TVTH-S01-0001-TUR-G

TruVision IP thermal turret camera, 256 × 192, 2 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)
Software compatibility	TruVision Navigator, TVRmobile, Web Browser

Camera

Total Pixels (H x V)	256 x 192
Image sensor	Vanadium Oxide Uncooled Focal Plane Arrays
IFOV	5.71 mrad
Pixel Interval	12 µm
NETD	≤ 40 mK (25°C), F1.0
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)
VCR 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)
Temperature Measurement Range	up to 35 m (1 x 1 m)
Temperature Measurement Range	up to 7 m (0.2 x 0.2 m)

Encoding

Video streams	3
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)
Third 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	2 mm
f-stop	f1.0
Field of View	90° (H) x 65.4° (V)

Network

Integration	ONVIF
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: 2-2.4V[p-p]; output impedance: 1KΩ, ±10%
Audio out	1 Audio output interface, line level, impedance: 600Ω

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 128GB

Video intelligence

Video analytics	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	12VDC PoE (802.3af, class 3)
Power consumption	7W (Max)

Physical

Physical dimensions	358 mm × 113.5 mm × 115.2 mm
Net weight	1.75 kg
Colour	Grey
Form Factor	Turret

Environmental

Environment	Indoor / Outdoor
Operating temperature	-40°C to 65°C
Relative humidity	90% or less, no condensation
IP rating	IP66

Regulatory

Compliancy	CE, cUL, REACH, RoHS, UKCA, UL, WEEE

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Optical Camera

Image Sensor	1/2.7" Progressive Scan CMOS
Total Effective Pixels	2688 x 1520
Shutter Time	1 s to 1/100,000 s
WDR	120 dB
Day/Night	True Day/Night (with motorised IR cut filter)
Color sensitivity	Color: 0.0176 Lux @ (F2.25, AGC ON), B/W: 0.0035 Lux @ (F2.25, AGC ON)
Focal Length	2.2 mm
IR Range	Up to 15 m

Accessories

TVD-BB3	TruVision dome back box
TVD-M2-WM	TruVision Indoor wall mount