

DATASHEET



TVTH-S01-0001-TUR-G

TruVision IP thermal turret camera

MAIN FEATURES

- TruVision IP thermal turret camera
- 256 × 192
- 2 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	1K Ω , $\pm 10\%$
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 35 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	$\pm 8^{\circ}\text{C}$

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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
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	5.71 mrad
Pixel Interval	12 µm
NETD	≤ 40 mK (25°C), F1.1
Minimum focal distance	0.1 m
Maximum detection range	up to 268 m (vehicle) / 88 m (human)
Maximum recognition range	up to 67 m (vehicle) / 22 m (human)
Maximum identification range	up to 34 m (vehicle) / 11 m (human)
VCA Range for Vehicles	up to 50 m (4.0 x 1.4 m)
VCA Range for Humans	up to 16 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), 352 x 288 (CIF), 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: 2.1 mm, FoV 90.0 × 65.4° (H × V) / Optical: 2.2 mm, FoV 117.8 × 70.4° (H × V)
f-stop	f1.0
Integration	ONVIF, ONVIF Profile G, ONVIF Profile S, ONVIF Profile T

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TECHNICAL SPECIFICATIONS

Supported network protocols

802.1x, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMP, IPv4, IPv6, NTP, PPPoE, QoS, RTP, RTSP, SMTP, SNMP, TCP, UDP
G.711a, G.711u, G.722, G.726

Audio compression

1 Mic in/Line in interface, line input: 2-2.4V[p-p]

Audio in

1 Audio output interface, line level, impedance: 600Ω

Audio out

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 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