

PYROVIEW 380 compact

Infrared cameras for universal application



Features

- Precise non-contact temperature measurement between $-20\text{ }^{\circ}\text{C}$ and $1250\text{ }^{\circ}\text{C}$ in different spectral ranges
- Measurement frequency 50 frames per second
- Compact housing IP54
- Uncooled microbolometer array with 384×288 pixels
- Optics with motor or manual focussing
- Real-time data acquisition via Fast Ethernet
- Option of stand-alone operation without computer
- Alarm and threshold monitoring
- Triggered measurements
- Large dynamic range and 16 bit A/D converter
- Customized system solutions with modified hardware and software

Description and applications

PYROVIEW compact cameras provide instant non-contact measurement of 2D temperature distributions with high thermal and spatial resolution. All models are specifically designed for longterm use in fixed-mount applications.

For general measurements the spectral ranges $8\text{ }\mu\text{m}$ to $14\text{ }\mu\text{m}$ and $3\text{ }\mu\text{m}$ to $5\text{ }\mu\text{m}$ are available. The spectral range $4.8\text{ }\mu\text{m}$ to $5.2\text{ }\mu\text{m}$ has been specially designed for measurements on glass. For measurements through flames the spectral range $3.9\text{ }\mu\text{m}$ is available.

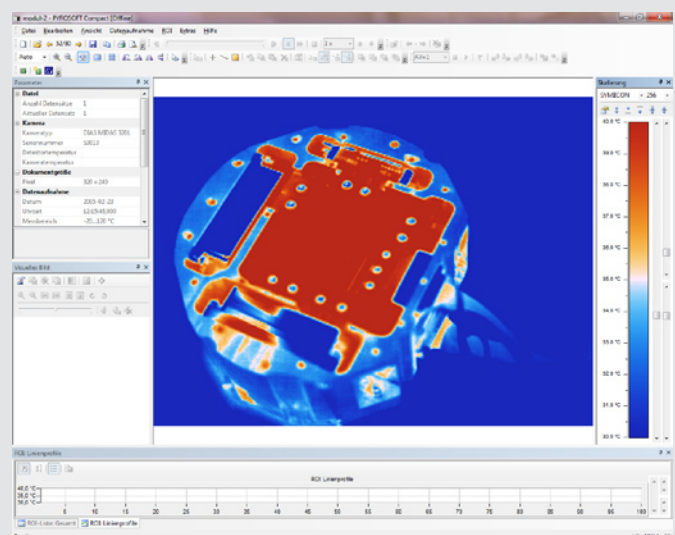
Software

The powerful online software PYROSOFT for Windows[®] allows you to control the camera and record, view, manipulate and store the measured data.

Special features are:

- Real-time data recording
- Definition of zones and monitoring of alarm thresholds
- Analysis of trends
- Data export (text, bitmap, video)
- Support of process interfaces, e.g. Profibus, analogue and digital inputs/outputs, and other

A programming interface (Windows[®]-DLL) is available for system integration.



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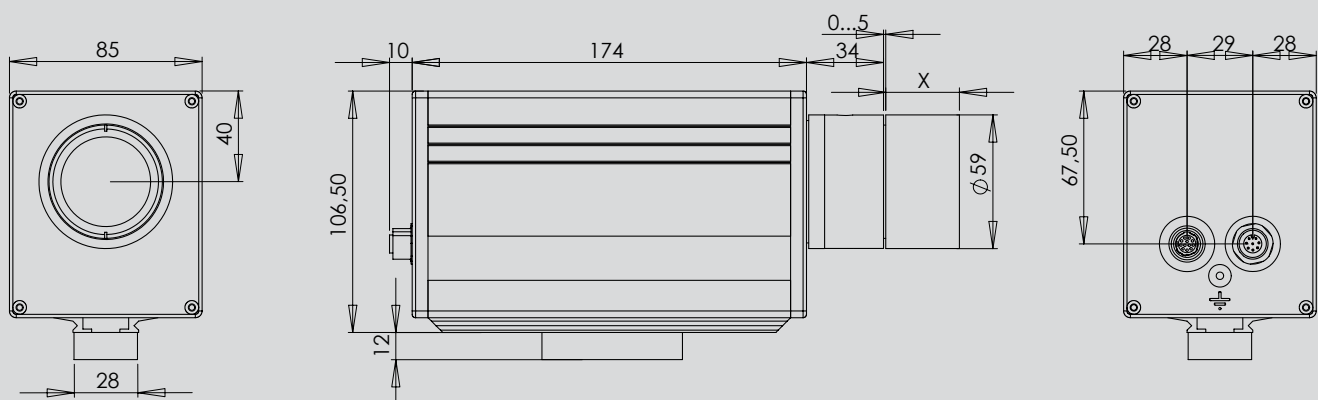
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Technical data

Type	380L compact	380M compact	380G compact	380F compact
Spectral ranges	8 μm to 14 μm	3 μm to 5 μm	4.8 μm to 5.2 μm	3.9 μm
Temperature ranges ¹	-20 °C to 120 °C, 0 °C to 500 °C	100 °C to 300 °C, 200 °C to 500 °C	200 °C to 500 °C, 400 °C to 1250 °C	600 °C to 1250 °C
NETD	< 0.08 K (30 °C, 50 Hz)	< 0.5 K (200 °C, 50 Hz)	< 1 K (400 °C, 50 Hz)	< 1 K (600 °C, 50 Hz)
Aperture angle	30° × 23°, 90° × 74°, 60° × 47°, 44° × 34°, 22° × 16°, 11° × 8°, 7° × 5° ³ , macro 60 μm	30° × 23°, 51° × 40°, 15° × 12°	30° × 23°, 51° × 40°, 15° × 12°	30° × 23°, 51° × 40°, 15° × 12°
Sensor	uncooled microbolometer array (384 × 288 pixels)			
Measurement uncertainty ²	2 K (object temperature < 100 °C) or 2 % of measured value in °C			
Measurement frequency ⁴	internal 50 Hz, selectable: 50 Hz, 25 Hz, 12,5 Hz, ...			
Response time	internal 40 ms, selectable: 2/measurement frequency			
Interfaces	Fast Ethernet (real-time, 50 Hz), galvanically isolated digital inputs (trigger) and digital outputs (alarm)			
Power supply	12 V to 36 V DC, typical 10 VA			
Weight	appr. 1.6 kg			
Housing	aluminium compact housing IP54, 85 mm (W) × 175 mm (L) × 107 mm (H), without lens and connectors, optional built in weatherproof housing with pan-tilt-unit			
Operating temperature	-10 °C to 50 °C			
Storage conditions	-20 °C to 70 °C, max. 95 % relative humidity			
Software	Control and imaging software PYROSOFT for Windows®, customized modifications on request			

¹ Others available. ² Specification for black body reference and ambient temperature 25 °C. ³ NETD < 0.2 K (30 °C, 50 Hz). Optics with manual focussing only. ⁴ Optics with motor or manual focussing. ⁵ Export version < 9 Hz available. Technical details are subject to change without notice. April 2013.

Dimensional drawing



We are certified for many years according to the ISO 9001

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