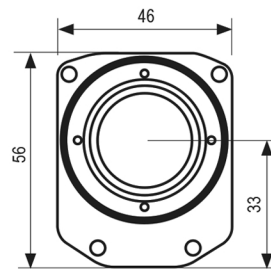
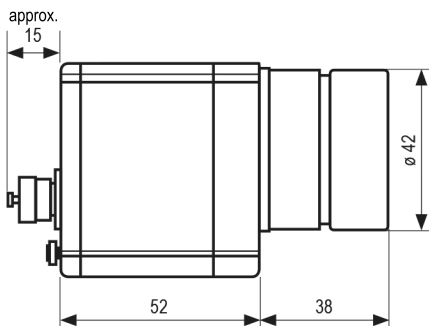
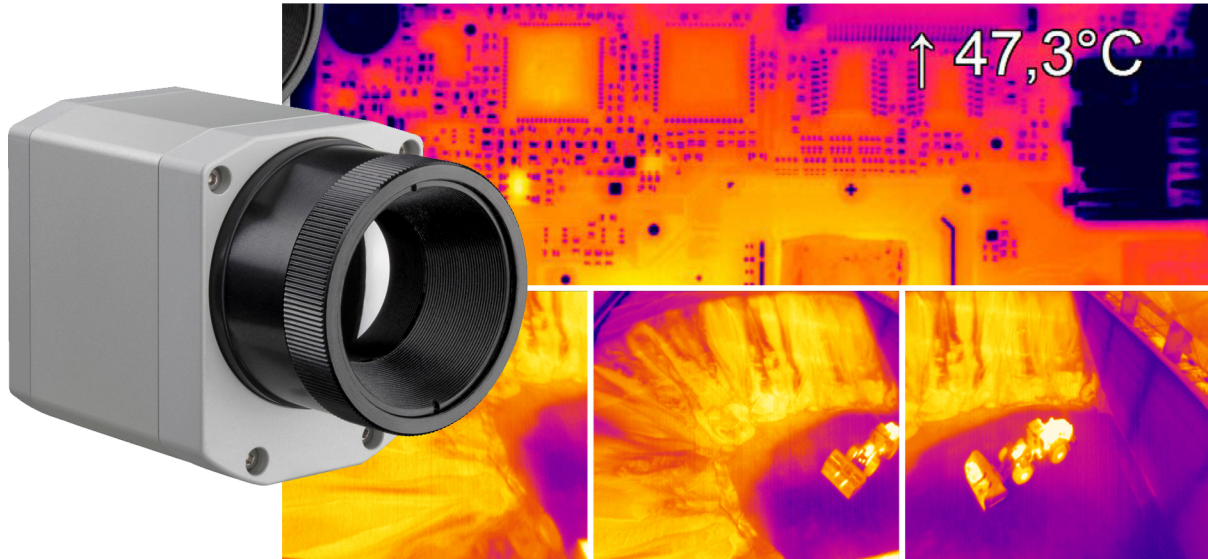
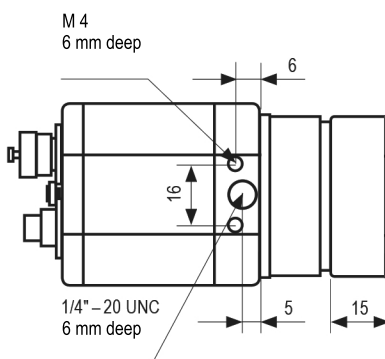


# FTS90

## High Resolution Radiometric Thermographic Camera



Measurements in mm



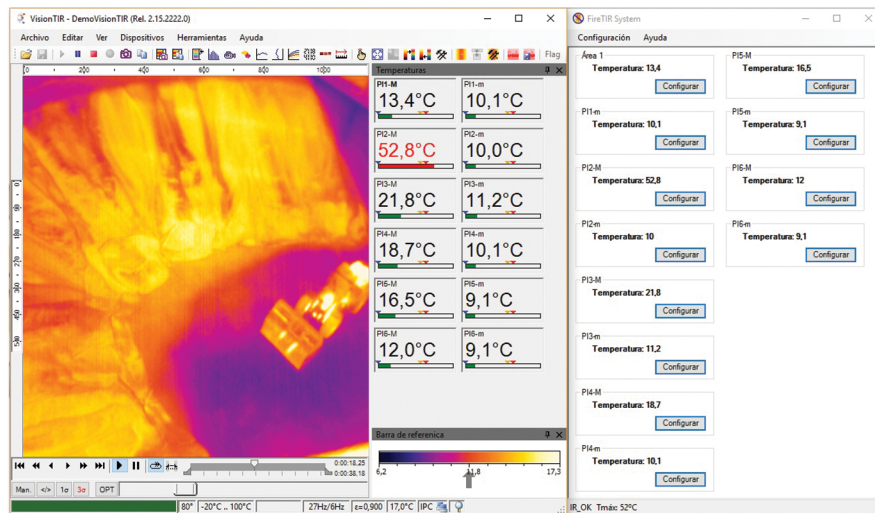
Lower plant

- Detector with 640 x 480 pixels
- High resolution for many applications
- High accuracy:  $\pm 2^\circ \text{C}$  or  $\pm 2\%$
- Wide optics:  $90^\circ \times 64^\circ$
- Focal distance (f): 7,7 mm
- Reduced size: 46 x 56 x 90 mm
- High thermal sensitivity: 75 mK
- Real-time thermal imaging up to 32 Hz
- Lightweight camera (320g including lens)
- Full analysis software
- Robust camera: NEMA 4, IP67

## Software

- Full remote control of all thermal cameras
- Fast and accurate temperature measurement. Capturing the temperature distribution of a surface in milliseconds
- Hotspots automatic detection. Allows thermal evaluation of objects with automatic detection of hot and cold spots
- Configuration of different inspection zones, allowing the change of parameters in each zone: Emissivity, temperature measurement, color palette, dimensions, etc.
- It provides recording functions and analysis of measured data
- Easy integration. Advanced interface concepts enable integration into networks and automated systems
- Notification of alarms via email or digital outputs

Type		
Detector		FPA, uncooled (17 $\mu\text{m}$ x 17 $\mu\text{m}$ )
Optical resolution		640 x 480 pixels
Spectral range		7,5–13 $\mu\text{m}$
Temperature ranges		-20 ... 100 °C, 0 ... 250 °C, 150 ... 900 °C
Frame rate		80 Hz / switchable up to 27 Hz
Optics (FOV)		90° FOV / f = 7.7 mm
Thermal sensitivity (NETD)		75 mK
Accuracy		$\pm 2$ °C or $\pm 2$ %, whichever is greater
PC interface		USB 2.0
Process interface (PIF)	Standard PIF	0–10 V input, digital input (max. 24 V), 0–10 V output
	Industrial PIF (option)	2 x 0-10 V input, digital input (Max 24 V), 3 x 0-10 V outputs, 3 x relays (0-30 V / 400 mA), fail-safe relay
Ambient temperature ( $T_{\text{Amb}}$ )		0 °C ... 50 °C
Storage temperature		-40 °C ... 70 °C
Relative humidity		20–80 %, non-condensing
Dimensions / protection class		46 mm x 56 mm x 90 mm / IP 67 (NEMA 4)
Weight		320 g, incl. lens
Shock/vibration		Shock: IEC 60068-2-27 (25 g and 50 g) Vibration: IEC 60068-2-6 (sinus-shaped)/ IEC 60068-2-64 (broadband noise)
Tripod mount		1/4 - 20 UNC
Voltage supply		via USB



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