

TECNOVIDEO

CCTV SYSTEMS AND ACCESSORIES

INNO DUAL VISIBLE & THERMAL PTZ CAMERA

INNOVATIVE STAINLESS STEEL DAY/NIGHT AND THERMAL PTZ CAMERA STATION

SAFE AREA

- **INNOVATIVE PRODUCT, BEST IN CLASS TECHNOLOGY**
- AISI316L STAINLESS STEEL CONSTRUCTION
- VISIBLE: 3MP, H.265, 33X AUTOFOCUS OPTICAL ZOOM
- THERMAL: 336X256 OR 640X512 RESOLUTION, 9HZ OR 25HZ, LWIR
- DUAL INDEPENDENT VISIBLE AND THERMAL VIDEO STREAMS
- WIDE RANGE OF THERMAL LENSES
- EIS ELECTRONIC IMAGE STABILIZER (VISIBLE)
- INTEGRATED WINDOW WIPER (VISIBLE)
- VERY LOW POWER CONSUMPTION
- EASY MAINTENANCE
- IP66/67/68/69, NEMA 4X
- OPTIONAL BUILT-IN FIBER MEDIA CONVERTER
- OPTIONAL BUILT-IN 120VAC OR 230VAC POWER SUPPLY



ONVIF®

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 50mm (Thermal)
Mounting	4x Ø11 on 195 PCD
Cable entries	1x M25x1,5 (second cable entry available on demand)
Wiper	Yes (visible)
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: 40 Kg / Package: 45 Kg

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 de-icing/heater/ wiper/illuminator off), 170W MAX

CERTIFICATIONS

Ingress Protection	EN 60529 (IP66/IP67/IP68/IP69), NEMA 4X
Vibrations and Shock	EN/IEC 60068-2-6; EN/IEC 60068-2-27; DNV-CG-0339
EMC	EN 55035; EN/IEC 61000-6-4; EN/IEC 61000-3-2; EN/IEC 61000-3-3; EN/IEC 61000-6-2; CISPR-32; CISPR-35; DNV-CG-0339
LVD	EN/IEC 62368-1
FCC	FCC part 15B
RoHS	2011/65/EU + 2015/863/EU (RoHS 3)
WEEE	2012/19/EU

CAMERA (DAT/NIGHT)

Sensor	1/2.8" Progressive CMOS, 3MP
Resolution	Up to 2065x1553 (3MP)
Compression	H.265/H.264/MJPEG
Streaming	Up to 4 configurable streams
Frame Rate	60fps (WDR off), 30 fps (WDR on)
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	33x Autofocus Optical Zoom, 10x Digital Zoom, 4.6-152mm, F1.6
Analytics	Motion Detection/Tampering. OPTIONAL: intrusion detection, wrong direction, object removal, sabotage, loitering, stopped vehicle, object counting
Image settings	Color, Brightness, Sharpness, Contrast, White Balance, Exposure control, 2D/3D Noise Reduction
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)

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Network Storage	Support for recording to NAS
SNR	>50dB
Noise Reduction	3D Motion Compensated Noise Reduction
Iris	P-Iris, Auto-Iris
Image Stabilization	EIS

CAMERA (THERMAL)

Sensor	VOx Microbolometer, 17µm, uncooled
Resolution	336x256 or 640x512 pixels
Spectral Band	LWIR 7.5-13.5µm
Compression	H.264 (Baseline Profile / Main Profile / High Profile), H.265, MJPEG
Streaming	Up to three streams
Frame Rate	9Hz (9fps) or 25Hz (25fps)
Focus Settings	Fixed manual focus, minimum focus distance, depending on models
Sensitivity	<50 mK @ f/1.0
Shutter type	SSN - Silent Shutterless NUC™ for continuous image uniformity improvement

LENS (THERMAL)

	FOV (HxV)	FOV (HxV)
	336x256	640x512
7.5mm	45°x35°, F1.25	90°x69°, F1.4
9mm	35°x27°, F1.25	69°x56°, F1.4
13mm	25°x19°, F1.25	45°x37°, F1.25
19mm	17°x13°, F1.25	32°x26°, F1.25
25mm	13°x10°, F1.1	25°x20°, F1.1
35mm	9.3°x7.1°, F1.2	18°x14°, F1.2
50mm	6.5°x5.0°, F1.2	12.4°x9.9°, F1.2

Analytics	Basic video analytics: line crossing, intrusion detection, exception detection (optional)
Edge Recording	microSD, up to 128GB (card not provided)
Gain	DDE Digital Detail Enhancement™/ACE Active Contrast Enhancement™

NETWORK

Interface	100BASE-TX/1000BASE-T or 100BASE-FX/1000BASE-X (fiber)
Security	User Authentication/HTTPS/IEEE 802.1x
ONVIF	ONVIF profile G/S compliant
Protocols	IPv4/v6, TCP, UDP, RTPSP, HTTP, HTTPS, FTP, SMTP, DHCP, PPPoE, QoS, NTP

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

TSPD1TV2-TTxx-IP-S	New Generation Stainless Steel DUAL PTZ IP camera station, 24VAC
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TSPD2TV2-TTxx-IP-S	New Generation Stainless Steel DUAL PTZ IP camera station, 120VAC
TSPD3TV2-TTxx-IP-S	New Generation Stainless Steel DUAL PTZ IP camera station, 230VAC
TSPD1TV2-TTxx-SM-S	New Generation Stainless Steel DUAL PTZ IP camera station, SM FO Media Converter, 24VAC
TSPD2TV2-TTxx-SM-S	New Generation Stainless Steel DUAL PTZ IP camera station, SM FO Media Converter, 120VAC
TSPD3TV2-TTxx-SM-S	New Generation Stainless Steel DUAL PTZ IP camera station, SM FO Media Converter, 230VAC

To order the required camera configuration, please replace "TTxx" with the TT number indicated in the table on the right.

CAMERA MODEL SELECTION TTXX

	336x256		640x512	
	9Hz	25Hz	9Hz	25Hz
7.5mm	TT01	TT11	TT21	TT31
9mm	TT02	TT12	TT22	TT32
13mm	TT03	TT13	TT23	TT33
19mm	TT04	TT14	TT24	TT34
25mm	TT05	TT15	TT25	TT35
35mm	TT06	TT16	TT26	TT36
50mm	TT07	TT17	TT27	TT37

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

