TECNOVIDEO

CCTV SYSTEMS AND ACCESSORIES

# NEXT FIXED THERMAL

INNOVATIVE EXPLOSIONPROOF THERMAL CAMERA STATION

**HAZARDOUS AREA**

- **INNOVATIVE PRODUCT, BEST IN CLASS TECHNOLOGY**
- ATEX/IECEX/UKCA/INMETRO EXPLOSIONPROOF THERMAL CAMERA FOR HAZARDOUS LOCATIONS
- AISI316L STAINLESS STEEL CONSTRUCTION
- CERTIFICATION TEMPERATURE -60°C +80°C
- 640X512 RESOLUTION, 9HZ OR 25HZ, LWIR
- 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
- H2-READY

## TECHNICAL SPECIFICATIONS

### GENERAL & MECHANICAL

| | |
|---|---|
| **Dimensions** | See dimensions drawings |
| **Operating Temperature** | -40°C +60°C, +75°C peak (-40°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<br>4x M6 on 90x130 |
| **Cable entries** | 2x M25 x1,5 |
| **Weight** | Unit: 10.5 Kg / Package: 12 Kg |

### ELECTRICAL

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

### CERTIFICATIONS

| | |
|---|---|
| **Ingress Protection** | EN 60529 (IP66/IP67/IP68/IP69), NEMA 4X |
| **Rating** | II 2 G Ex db IIC T6/5/4 Gb -60°C ≤ Tamb ≤ +60/75/80°C<br>II 2 D Ex tb IIIC T85/100/135°C Db -60°C ≤ Tamb ≤ +60/75/80°C |
| **Vibrations and Shock** | EN/IEC 60068-2-6; EN/IEC 60068-2-27; DNV-CG-0339 |
| **ATEX/UKCA Standards** | EN 60079-0; EN 60079-1; EN 60079-31 |
| **IECEX Standards** | IEC 60079-0; IEC 60079-1; IEC 60079-31 |
| **INMETRO** | ABNT NBR IEC 60079-0; ABNT NBR IEC 60079-1;<br>ABNT NBR IEC 60079-31 |
| **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 |
| **Gain** | Digital Filter and Imaging Denoising<br>Digital Detail Enhancement |

| **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 |



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## NETWORK

| | |
|---|---|
| **Interface** | 100BASE-TX/1000BASE-T 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 |

## 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

| | |
|---|---|
| **TXF1TIxx-IP-M** | New Generation Explosionproof FIXED Thermal Camera Station. With front grid, 24VAC |
| **TXF2TIxx-IP-M** | New Generation Explosionproof FIXED Thermal Camera Station. With front grid, 120VAC |
| **TXF3TIxx-IP-M** | New Generation Explosionproof FIXED Thermal Camera Station. With front grid, 230VAC |
| **TXF1TIxx-SM-M** | New Generation Explosionproof FIXED Thermal Camera Station, SM FO media converter. With front grid, 24VAC |
| **TXF2TIxx-SM-M** | New Generation Explosionproof FIXED Thermal Camera Station, SM FO media converter. With front grid, 120VAC |
| **TXF3TIxx-SM-M** | New Generation Explosionproof FIXED Thermal Camera Station, SM FO media converter. With front grid, 230VAC |
| **TXF1TIxx-CX-M** | New Generation Explosionproof FIXED Thermal Camera Station, IP over COAXIAL converter. With front grid, 24VAC |
| **TXF2TIxx-CX-M** | New Generation Explosionproof FIXED Thermal Camera Station, IP over COAXIAL converter. With front grid, 120VAC |
| **TXF3TIxx-CX-M** | New Generation Explosionproof FIXED Thermal Camera Station, IP over COAXIAL converter. With front grid, 230VAC |

*(+) Gridless version available on request: please add suffix -001 to the model name*

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

## CAMERA MODEL SELECTION (TIXX)

| | 640x512 | |
|---|---|---|
| | 9Hz | 25Hz |
| 9.1mm | TI22 | TI32 |
| 13mm | TI23 | TI33 |
| 19mm | TI24 | TI34 |
| 25mm | TI25 | TI35 |
| 35mm | TI26 | TI36 |
| 55mm | TI27 | TI37 |

## PRE-ASSEMBLED CABLE TAILS

| | |
|---|---|
| **EXACCTF3-A** | 3 meters armored composite cable tail (power, Ethernet, data) with 2x M25 barrier nickel plated brass glands |
| **EXACCTF3-C** | 3 meters armored composite cable tail (power, data, fiber optic) with 2x M25 barrier nickel plated brass glands. Fiber termination: SC |
| **EXACCTF5-A** | 5 meters armored composite cable tail (power, Ethernet, data) with 2x M25 barrier nickel plated brass glands |
| **EXACCTF5-C** | 5 meters armored composite cable tail (power, data, fiber optic) with 2x M25 barrier nickel plated brass glands. Fiber termination: SC |
| **EXACCTF10-A** | 10 meters armored composite cable tail (power, Ethernet, data) with 2x M25 barrier nickel plated brass glands |
| **EXACCTF10-C** | 10 meters armored composite cable tail (power, data, fiber optic) with 2x M25 barrier nickel plated brass glands. Fiber termination: SC |

## ACCESSORIES

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



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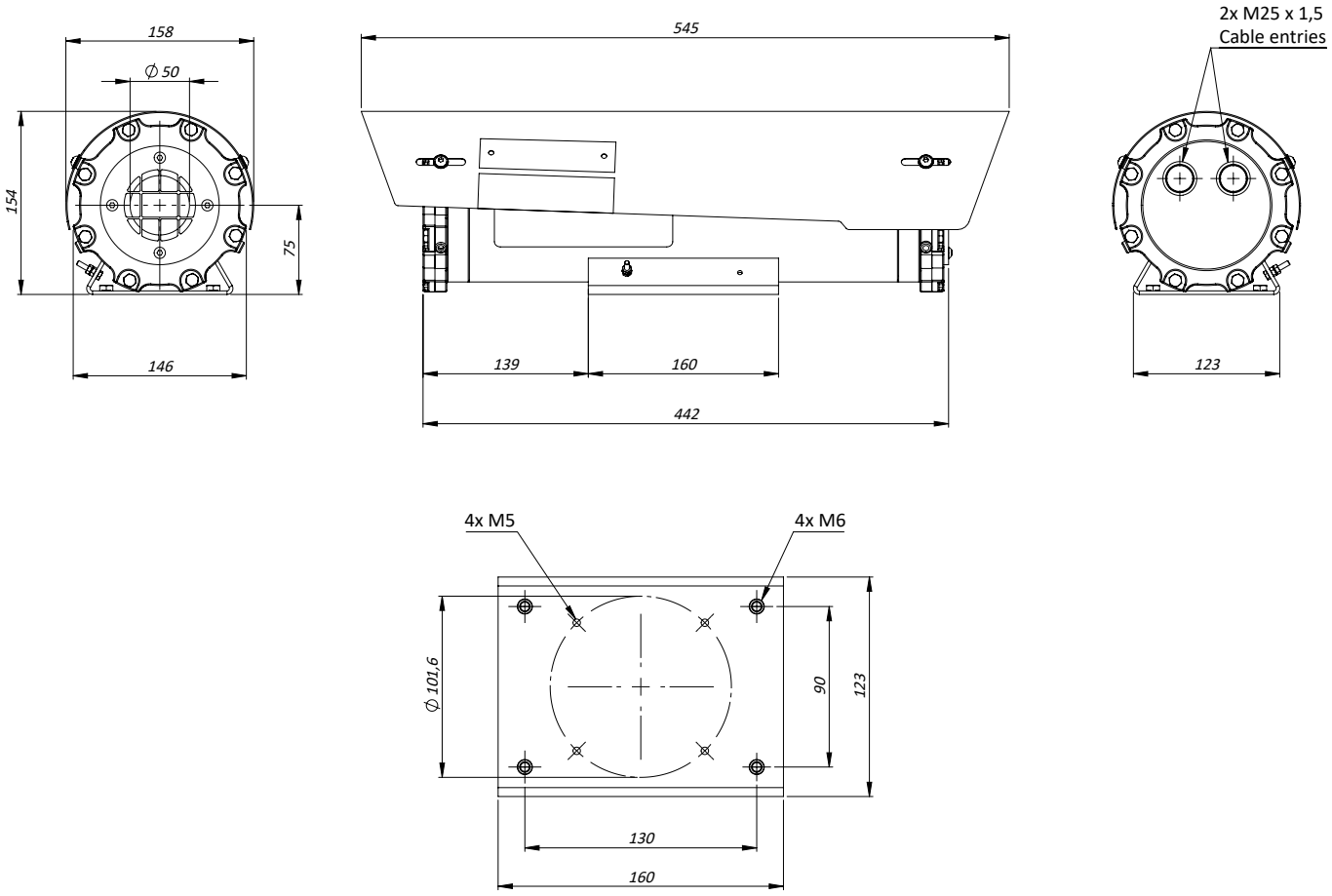
## DIMENSIONS




Dimensions in millimetres – Tolerances according QMS – Design and products specifications subject to change without notice – rev. 20240403



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