

## DATASHEET



## TVTH-S01-0002-TUR-G

TruVision IP thermal turret camera

## MAIN FEATURES

- TruVision IP thermal turret camera
- 256 × 192
- 3.1 mm lens
- 4MP Visible Light Camera

## TECHNICAL SPECIFICATIONS

## Power supply

|                   |                              |
|-------------------|------------------------------|
| Operating voltage | 12 VDCPoE (802.3af. class 3) |
| Power consumption | 7 W (Max.)                   |

## Inputs / outputs

|                  |                          |
|------------------|--------------------------|
| Video output     | BNC Composite PAL / NTSC |
| output impedance | 1KΩ, ±10%                |
| Alarm inputs     | 1                        |
| Alarm outputs    | 1                        |

## Physical characteristics

|                     |                                                                        |
|---------------------|------------------------------------------------------------------------|
| Sensor size         | 1/2.7"                                                                 |
| Color sensitivity   | Color: 0.0176 Lux @ (F2.25, AGC ON), B/W: 0.0035 Lux @ (F2.25, AGC ON) |
| Physical dimensions | 138.3 x 138.3 x 123.1 mm                                               |
| Net weight          | 940 g                                                                  |
| Colour              | Grey                                                                   |

## Environmental characteristics

|                               |                                                                                           |
|-------------------------------|-------------------------------------------------------------------------------------------|
| Temperature Measurement Range | up to 58 m (1 x 1 m)                                                                      |
| 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                                                                                     |

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### TECHNICAL SPECIFICATIONS

|                              |                                                                                       |
|------------------------------|---------------------------------------------------------------------------------------|
| Environment                  | Indoor, Outdoor                                                                       |
| Operating temperature        | -40 to +65°C                                                                          |
| Relative humidity            | <90% noncondensing                                                                    |
| IP rating                    | IP66                                                                                  |
| Other characteristics        |                                                                                       |
| Technology                   | IP Thermal                                                                            |
| OSD                          | Picture Overlay, Text Overlay                                                         |
| Image settings               | Mirror, OSD, OSD with custom text overlays, ROI (Region Of Interest)                  |
| Software compatibility       | TruVision Navigator, TVRmobile, Web Browser                                           |
| 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                         | 3.33 mrad                                                                             |
| Pixel Interval               | 12 µm                                                                                 |
| NETD                         | ≤40 mK (25°C), F1.1                                                                   |
| Minimum focal distance       | 0.4 m                                                                                 |
| Maximum detection range      | up to 460 m (vehicle) / 150 m (human)                                                 |
| Maximum recognition range    | up to 112 m (vehicle) / 38 m (human)                                                  |
| Maximum identification range | up to 56 m (vehicle) / 19 m (human)                                                   |
| VCA Range for Vehicles       | up to 75 m (4.0 x 1.4 m)                                                              |
| VCA Range for Humans         | up to 28 m (1.8 x 0.5 m)                                                              |
| WDR                          | 120 dB                                                                                |
| Day/night                    | True Day/Night                                                                        |
| Motorized IR cut filter      | Yes                                                                                   |
| IR range                     | Up to 15 m                                                                            |
| Video streams                | 2                                                                                     |
| Main stream compression      | H.264, H.265                                                                          |
| Sub 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 x 720 @ 25 fps                                                                   |
| Lens type                    | Fixed                                                                                 |
| Focal length                 | Thermal: 3.6 mm, FoV 50.0 × 37.3° (H × V) / Optical: 4.3 mm, FoV 84.0 × 43.1° (H × V) |

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### TECHNICAL SPECIFICATIONS

|                             |                                                                                                                                                                                          |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| f-stop                      | f1.0                                                                                                                                                                                     |
| 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 compression           | G.711a, G.711u, G.722, G.726                                                                                                                                                             |
| Audio in                    | 1 Mic in/Line in interface, line input: 2-2.4V[p-p]                                                                                                                                      |
| Audio out                   | 1 Audio output interface, line level, impedance: 600Ω                                                                                                                                    |
| Visual Alarm                | Yes. White light flashing alarm                                                                                                                                                          |
| Audio alarm                 | Yes, for two types of audible alarm (VCA and Temperature Exception).<br>2 preset voice alerts (one for each). 6 importable user-defined voice alerts (6 options shared in the two types) |
| Local storage support       | Yes                                                                                                                                                                                      |
| Local storage type          | Micro SD/SDHC/SDXC                                                                                                                                                                       |
| Max. SD card capacity       | Up to 128GB                                                                                                                                                                              |
| 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.                                                                            |
| Form Factor                 | Turret                                                                                                                                                                                   |
| Compliance                  | CE, cUL, REACH, RoHS, UKCA, UL, WEEE                                                                                                                                                     |
| Category                    | Reference                                                                                                                                                                                |
| Brackets & Mounts           | TVD-BB3                                                                                                                                                                                  |