

TECNOVIDEO

CCTV SYSTEMS AND ACCESSORIES

NEXT

TXFUS-TYXX SERIES

INNOVATIVE EXPLOSIONPROOF NEXT THERMAL FIXED CAMERA STATION

HAZARDOUS AREA

- **INNOVATIVE PRODUCT, BEST IN CLASS TECHNOLOGY**
- CLASS1/DIV1 EXPLOSIONPROOF THERMAL CAMERA FOR HAZARDOUS LOCATIONS
- AISI316L STAINLESS STEEL CONSTRUCTION
- 640X512 RESOLUTION, 9HZ OR 30HZ, LWIR
- THERMAL RADIOMETRIC ANALYTICS OPTIONAL
- WIDE RANGE OF FIXED LENSES
- GERMANIUM WINDOW
- IP66/67/68/69, NEMA 4X
- OPTIONAL BUILT-IN FIBER MEDIA CONVERTER
- OPTIONAL BUILT-IN IP OVER COAXIAL 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
Mounting	4x M5 on 101,6 PCD 4x M6 on 90x130
Cable entries	2x M25x1,5 and 3/4in (adapter) (second cable entry available on demand)
Weight	Unit: 10.5 Kg / Package: 12 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/IP68/IP69), NEMA 4X
IK Classification	IK10 on all sides except for the cameras front glasses, which are rated IK08
Rating	Class I, Division 1, Groups A, B, C and D T6/T5/T4 -50°C ≤ Tamb ≤ +60°C/75°C/80°C (only for Canada) Class I, Division 1, Groups B, C and D T6/T5/T4 -25°C ≤ Tamb ≤ +60°C/75°C/80°C (only for US) Class II/III, Division 1, Groups E, F and G T6/T5/T4 -50°C ≤ Tamb ≤ +60°C/75°C/80°C (for US/Canada) Class 1 Zone 1 AEx/Ex db IIC T6/T5/T4 Gb -50°C ≤ Tamb ≤ +60°C/75°C/80°C Zone 21 AEx/Ex tb IIIC T85°C/T100°C/T135°C Db -50°C ≤ Tamb ≤ +60°C/75°C/80°C
North American Standards	FM 3600; FM 3615; FM 3616; FM 3810; ANSI/UL 50E; ANSI/UL 60079-0; ANSI/UL 60079-1; ANSI/UL 60079-31; ANSI/IEC 60529; ANSI/UL 61010-1 CSA C22.2 No. 0.4; CSA C22.2 No. 0.5; CSA C22.2 No. 25; CSA C22.2 No. 30; CSA C22.2 No. 94.2; CSA C22.2 No. 60079-0; CSA C22.2 No. 60079-1; CSA C22.2 No. 60079-31; CSA C22.2 No. 60529; CSA C22.2 No. 61010-1
EMC	EN 55032; EN 55035; EN/IEC 61000-6-2; EN/IEC 61000-6-4; EN/IEC 61000-3-2; EN/IEC 61000-3-3; 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, 17µm, uncooled
Resolution	640x512 pixels
Spectral Band	LWIR 7.5-13.5µm
Compression	Two independent channels of H.264 / H.265 or MJPEG
Streaming	Up to two streams

www.tecnovideoocctv.com

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INNOVATIVE EXPLOSIONPROOF NEXT THERMAL FIXED CAMERA STATION

Frame Rate	9Hz (9fps) or 30Hz (30fps)
Focus Settings	Athermalized, focus-free
Sensitivity	<25mK (35mK Radiometric version) @ f/1.0
Shutter type	SSN - Silent Shutterless NUC™ for continuous image uniformity improvement
Edge Recording	microSD, up to 512GB (card not provided)
Gain	DDE Digital Detail Enhancement™
Analytics	Intrusion detection, region entrance, fence trespassing. Hot spots, fire detection (only for radiometric version)
Measurement accuracy	Target below 100°C (212°F) ±5°C (±9°F) accuracy Target below 150°C (302°F) ±5% accuracy Target above 150°C (302°F) ±15% accuracy Measured at 25°C (77°F) ambient temperature. Error may be greater at extreme temperatures (only for TRxx version)
Object temperature range	High Gain Mode: 0°C to 160°C (32°F to 320°F) Low Gain Mode: 0°C to 380°C (32°F to 716°F) Video analytics only functional in High Gain Mode (only for TRxx version)

LENS (THERMAL)

	FOV (HxV)	
	TTxx	TRxx (Radiometric)
7.5mm	90°x69°, F1.2	-
9mm	69°x56°, F1.4	69°x56°, F1.4
13mm	44°x36°, F1.0	44°x36°, F1.0
19mm	32°x26, F1.0	-
25mm	25°x18°, F1.1	25°x18°, F1.1
35mm	17°x14°, F1.1	17°x14°, F1.1
60mm	10°x8.2°, F1.2	-

NETWORK

Interface	10/100 Mbps Ethernet
ONVIF	ONVIF profile S/G/T
Protocols	IPv4/v6, TCP, UDP, RTSP, HTTP, HTTPS, FTP, DHCP, 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

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
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MODELS

TXFUS1Tyxx-IP-M	New Generation Explosionproof FIXED Thermal Camera Station. With front grid, 24VAC
TXFUS2Tyxx-IP-M	New Generation Explosionproof FIXED Thermal Camera Station. With front grid, 120VAC
TXFUS1Tyxx-SM-M	New Generation Explosionproof FIXED Thermal Camera Station, SM FO media converter. With front grid, 24VAC
TXFUS2Tyxx-SM-M	New Generation Explosionproof FIXED Thermal Camera Station, SM FO media converter. With front grid, 120VAC
TXFUS1Tyxx-CX-M	New Generation Explosionproof FIXED Thermal Camera Station, IP over COAXIAL converter. With front grid, 24VAC
TXFUS2Tyxx-CX-M	New Generation Explosionproof FIXED Thermal Camera Station, IP over COAXIAL converter. With front grid, 120VAC

(+) Gridless version available on request

TTxx = camera with Analytics

TRxx = camera with Analytics and Radiometry

To order the required camera configuration, please replace "Tyxx" with the number indicated in the table on the side

CAMERA MODEL SELECTION

	TTxx (Analytics only)		TRxx (Analytics & Radiometry)	
	9Hz	30Hz	9Hz	30Hz
7.5mm	TT21	TT31	-	-
9mm	TT22	TT32	TR22	TR32
13mm	TT23	TT33	TR23	TR33
19mm	TT24	TT34	-	-
25mm	TT25	TT35	TR25	TR35
35mm	TT26	TT36	TR26	TR36
60mm	TT28	TT38	-	-

ACCESSORIES

SSBK-M	Wall mounting bracket
SSPM-M	Pole mount adapter for SSBK-M
SSPTM-M	Top pole mount adapter

DIMENSIONS

