

TECNOVIDEO

CCTV SYSTEMS AND ACCESSORIES

TSFDTV32-XX SERIES

INNOVATIVE STAINLESS STEEL INNO DUAL THERMAL VISIBLE
& THERMAL FIXED CAMERA STATION

INNO

SAFE AREA

- **INNOVATIVE PRODUCT, BEST IN CLASS TECHNOLOGY**
- AISI316L STAINLESS STEEL CONSTRUCTION
- OPERATING TEMPERATURE -50°C +60°C (+75°C PEAK)
- VISIBLE: 5MP, 32X AUTOFOCUS OPTICAL ZOOM
- THERMAL: 640X512 RESOLUTION, 9HZ OR 30HZ, LWIR
- INTEGRATED WINDOW WIPER (VISIBLE)
- EDGE RECORDING
- 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	-50°C +60°C, +75°C peak (-58°F +140°F, +167°F peak)
Construction	AISI316L Stainless Steel
Finish	Electro-polished
Window	Dual window. Thermal: Germanium HC coated 34mm
Mounting	2x M6, centre to centre 63.5mm
Cable entries	2x M20 x1,5, nickel plated brass cable glands included
Wiper	Yes (visible)
Weight	Unit: 6.5 Kg / Package: 8 Kg (version with wiper)

ELECTRICAL

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

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

VISIBLE CAMERA

Sensor	1/2.8" Sony STARVIS Progressive Scan CMOS, 5MP
Resolution	2560 x 1920, 5MP
Compression	H.265/H.264/MJPEG
Streaming	2560 x 1920@30fps
Frame Rate	5MP, 30fps

Focus Settings	Auto/Manual/Semi-Auto
Sensitivity	Color: 0.001 lux (F1.6);B&W: 0.0001 lux (F1.6)
Shutter Speed	1/3 to 1/30000s
Optical Filter	Automatically removable IR-cut filter
White Balance	Auto/Manual/Indoor/Outdoor/ATW/Sodium Lamp/ Natural/Street Lamp/One Push
Dynamic range	WDR
Lens	32x Autofocus Optical Zoom, 16x Digital Zoom, 4.7-150mm
FOV	Horizontal: 57.15° (Wide), 1.96° (Tele) Vertical: 44.4° (Wide), 1.17° (Tele)
Image settings	Saturation, Brightness, Contrast, Sharpness, Gamma
Edge Recording	microSD (card not provided)
Gain	AGC
SNR	>55dB
Noise Reduction	2D/3D
Image Stabilization	EIS

THERMAL CAMERA

Sensor	VOx Microbolometer, 12µm, uncooled
Resolution	640x512 pixels
Spectral Band	LWIR 8-14µm
Compression	H.265/H.264/MJPEG
Streaming	Channel 2: 640x512, 30fps
Frame Rate	9HZ or 30HZ
Sensitivity	≤50mK
Image settings	White heat, black heat, fusion, rainbow, etc

NETWORK

Interface	100BASE-TX/1000BASE-T or 100BASE-FX/1000BASE-X (fiber)
ONVIF	ONVIF compliant

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Protocols	RTP, RTSP, HTTP, HTTPS, TCP, UDP
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FIBER MEDIA CONVERTER

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

IP OVER COAXIAL CONVERTER

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

MODELS

TSFD1TV32-xxW-IP-M	New Generation stainless steel FIXED IP DUAL camerastation, 5MP 32x (visible), 640x512 (thermal), 24VAC
TSFD2TV32-xxW-IP-M	New Generation stainless steel FIXED IP DUAL camerastation, 5MP 32x (visible), 640x512 (thermal), 120VAC
TSFD3TV32-xxW-IP-M	New Generation stainless steel FIXED IP DUAL camerastation, 5MP 32x (visible), 640x512 (thermal), 230VAC
TSFD1TV32-xxW-SM-M	New Generation stainless steel FIXED IP DUAL camerastation, 5MP 32x (visible), 640x512 (thermal), SM FMedia converter, 24VAC
TSFD2TV32-xxW-SM-M	New Generation stainless steel FIXED IP DUAL camerastation, 5MP 32x (visible), 640x512 (thermal), SM FMedia converter, 120VAC
TSFD3TV32-xxW-SM-M	New Generation stainless steel FIXED IP DUAL camerastation, 5MP 32x (visible), 640x512 (thermal), SM FMedia converter,

- All the above models include sunshield and heater

- To order the required camera configuration, please replace "TV32-xx" with the number indicated in the table below

CAMERA MODEL SELECTION (TV32-XX)

	9Hz	30Hz
9mm	TV32-22	TV32-32
13mm	TV32-23	TV32-33
19mm	TV32-24	TV32-34
25mm	TV32-25	TV32-35

PRE-ASSEMBLED CABLE TAILS

SAUCT3-A	3 meters composite cable tail (power, CAT6A, data) with two M20 nickel-plated brass glands
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SAUCTF3-C	3 meters composite cable tail (power, data, fiber optic) with two M20 nickel-plated brass glands. Fiber termination: SC
SAUCT5-A	5 meters composite cable tail (power, CAT6A, data) with two M20 nickel-plated brass glands
SAUCTF5-C	5 meters composite cable tail (power, data, fiber optic) with two M20 nickel-plated brass glands. Fiber termination: SC
SAUCT10-A	10 meters composite cable tail (power, CAT6A, data) with two M20 nickel-plated brass glands
SAUCTF10-C	10 meters composite cable tail (power, data, fiber optic) with two M20 nickel-plated brass glands. Fiber termination: SC

ACCESSORIES

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

DIMENSIONS

