

INNO THERMAL PTZ CAMERA

INNOVATIVE STAINLESS STEEL THERMAL PTZ CAMERA STATION

SAFE AREA

- **INNOVATIVE PRODUCT, BEST IN CLASS TECHNOLOGY**
- AISI316L STAINLESS STEEL CONSTRUCTION
- THERMAL: 640X512 RESOLUTION, 9HZ OR 25HZ, LWIR
- WIDE RANGE OF THERMAL LENSES
- VERY LOW POWER CONSUMPTION
- EASY MAINTENANCE
- IP66/67
- OPTIONAL BUILT-IN FIBER MEDIA CONVERTER
- OPTIONAL BUILT-IN 120VAC OR 230VAC POWER SUPPLY



TECHNICAL SPECIFICATIONS

GENERAL & MECHANICAL

Dimensions	See dimensions drawings
Operating Temperature	-60° +60°C, +75°C peak (-76°F +140°F, +167°F peak)
Construction	AISI316L Stainless Steel
Finish	Electro-polished
Window	Germanium HC coated 75mm (Thermal)
Mounting	4x Ø11 on 195 PCD
Cable entries	1x M25x1,5 (second cable entry available on demand)
Wiper	No
Pan Angle	360° (continuous rotation)
Pan Speed	0 – 40°/second
Pan Torque	20Nm (limited with safety device)
Tilt Angle	180° (+/-90°)
Tilt Speed	0 – 20°/second
Tilt Torque	20Nm (limited with safety device)
Rotation angle	Electronically adjustable limit switches
Backlash	<0,1°
Max preset accuracy	0,04°
Control protocol	Pelco D (RS485)
Weight	Unit: 29 kg / Package: 34Kg

ELECTRICAL

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

CERTIFICATIONS

Ingress Protection	EN 60529 (IP66/IP67)
IK Classification	IK10 on all sides except for the front window
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

CAMERA (THERMAL)

Sensor	VOx Microbolometer, 12µm, uncooled
Resolution	640x512 pixels
Spectral Band	LWIR 8-14µm
Compression	H.264, MJPEG
Frame Rate	9Hz (9fps) or 25Hz (25fps)
Focus Settings	Fixed manual focus, minimum focus distance
Sensitivity	≤50mK@25°, F/1.0
Shutter type	NUC
Fire Detection	yes
Image settings	Black hot, White hot, Color Palette (18 types)
Event Actions	Recording/Capture/Sending mail/PTZ linkage/Alarm output
Analytics	line intrusion, cross-border, and region intrusion
Alarm Trigger	network disconnection, IP address conflict, full memory, memory error, illegal access and abnormal detection
Edge Recording	yes

INNOVATIVE STAINLESS STEEL PTZ THERMAL CAMERA STATION

Gain	- Digital Filter and Imaging Denoising - Digital Detail Enhancement
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Lens	FOV (HxV)	Min Focus Distance
	640x512	
9.1mm	48.6°x38.6°, F1.0	0.5m
13mm	32.9°x26.6°, F1.0	0.5m
19mm	22.9°x18.4°, F1.0	0.5m
25mm	17.4°x14.0°, F1.0	1m
35mm	12.5°x10.0°, F1.0	1.5m
55mm	8.6°x6.4°, F1.0	2m

NETWORK

Interface	100BASE-TX or 100BASE-FX/1000BASE-X (fiber)
Security	User Authentication/HTTPS
ONVIF	ONVIF S
Protocols	TCP, UDP, RTP, RTSP, RTCP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, IGMP, QoS, NTP, DNS

FIBER MEDIA CONVERTER

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

MODELS

TSP1Tlxx-IP-S	New Generation Stainless Steel PTZ IP Thermal camera station, 24VAC
TSP2Tlxx-IP-S	New Generation Stainless Steel PTZ IP Thermal camera station, 120VAC
TSP3Tlxx-IP-S	New Generation Stainless Steel PTZ IP Thermal camera station, 230VAC
TSP1Tlxx-SM-S	New Generation Stainless Steel PTZ IP Thermal camera station, SM FO Media Converter, 24VAC
TSP2Tlxx-SM-S	New Generation Stainless Steel PTZ IP Thermal camera station, SM FO Media Converter, 120VAC
TSP3Tlxx-SM-S	New Generation Stainless Steel PTZ IP Thermal camera station, SM FO Media Converter, 230VAC

To order the required camera configuration, please replace "Tlxx" with the number indicated in the table below.

CAMERA MODEL SELECTION (TlXX)

	640x512	
	9Hz	25Hz
9.1mm	Tl22	Tl32
13mm	Tl23	Tl33
19mm	Tl24	Tl34
25mm	Tl25	Tl35
35mm	Tl26	Tl36
55mm	Tl27	Tl37

PRE-ASSEMBLED CABLE TAILS

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

ACCESSORIES

SSBK-L	Wall mounting bracket
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DIMENSIONS

