

- **INNOVATIVE PRODUCT, BEST IN CLASS TECHNOLOGY**
- AISI316L STAINLESS STEEL CONSTRUCTION
- 4K (8MP), H.265, 22X AUTOFOCUS OPTICAL ZOOM
- EIS ELECTRONIC IMAGE STABILIZER
- EDGE RECORDING
- INTEGRATED WINDOW WIPER
- VERY LOW POWER CONSUMPTION
- EASY MAINTENANCE
- IP66/67
- OPTIONAL BUILT-IN FIBER MEDIA CONVERTER
- OPTIONAL BUILT-IN IP OVER COAX 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>	4x Ø11 on 195 PCD
<b>Cable entries</b>	1x M25x1,5 (second cable entry available on demand)
<b>Wiper</b>	Yes
<b>Pan Angle</b>	360° (continuous rotation)
<b>Pan Speed</b>	0 – 40°/second
<b>Pan Torque</b>	20Nm (limited with safety device)
<b>Tilt Angle</b>	180° (+/-90°)
<b>Tilt Speed</b>	0 – 20°/second
<b>Tilt Torque</b>	20Nm (limited with safety device)
<b>Rotation angle</b>	Electronically adjustable limit switches
<b>Backlash</b>	<0,1°
<b>Max preset accuracy</b>	0,04°
<b>Control protocol</b>	Pelco D (RS485)
<b>Weight</b>	Unit: 29kg / Package: 34kg

### ELECTRICAL

<b>Temperature Climatization</b>	
- Camera Housing	T[°C] ON = 12 ± 4°C, T[°C] OFF = 20 ± 3°C
- Gear motors	Electronically controlled de-icing
<b>Available voltages</b>	24VAC, 120VAC, 230VAC (+/-10%) 24VDC available on request
<b>Power consumption</b>	•10W min (stationary and heaters/wiper off) •85W Operating (no heaters) •130W MAX (low temperature operation)

### CERTIFICATIONS

<b>Ingress Protection</b>	EN 60529 (IP66/IP67)
<b>IK Classification</b>	IK10 on all sides except for the front window
<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, 8MP
<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

## INNOVATIVE STAINLESS STEEL PTZ CAMERA STATION

<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

### 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 S/T/G/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>TSP1TV4-IP-S</b>	New Generation Stainless Steel PTZ IP 4K 22x camera station, 24VAC
<b>TSP2TV4-IP-S</b>	New Generation Stainless Steel PTZ IP 4K 22x camera station, 120VAC
<b>TSP3TV4-IP-S</b>	New Generation Stainless Steel PTZ IP 4K 22x camera station, 230VAC
<b>TSP1TV4-SM-S</b>	New Generation Stainless Steel PTZ IP 4K 22x camera station, SM FO media converter, 24VAC
<b>TSP2TV4-SM-S</b>	New Generation Stainless Steel PTZ IP 4K 22x camera station, SM FO media converter, 120VAC
<b>TSP3TV4-SM-S</b>	New Generation Stainless Steel PTZ IP 4K 22x camera station, SM FO media converter, 230VAC

- For IP over COAXIAL converter, replace the suffix "SM" with "CX"

### PRE-ASSEMBLED CABLE TAILS

<b>SAUCCT3-B</b>	3 meters composite cable tail (power, CAT6A, data) with two M25 nickel-plated brass glands
<b>SAUCCTF3-D</b>	3 meters composite cable tail (power, data, fiber optic) with two M25 nickel-plated brass glands. Fiber termination: SC
<b>SAUCCT5-B</b>	5 meters composite cable tail (power, CAT6A, data) with two M25 nickel-plated brass glands
<b>SAUCCTF5-D</b>	5 meters composite cable tail (power, data, fiber optic) with two M25 nickel-plated brass glands. Fiber termination: SC
<b>SAUCCT10-B</b>	10 meters composite cable tail (power, CAT6A, data) with two M25 nickel-plated brass glands
<b>SAUCCTF10-D</b>	10 meters composite cable tail (power, data, fiber optic) with two M25 nickel-plated brass glands. Fiber termination: SC

### ACCESSORIES

<b>SSBK-L</b>	Wall mounting bracket
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## DIMENSIONS

