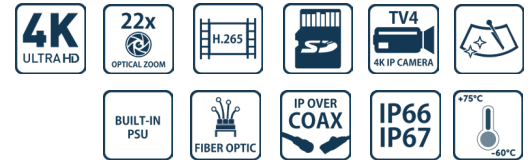
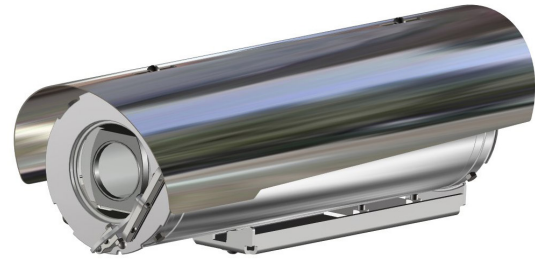


## TSFTV4 SERIES

INNOVATIVE STAINLESS STEEL INNO FIXED CAMERA STATION

SAFE AREA

- **INNOVATIVE PRODUCT, BEST IN CLASS TECHNOLOGY**
- AISI316L STAINLESS STEEL CONSTRUCTION
- OPERATING TEMPERATURE -60°C +60°C (+75°C PEAK)
- 4K (8MP), H.265, 22X AUTOFOCUS OPTICAL ZOOM
- EIS ELECTRONIC IMAGE STABILIZER
- EDGE RECORDING
- OPTIONAL WINDOW WIPER
- IP66/67
- OPTIONAL BUILT-IN FIBER MEDIA CONVERTER
- OPTIONAL BUILT-IN IP OVER COAXIAL CONVERTER
- OPTIONAL BUILT-IN 120VAC OR 230VAC POWER SUPPLY
- CYBER SECURITY FEATURES
- NDAA COMPLIANT



## TECHNICAL SPECIFICATIONS

### GENERAL & MECHANICAL

<b>Dimensions</b>	See dimensions drawings
<b>Operating Temperature</b>	-60° +60°C, +75°C peak (-76°F +140°F, +167°F peak)
<b>Construction</b>	AISI316L Stainless Steel
<b>Finish</b>	Electro-polished
<b>Mounting</b>	2x M6, centre to centre 63.5mm
<b>Cable entries</b>	2x M20 x1,5, nickel plated brass cable glands included
<b>Wiper</b>	Optional
<b>Weight</b>	Unit: 5 Kg / Package: 6.5 Kg (version with wiper)

### ELECTRICAL

<b>Temperature Climatization</b>	T[°C] ON = 12 ± 4°C, T[°C] OFF = 20 ± 3°C
<b>Available voltages</b>	24VAC, 120VAC, 230VAC (+/-10%) 24VDC or PoE available on request
<b>Power consumption</b>	40W MAX

### CERTIFICATIONS

<b>Ingress Protection</b>	EN 60529 (IP66/IP67)
<b>EMC</b>	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
<b>LVD</b>	EN/IEC 62368-1
<b>RoHS</b>	2011/65/EU + 2015/863/EU (RoHS 3)
<b>WEEE</b>	2012/19/EU

### VIDEO/CAMERA

<b>Sensor</b>	1/1.8" Sony Progressive CMOS
<b>Resolution</b>	- Up to 3864x2180, 4K (H.264/H.265) - Up to 1920x1080, 2MP (MJPEG)
<b>Compression</b>	H.265/H.264/MJPEG
<b>Streaming</b>	Up to 4 configurable streams
<b>Frame Rate</b>	- 2MP: 60fps (WDR off), 30 fps (WDR on) - 4K: 30fps (H.264/H.265)
<b>Sensitivity</b>	Color: 0.04 lux, B/W: 0.002 lux
<b>Shutter Speed</b>	1 to 1/10000 s
<b>Optical Filter</b>	Automatically removable IR-cut filter
<b>White Balance</b>	Contrast White Balance
<b>Dynamic range</b>	WDR/HDR
<b>Lens</b>	22x Optical Zoom Auto Focus, 10x Digital, focal Length 6.4-138.5 mm
<b>FOV</b>	Horizontal: 64° (Wide), 3° (Tele) Vertical: 37° (Wide), 2° (Tele)
<b>Analytics</b>	Motion Detection/Tampering. OPTIONAL: intrusion detection, wrong direction, object removal, sabotage, loitering, stopped vehicle, object counting
<b>Image settings</b>	Color, Brightness, Sharpness, Contrast, White Balance, Exposure control, 2D/3D Noise Reduction
<b>Event Triggers</b>	External Input, Analytics, Network Failure Detection, Periodical Event, Manual Trigger
<b>Event Actions</b>	External Output Activation
<b>Edge Recording</b>	Micro SD/SDHC/SDXC (card not provided)
<b>Network Storage</b>	Support for recording to NAS
<b>SNR</b>	>50dB
<b>Noise Reduction</b>	3D Motion Compensated Noise Reduction
<b>Iris</b>	P-Iris, Auto-Iris
<b>Image Stabilization</b>	EIS

## INNOVATIVE STAINLESS STEEL INNO FIXED CAMERA STATION

### NETWORK

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

### FIBER MEDIA CONVERTER

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

### IP OVER COAXIAL CONVERTER

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

### MODELS

<b>TSF1TV4-IP-M</b>	AISI316L New Generation weatherproof FIXED IP 4K 22x camera station, 24VAC
<b>TSF2TV4-IP-M</b>	AISI316L New Generation weatherproof FIXED IP 4K 22x camera station, 120VAC
<b>TSF3TV4-IP-M</b>	AISI316L New Generation weatherproof FIXED IP 4K 22x camera station, 230VAC
<b>TSF1TV4-SM-M</b>	AISI316L New Generation weatherproof FIXED IP 4K 22x camera station, with SM FO Media Converter, 24VAC
<b>TSF2TV4-SM-M</b>	AISI316L New Generation weatherproof FIXED IP 4K 22x camera station, with SM FO Media Converter, 120VAC
<b>TSF3TV4-SM-M</b>	AISI316L New Generation weatherproof FIXED IP 4K 22x camera station, with SM FO Media Converter, 230VAC
<b>TSF1TV4W-IP-M</b>	AISI316L New Generation weatherproof FIXED IP 4K 22x camera station, wiper, 24VAC
<b>TSF2TV4W-IP-M</b>	AISI316L New Generation weatherproof FIXED IP 4K 22x camera station, wiper, 120VAC
<b>TSF3TV4W-IP-M</b>	AISI316L New Generation weatherproof FIXED IP 4K 22x camera station, wiper, 230VAC
<b>TSF1TV4W-SM-M</b>	AISI316L New Generation weatherproof FIXED IP 4K 22x camera station, wiper and SM FO media converter, 24VAC
<b>TSF2TV4W-SM-M</b>	AISI316L New Generation weatherproof FIXED IP 4K 22x camera station, wiper and SM FO media converter, 120VAC
<b>TSF3TV4W-SM-M</b>	AISI316L New Generation weatherproof FIXED IP 4K 22x camera station, wiper and SM FO media converter, 230VAC

- For IP over COAXIAL converter, replace the suffix "SM" with "CX"  
 - All the above models include sunshield and heater  
 - For PoE option, use number "S", ex. TSF5TV4W-

### PRE-ASSEMBLED CABLE TAILS

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

### ACCESSORIES

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

## DIMENSIONS

