

DATASHEET

TVTH-S01-0003-BUL-G

TruVision IP thermal bullet camera

MAIN FEATURES

- TruVision IP thermal bullet camera
- 256 × 192
- 9.7 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	1 k Ω , $\pm$ 10%
Alarm inputs	2
Alarm outputs	2

Physical characteristics

Sensor size	1/2.7"
Color sensitivity	Color: 0.0089 Lux @ (F2.25, AGC ON), B/W: 0.0035 Lux @ (F2.25, AGC ON)
Physical dimensions	321 x 106 x 107 mm
Net weight	1.55 kg
Colour	Grey

Environmental characteristics

Temperature Measurement Range	up to 161 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	$\pm$ 8°C

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Environment	Indoor, Outdoor
Operating temperature	-40 to +65°C
Relative humidity	<90% noncondensing
IP rating	IP67

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	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)
WDR	120 dB
Day/night	True Day/Night
Motorized IR cut filter	Yes
IR range	Up to 30 m
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 x 720 @ 25 fps
Lens type	Fixed

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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
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 to 2.4 V[p-p]
Audio out	1 Audio output interface, line level, impedance: 600 Ω
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)
Local storage support	Yes
Local storage type	Micro SD/SDHC/SDXC
Max. SD card capacity	Up to 128 GB
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	Bullet
Vandal proof	Yes
Impact rating	IK10
Compliance	CE, cUL, REACH, RoHS, UKCA, UL, WEEE
Category	Reference
Brackets & Mounts	TVD-M-CMA