

TSFTV2-LED SERIES

INNOVATIVE STAINLESS STEEL CAMERA STATION WITH IR ILLUMINATOR

SAFE AREA

- **INNOVATIVE PRODUCT, BEST IN CLASS TECHNOLOGY**
- AISI316L STAINLESS STEEL CONSTRUCTION
- OPERATING TEMPERATURE -40°C +60°C (+75°C PEAK)
- 5MP, H.265, 40X AUTOFOCUS OPTICAL ZOOM
- ADVANCED PREINSTALLED VIDEO ANALYTICS
- INTEGRATED IR LED ILLUMINATOR
- EDGE RECORDING
- OPTIONAL WINDOW WIPER
- IP66/67
- OPTIONAL BUILT-IN FIBER MEDIA CONVERTER
- OPTIONAL BUILT-IN IP OVER COAXIAL CONVERTER
- OPTIONAL BUILT-IN 120VAC, 230VAC OR POE POWER SUPPLY
- CYBER SECURITY FEATURES
- NDAA COMPLIANT



TECHNICAL SPECIFICATIONS

GENERAL & MECHANICAL

Dimensions	See dimensions drawings
Operating Temperature	-40° +60°C, +75°C peak (-40°F +140°F, +167°F peak)
Construction	AISI316L Stainless Steel
Finish	Electro-polished
Mounting	2x M6, centre to centre 63.5mm
Cable entries	2x M20 x1,5, nickel plated brass cable glands
Wiper	Optional
Weight	Unit: 5 Kg / Package: 6.5 Kg (version with wiper)

ELECTRICAL

Thermostatically controlled heater	T[°C] ON = 12 ± 4°C, T[°C] OFF = 20 ± 3°C
Available voltages	24VAC, 120VAC, 230VAC (+/-10%), PoE+(802.3at) 24VDC available on request
Power consumption	40W MAX 25W MAX (PoE+)

CERTIFICATIONS

Ingress Protection	EN 60529 (IP66/IP67)
IK Classification	IK10 on all sides except for the front glass
EMC	EN 55032; EN 55035; EN/IEC 61000-3-2; EN/IEC 61000-3-3; EN/IEC 61000-6-2; EN/IEC 61000-6-4; CISPR-32; CISPR-35
LVD	EN/IEC 62368-1
RoHS	2011/65/EU + 2015/863/EU (RoHS 3)
WEEE	2012/19/EU

VIDEO/CAMERA

Sensor	1/2.8" Sony Progressive CMOS, 5MP
Resolution	Up to 2592x1944, 5MP
Compression	H.265/H.264/MJPEG
Streaming	Up to 4 configurable streams
Frame Rate	- 2MP: 60fps (HDR off), 30fps (HDR on) - 5MP: 30fps (H.264/H.265), 15fps (MJPEG)
Sensitivity	Color: 0,04 lux, B/W: 0,002 lux
Shutter Speed	1 to 1/10000 s
Optical Filter	Automatically removable IR-cut filter
White Balance	Contrast White Balance
Dynamic range	WDR/HDR
Lens	40x Autofocus Optical Zoom, 12x Digital Zoom, 4.3-170mm, F1.6
FOV	Horizontal: 62.6° (Wide), 1.9° (Tele) Vertical: 48.8° (Wide), 1.4° (Tele)
Analytics	Motion Detection/Tampering Object Type Classification: Human, Bicycle, Motorcycle, Car, Truck, Bus Intrusion Detection: Line Crossing, Object in Zone Object Counting: Crossline Counting, Occupancy in Zone Time in Zone Detection: Loitering, Parking Violation Directional Detection: Wrong Way Anomaly Detection: Abandoned Object, Removed Object Human analysis (optional): Face Recognition, Auto Face Enrollment, People Gathering Vehicle analysis (optional): Vehicle Model Recognition, LPR License Plate Recognition Workplace Safety (optional): PPE Detection

INNOVATIVE STAINLESS STEEL CAMERA STATION WITH IR ILLUMINATOR

Image settings	Exposure, White Balance, Brightness, Sharpness, Contrast, Saturation, Hue, Day/Night Threshold, Noise Reduction, Backlight Compensation, Text Overlay, Privacy Mask
Event Triggers	External Input, Analytics, Network Failure Detection, Periodical Event, Manual Trigger
Event Actions	External Output Activation
Edge Recording	Micro SD/SDHC/SDXC (card not provided)
Network Storage	Support for recording to NAS
SNR	>50dB
Noise Reduction	3D Motion Compensated Noise Reduction
Iris	P-Iris, Auto-Iris
Image Stabilization	EIS

NETWORK

Interface	100BASE-TX/1000BASE-T or 100BASE-FX/1000BASE-X (fiber)
Security	User Authentication/HTTPS/IP Filter/IEEE 802.1x/SNMPv3
ONVIF	ONVIF profile G/M/S/T compliant
Protocols	ARP, PPPoE, IPv4/v6, ICMP, IGMP, QoS, TCP, UDP, DHCP, UPnP, SNMP, SMTP, RTP, RTSP, RTSPS, HTTP, HTTPS, FTP, NTP, DDNS, LLDP, RTMP, SRTP

LED ILLUMINATOR

LED	5 x SMD LED
IR Distance	100mt
Wavelength	850nm

FIBER MEDIA CONVERTER

Interface	100 Base-FX/1000BASE-X
Cabling	Singlemode (9/125 µm) /two fibers/SC connector
Maximum Distance	20km
Wavelength	1310 nm

IP OVER COAXIAL CONVERTER

Interface	10/100 Base-TX over Coaxial Cable
Bandwidth	Up to 95Mbps downlink/uplink
Maximum Distance	1800m
Technology	Broadband over Power Lines (BPL)
Interference Prevention	IEEE 1901-2010 Inter-System Protocol ISP

MODELS

TSF1TV2-LED-IP-M	New Generation Stainless Steel FIXED IP 5MP 40x camera station, with IR LED illuminator, 24VAC
TSF2TV2-LED-IP-M	New Generation Stainless Steel FIXED IP 5MP 40x camera station, with IR LED illuminator, 120VAC
TSF3TV2-LED-IP-M	New Generation Stainless Steel FIXED IP 5MP 40x camera station, with IR LED illuminator, 230VAC
TSF5TV2-LED-IP-M	New Generation Stainless Steel FIXED IP 5MP 40x camera station, with IR LED illuminator, PoE+
TSF1TV2-LED-SM-M	New Generation Stainless Steel FIXED IP 5MP 40x camera station, with IR LED illuminator, SM FO media converter, 24VAC
TSF2TV2-LED-SM-M	New Generation Stainless Steel FIXED IP 5MP 40x camera station, with IR LED illuminator, SM FO media converter, 120VAC
TSF3TV2-LED-SM-M	New Generation Stainless Steel FIXED IP 5MP 40x camera station, with IR LED illuminator, SM FO media converter, 230VAC
TSF1TV2W-LED-IP-M	New Generation Stainless Steel FIXED IP 5MP 40x camera station, with IR LED illuminator, wiper, 24VAC

TSF2TV2W-LED-IP-M	New Generation Stainless Steel FIXED IP 5MP 40x camera station, with IR LED illuminator, wiper, 120VAC
TSF3TV2W-LED-IP-M	New Generation Stainless Steel FIXED IP 5MP 40x camera station, with IR LED illuminator, wiper, 230VAC
TSF5TV2W-LED-IP-M	New Generation Stainless Steel FIXED IP 5MP 40x camera station, with IR LED illuminator, wiper, PoE+
TSF1TV2W-LED-SM-M	New Generation Stainless Steel FIXED IP 5MP 40x camera station, with IR LED illuminator, wiper, SM FO media converter, 24VAC
TSF2TV2W-LED-SM-M	New Generation Stainless Steel FIXED IP 5MP 40x camera station, with IR LED illuminator, wiper, SM FO media converter, 120VAC
TSF3TV2W-LED-SM-M	New Generation Stainless Steel FIXED IP 5MP 40x camera station, with IR LED illuminator, wiper, SM FO media converter, 230VAC

- For IP over COAXIAL converter replace the suffix "SM" with "CX"
- All the above models include sunshield and heater

PRE-ASSEMBLED CABLE TAILS

SAUCCT3-A	3 meters composite cable tail (power, CAT6A, data) with two M20 nickel-plated brass glands.
SAUCCTF3-C	3 meters composite cable tail (power, data, fiber optic) with two M20 nickel-plated brass glands. Fiber termination: SC.
SAUCCT5-A	5 meters composite cable tail (power, CAT6A, data) with two M20 nickel-plated brass glands.
SAUCCTF5-C	5 meters composite cable tail (power, data, fiber optic) with two M20 nickel-plated brass glands. Fiber termination: SC.
SAUCCT10-A	10 meters composite cable tail (power, CAT6A, data) with two M20 nickel-plated brass glands.
SAUCCTF10-C	10 meters composite cable tail (power, data, fiber optic) with two M20 nickel-plated brass glands. Fiber termination: SC.

ACCESSORIES

SSBK-S	Wall mounting bracket
SSPM-S	Pole mount adapter for SSBK-S
SSPTM-S	Top pole mount adapter
SSBKCLN-S	Ceiling mounting bracket

DIMENSIONS

