

IRCamSafe Ex

Infrared Camera Station for Operation in Explosion-Hazard Areas



The IRCamSafe EX enclosure enables thermal monitoring tasks in explosion-hazard areas. Due to an ATEX-certified enclosure the camera station complies with the latest explosion protection standards. The certification comprises the whole system which includes the enclosure with all its integrated components. This means the installer/user requires no additional certification for the operation of the integrated thermal camera.

- **Designed for thermographic applications in explosion-hazard environments (e.g. chemistry plants)**
- **Suitable for Ex-zones 1, 2, 21, 22**
- **Cylindrical body made from die-cast aluminium (corrosion and heat resistant)**
- **Flameproof screwed cable gland for network connection and power supply**
- **Protection class IP 67**
- **Thermostatically controlled heater for prevention of misty or iced windows**
- **Internal controller board for remote control of the camera (fail-safe design)**
- **No terminal unit required (only for AC version)**
- **Operating temperature range from -40°C to +60°C**
- **Correct thermographic measurements through compensation of the window temperature**

IRCamSafe Ex

Enclosure	
Dimensions	Ø 170 mm, length 408 mm (without sun shield); Ø 182 mm, length 500 mm (with sun shield)
Weight (without camera)	6.7 kg
Material and surface	Nickel-plated aluminium, powder-coated (white)
Operating temperature range	-40°C to +60°C (optional with heater)
Associated mounting	Bracket with joint (stainless steel) for wall and pole mountings
Protection class	IP 67
Protection window	Germanium with coarse meshed protective grating
Connections	<ul style="list-style-type: none"> ▪ Double PG screwed cable gland ▪ Optical fibre cable (four-core) ▪ Copper cable (three-core)
Operating voltage	115 VAC 60Hz / 230 VAC 50 Hz or 24V DC
Options	Air barrier, wall mount, pole mount, additional heater

IR Cameras				
	AT IRS Series	FLIR A3xx, Ax5, A6xx	FLIR G300A	Xenics Serval
Resolution	324 x 256, 336 x 256 or 640 x 512 pixels	320 x 240 or 640 x 480 pixels	320 x 240 pixels	324 x 256, 336 x 256 or 640 x 512 pixels
Angular range	6° to 84.5°	A3xx: 25° x 18.8° (optional 15° and 45°); A615: 7 - 80°	24° x 18° (with 23 mm lens); 14.5° x 10.8° (with 38 mm lens)	6° to 84.5°
Focus settings	Fix (manual)	Motor focus	Motor focus	Fix (manual)

EX-Proof Specifications	
Allowed Ex-Zones	1, 2, 21, 22
Ignition protection type	Flame-proof encapsulation „d“
Max. surface temperature	100°C (according to temperature class T5)
ATEX marking	Gas explosion protection: II 2G Ex d IIC T Dust explosion protection: II 2D Ex tb IIIC T85° Db IP 67
Certification	ZELM 12 ATEX 0485 X