

- **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
- IP66/67/68/69, NEMA 4X
- 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%)<br>24VDC available on request    |
| <b>Power consumption</b>         | 10W min (stationary and de-icing/heater/wiper off),<br>130W MAX |

### CERTIFICATIONS

|                             |  |
|-----------------------------|--|
| <b>Ingress Protection</b>   | EN 60529 (IP66/IP67/IP68/IP69), NEMA 4X          |
| <b>Vibrations and Shock</b> | EN/IEC 60068-2-6; EN/IEC 60068-2-27; DNV-CG-0339 |

|             |   |
|-------------|---|
| <b>EMC</b>  | EN 55035; EN/IEC 61000-6-4; EN/IEC 61000-3-2;<br>EN/IEC 61000-3-3; EN/IEC 61000-6-2; CISPR-32;<br>CISPR-35; DNV-CG-0339 |
| <b>LVD</b>  | EN/IEC 62368-1  |
| <b>FCC</b>  | FCC part 15B  |
| <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)  |
| <b>Compression</b>     | H.265/H.264/MJPEG   |
| <b>Streaming</b>       | Up to 4 configurable streams  |
| <b>Frame Rate</b>      | 60fps (WDR off), 30 fps (WDR on)  |
| <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<br>6.4-138.5 mm  |
| <b>Analytics</b>       | Motion Detection/Tampering. OPTIONAL: intrusion<br>detection, wrong direction, object removal, sabotage,<br>loitering, stopped vehicle, object counting |
| <b>Image settings</b>  | Color, Brightness, Sharpness, Contrast, White Balance,<br>Exposure control, 2D/3D Noise Reduction   |
| <b>Event Triggers</b>  | External Input, Analytics, Network Failure Detection,<br>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   |

## INNOVATIVE STAINLESS STEEL PTZ CAMERA STATION

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

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

### PRE-ASSEMBLED CABLE TAILS

|                   |  |
|-------------------|--|
| <b>SAUCT3-B</b>   | 3 meters composite cable tail (power, CAT6A, data) with two M25 nickel-plated brass glands                               |
| <b>SAUCTF3-D</b>  | 3 meters composite cable tail (power, data, fiber optic) with two M25 nickel-plated brass glands. Fiber termination: SC  |
| <b>SAUCT5-B</b>   | 5 meters composite cable tail (power, CAT6A, data) with two M25 nickel-plated brass glands                               |
| <b>SAUCTF5-D</b>  | 5 meters composite cable tail (power, data, fiber optic) with two M25 nickel-plated brass glands. Fiber termination: SC  |
| <b>SAUCT10-B</b>  | 10 meters composite cable tail (power, CAT6A, data) with two M25 nickel-plated brass glands                              |
| <b>SAUCTF10-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 |
|---------------|-----------------------|

## DIMENSIONS

