



Stainless steel

## Pan/Tilt/Thermal Camera for hazardous areas

### EC-800-PTT series

The thermal imaging camera allows surveillance in complete darkness, people can be registered in 450m distance. Because of the high temperature range with -40°C to +75°C the camera could be used worldwide. Thanks to the SNF technology this camera is, compared with Ex d enclosures, maintenance free.



Aluminum

#### Hardware Features

- The stainless steel enclosure is easy to clean and has excellent conditions in seawater areas.
- The coated aluminum enclosure provides the greatest safety with the lowest weight.
- Heated lenses offer protection against condensation and frost
- Zone 1, 2, 21, 22 (Gas / Dust)
- There is a 3.5 m pigtail installed on the camera

#### Hardware Types

#### Explosion Protection:



13ATEX0154X  
IECEX NEM 13.0055X  
RU C-DE.ГБ04.В.00321

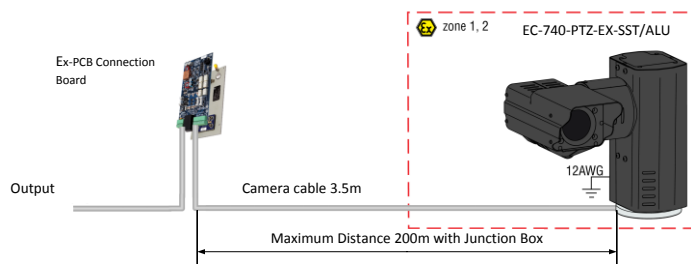
ATEX directive 94/9/EG  
II 2 G Ex ib mb px IIC T4 Gb  
II 2 D Ex mb tb IIIC T95°C Db  
IECEX  
Ex II 2 G Ex ib mb px IIC T4 Gb  
Ex II 2 D Ex mb tb IIIC T95°C Db

Models	Description
EC-740-PTZ-EX-ALU-232-P	Aluminum PTZ with RS-232, PAL Module
EC-740-PTZ-EX-ALU-485-P	Aluminum PTZ with RS-485, PAL Module
EC-740-PTZ-EX-SST-232-P	Stainless steel PTZ with RS-232, PAL Module
EC-740-PTZ-EX-SST-485-P	Stainless steel PTZ with RS-485, PAL Module
EC-740-PTZ-EX-ALU-232-N	Aluminum PTZ with RS-232, NTSC Module
EC-740-PTZ-EX-ALU-485-N	Aluminum PTZ with RS-485, NTSC Module
EC-740-PTZ-EX-SST-232-N	Stainless steel PTZ with RS-232, NTSC Module
EC-740-PTZ-EX-SST-485-N	Stainless steel PTZ with RS-485, NTSC Module

#### Temperature Range:

T4: -40°C...+75°C

#### Operation principle



#### IP Protection:

IP 68

**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.

# Pan/Tilt/Thermal Camera EC-800-PTT series



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Technical Data		
Sensor	Uncooled VOx Micobolometer	
Resolution	FPA Format 324 x 256 (25-micron pixel size)	
Framerate	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 with camera programing)	
Lens	WFOV, 19mm (human registration 450m)	
Color	4 Color palettes (LUTs)	
Voltage	24V DC	
Pan angle	360° total, 180° left 180° right	
Tilt angle	180° total, 90° up 90° down	
PTZ Backlash	1°	
PTZ Speed	12,5°/Sec	
PTZ Presets	128 for VISCA protocol , 255 presets for Pelco-D protocol	
Power consumption	Temperature <0°C (heater on): 5,6W Temperature >0°C (heater off):3,6W PTZ Function 12W	
Cable	5.0m (+/-0.04m), cable should be mounted fixed	
Protection	1.4 Bar overpressure filled with dry nitrogen, long term stability 0,1%/year	
Fuse	The camera must be protected with a 500mA-T fuse, with 1500A breaking capacity. Placed on the Ex PCB-Connection Board, see installation manual.	
	EC-800-PTT-EX-ALU	EC-800-PTT-EX-SST
Housing	Sun cover and housing: aluminum (AlMgSi1)	Sun cover and housing: stainless steel 316
Weight	8,8 kg including 3.5m cable	18,8 kg including 3.5m cable
Communication	EC-800-PTT-xxx-362-x RS-232, 9600 Baud, Pelco-D or Visca protocoll	EC-800-PTT-xxx-364-x RS-485, 9600 Baud, Pelco-D or Visca protocoll
Optional accessories	Ex e terminal box multicable non-armoured, multicable armoured, video encoder, Wash and Wiper system for stainless steel versions, 7" or 15" Ex d monitor	

Units in mm

