

PYROVIEW 380L compact+

Uncooled infrared camera for applications at 8 μm to 14 μm



Features

- Precise non-contact temperature measurements from $-20\text{ }^{\circ}\text{C}$ to $500\text{ }^{\circ}\text{C}$
- Measurement frequency 50 frames per second
- Uncooled microbolometer array with 384×288 pixels (40 % more than 320×240 pixels)
- Optics with motor or manual focussing
- Real-time data acquisition via 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 380L compact+ camera provides instant non-contact measurement of 2D temperature distributions with high thermal and spatial resolution at 8 μm to 14 μm . The camera is specially designed for long-term use in fixedmounted applications.

Typical applications for the PYROVIEW 380L compact+ include process control and monitoring, quality control, fire detection and measurements in research and development.

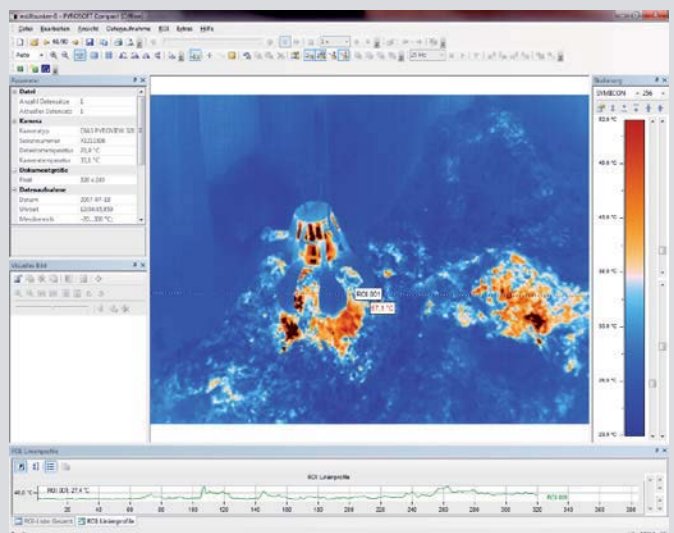
Software

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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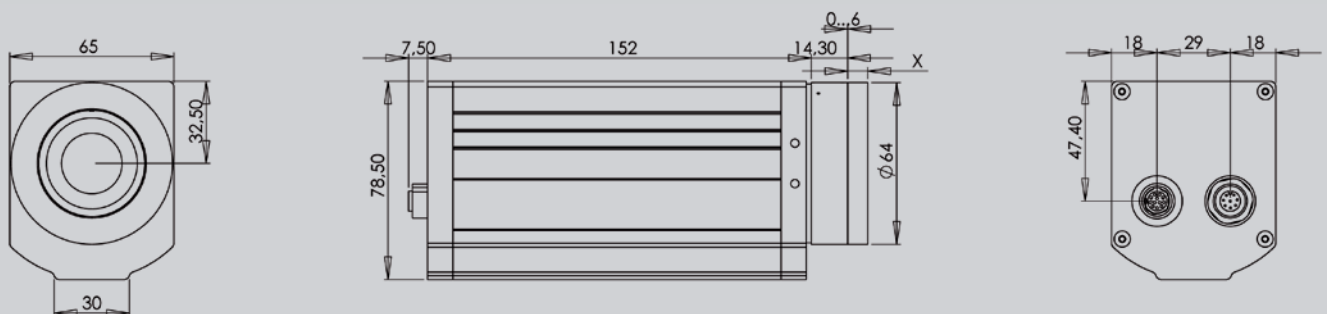
Technical data

Spectral ranges	8 μm to 14 μm
Temperature ranges	range 1: $-20\text{ }^{\circ}\text{C}$ to $120\text{ }^{\circ}\text{C}$, range 2: $0\text{ }^{\circ}\text{C}$ to $500\text{ }^{\circ}\text{C}$
Sensor	uncooled microbolometer array (384 \times 288 pixels)
Lens ⁴	$30^{\circ} \times 23^{\circ}$, measurement distance > 20 cm, spatial resolution 1.4 mrad, optional $90^{\circ} \times 74^{\circ}$, measurement distance > 20 cm, spatial resolution 4.1 mrad, optional $60^{\circ} \times 47^{\circ}$, measurement distance > 20 cm, spatial resolution 2.7 mrad, optional $44^{\circ} \times 34^{\circ}$, measurement distance > 20 cm, spatial resolution 2.0 mrad, optional $22^{\circ} \times 16^{\circ}$, measurement distance > 20 cm, spatial resolution 1.0 mrad, optional macro 60 μm
Measurement uncertainty	2 K (object temperature < $100\text{ }^{\circ}\text{C}$) or 2 % of measured value in $^{\circ}\text{C}$
NETD ³	< 0.08 K ($30\text{ }^{\circ}\text{C}$, 50 Hz, range 1)
Measurement frequency	internal 50 Hz, selectable: 50 Hz, 25 Hz, 12,5 Hz, ...
Response time	internal 40 ms, selectable: 2/measurement frequency
Interfaces	Ethernet (real-time, 50 Hz)
Digital inputs	2 galvanically isolated digital inputs (trigger)
Digital outputs	2 galvanically isolated digital outputs (alarm)
Connectors	round plug connector HR10A (12 pins, power supply, digital inputs and outputs), round plug connector M12A (Ethernet)
Power supply	12 V to 36 V DC, typical 10 VA
Weight	approx. 0.9 kg
Housing	aluminium compact housing IP54, 65 mm (W) \times 160 mm (D) \times 79 mm (H), without lens optional built in industry protection housing IP65 including air purge unit and water cooling or with pan-tilt-unit weather proof housing
Camera operating temperature	$-10\text{ }^{\circ}\text{C}$ to $50\text{ }^{\circ}\text{C}$
Storage conditions	$-20\text{ }^{\circ}\text{C}$ to $70\text{ }^{\circ}\text{C}$, max. 95 % relative humidity
Software	Control and imaging software PYROSOFT for Windows [®] , customized modifications on request

¹ Others available. Noise equivalent temperature difference specification for black body reference and ambient temperature $25\text{ }^{\circ}\text{C}$ with motor or manual focussing.

⁵ Export version < 9 Hz available. Technical details are subject to change. March 2013.

Dimensional drawing



We are certified for many years according to the ISO 9001



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