

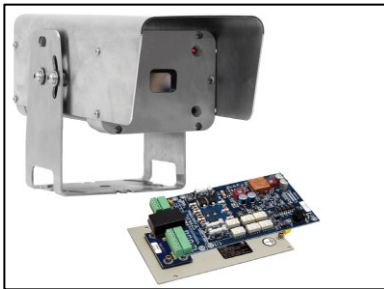
Aluminium

Thermal Image Camera for hazardous Areas

EC-800-TIC-EX-ALU/SST series

The thermal imaging camera allows surveillance without any light source, people can be registered in 450m distances.

IP69K protected thermal imaging camera allows easy cleaning of extremely soiled cameras by using a high-pressure cleaner. The temperature range of -40°C up to +75°C allows worldwide operation without additional enclosures. Shock and vibration resistant thanks to the special design of the camera. Thanks to the SNF (Sensor controlled Nitrogen Filling) design, the camera is maintenance-free and easy to handle.



Stainless steel

Hardware Types

- EC-800-TIC-EX-ALU Aluminium Enclosure
- EC-800-TIC-EX-SST Stainless Steel Enclosure

Hardware Features

- The 316 stainless steel is easy to clean and has excellent seawater resistance for on- and offshore applications.
- The coated aluminium enclosure offers maximum protection at a very light weight.
- Heated lenses offer protection against condensation and frost.
- Zone 1, 2, 21, 22 (Gas / Dust)

Explosion Protection :

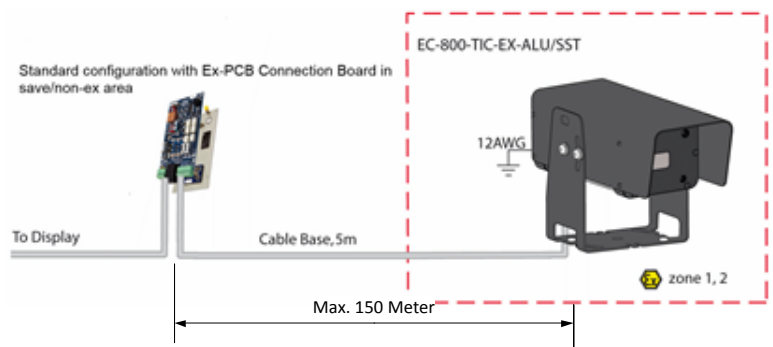
Explosion Protection
Examination Certificate
13ATEX1547X
IECEX NEM 13.0027X



Explosion Protection Identification:

ATEX directive 94/9/EG
II 2 G Ex ib mb px IIC T4 Gb
II 2 D Ex mb tb IIIC T102°C Db
IECEX
Ex II 2 G Ex ib mb px IIC T4 Gb
Ex II 2 D Ex mb tb IIIC T102°C Db

Operation Principle



NOTE: The Ex certificate applies only when both, the Ex-PCB-Connection board and the Ex-camera are used together. For more installation and specification details see the Installation manual.

Temperature Range:

Ambient temperature range
Operation
T5: Tamb -40°C to +75°C
T6: Tamb -40°C to +20°C

IP Protection:

IP68

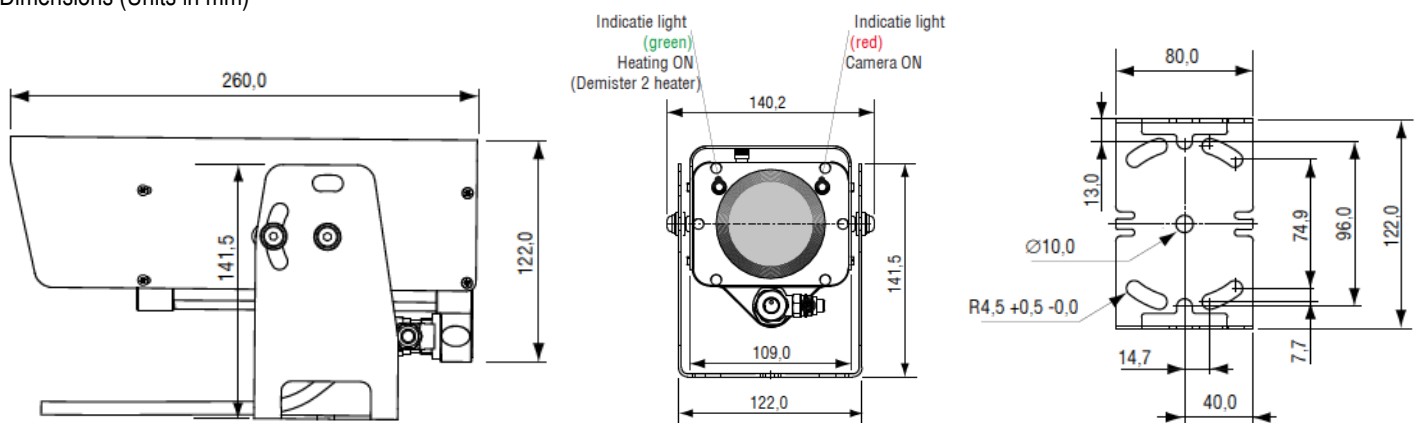
Thermal Image Camera EC-800-TIC-EX-ALU/SST series



Data sheet 2013 | R1-0 | EN

Technical Data	
Sensor	Thermal Imager Uncooled VOx Microbolometer
Pixels	FPA Format 324 x 256 (25-micron pixel size)
Frame Rates	7,5 Hz (NTSC); 8,3 Hz (PAL)
Sensitivity	<75 mk, <50 mk f/1,0
Scene Range	-40°C to +160°C
Digital zoom	2x & 4x
Video	NTSC or PAL (switchable via Visca protocol)
Lens	WFOV, 19mm (24° human detection 450m)
Color	4 Color Palettes (LUTs)
Alu Housing	Sun cover and housing: Aluminium (AlMgSi1). Corrosion proof housing black Nituff (PTFE) coated according Mil-A-6347A type II, offshore proof according IEC 60068-2-52 Bracket and mounting parts: SST 316
SST Housing	Sun cover and housing: Stainless steel 316. Bracket and mounting parts: Stainless steel 316
Protection	IP68; (4m under water, during 4 hours) according to IEC 60529, dry-nitrogen filled, 1,4 Bar overpressure monitored by 2 absolute pressure sensors, long term stability 0,1% per year. Voltage barriers for sensor circuit
Bracket	Standard bracket, including bolts, nuts and washers. Suitable for mounting hanging, overhead and standing
Operating temperature:	T5: Tamb -40°C to +75°C. T6: Tamb -40°C to +20°C
Weight aluminium	3 kg (including 5m cable)
Weight stainless steel	6 kg (including 5 m cable)
Power input	24V/DC +/-10%
Power consumption	Temperature <0°C (heater on): 5.6W. Temperature >0°C (heater off): 3.6 W
Fuse	The camera must be protected with a 315 mA-T fuse, with 1500A breaking capacity. Placed on the Ex-board, see Installation manual IM0973150
Communication	RS 232 Visca protocol 9.6 Kbps or RS232 Pelco D 9.6 Kbps
Cable	Min. cable bending radius 50mm
Electrical parameters	Um = 30V/DC
Optional accessory	Wallbracket, Polebracket, 7" or 15" Ex d display unit, VB-CAM-MULTI-01-ARM, VB-CAM-MULTI-01-UNI, Video server

Dimensions (Units in mm)



Representante oficial de:



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