PYROVIEW 380 compact

Infrared cameras for universal application

Features

- Precise non-contact temperature measurement between –20 °C and 1250 °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 µm to 14 µm and 3 µm to 5 µm are available. The spectral range 4.8 µm to 5.2 µm has been specially designed for measurements on glass. For measurements through flames the spectral range 3.9 µm is available.

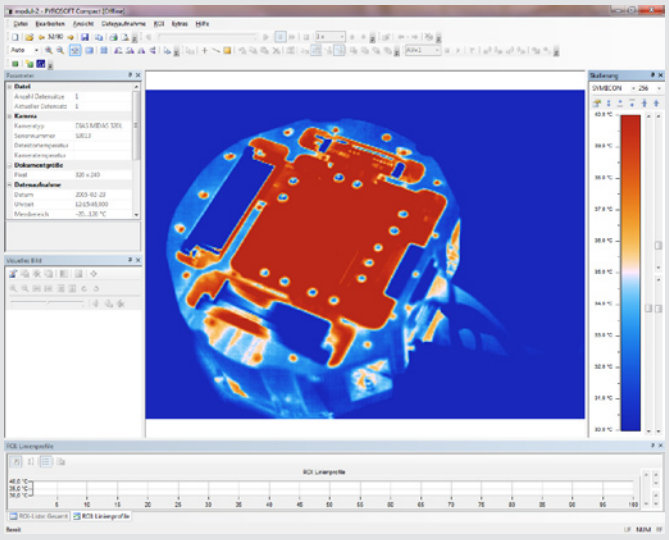
Software

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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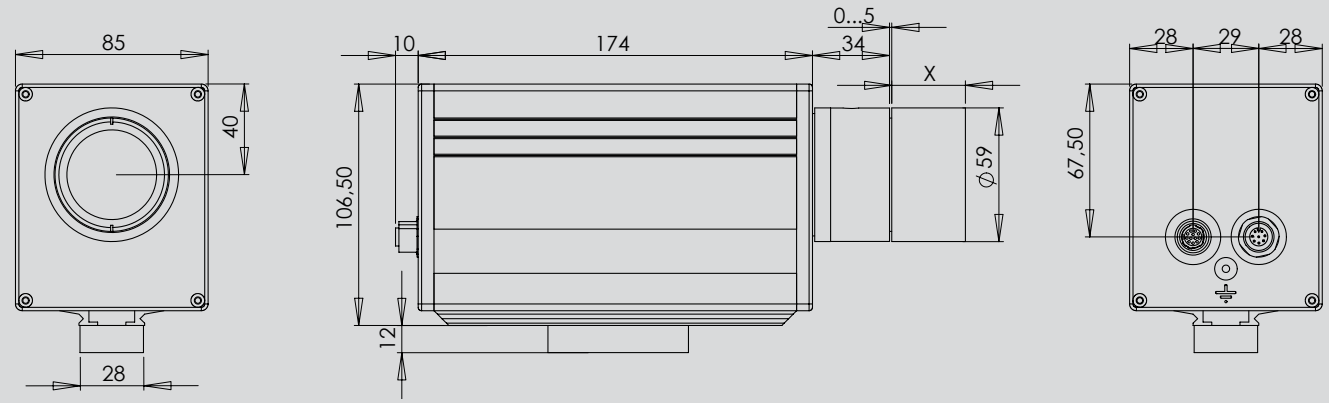
Technical data				
Type	**380L compact**	**380M compact**	**380G compact**	**380F compact**
Spectral ranges	8 µm to 14 µm	3 µm to 5 µm	4.8 µm to 5.2 µm	3.9 µm
Temperature ranges[1]	– 20 °C to 120 °C, 0 °C to 500 °C	100 °C to 300 °C, 200 °C to 500 °C	200 °C to 500 °C, 400 °C to 1250 °C	600 °C to 1250 °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.

Dimensional drawing



We are certified for many years according to the ISO 9001

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