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

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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 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

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Environmental

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

Regulatory

Compliancy	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)

GLEXUS