

## Environmental

|                       |                    |
|-----------------------|--------------------|
| Vandal proof          | Yes                |
| Impact rating         | IK10               |
| Environment           | Indoor, Outdoor    |
| Operating temperature | -40 to +65°C       |
| Relative humidity     | <90% noncondensing |
| IP rating             | IP67               |

## Regulatory

|            |                                      |
|------------|--------------------------------------|
| Compliance | CE, cUL, REACH, RoHS, UKCA, UL, WEEE |
|------------|--------------------------------------|

## Accessories

|                                 |
|---------------------------------|
| Back Box (included with camera) |
|---------------------------------|

## Compatible products

| Category          | Reference | Description                                                           |
|-------------------|-----------|-----------------------------------------------------------------------|
| Brackets & Mounts | TVD-M-CMA | TruVision Corner Mount Adaptor for TVD-SNB (or TVC-IP Bullet Cameras) |



As a company of innovation, Kidde Global Solutions reserves the right to change product specifications without notice. For the latest product specifications, visit [firesecurityproducts.com](https://firesecurityproducts.com) online or contact your sales representative.

Last updated on 12 September 2024 - 17:17