

# PYROVIEW 640L compact

Uncooled infrared camera for applications at 8  $\mu\text{m}$  to 14  $\mu\text{m}$



## Features

- Non-contact temperature measurements between  $-20\text{ }^{\circ}\text{C}$  and  $500\text{ }^{\circ}\text{C}$
- Measurement frequency 50 frames per second
- Uncooled mikrobolometer array with  $640 \times 480$  pixels
- Optics with motor or manual focussing
- Real-time data acquisition via Gigabit Ethernet with 50 frames per second (maximum)
- Option of stand-alone operating without computer
- Alarm and threshold monitoring
- Large dynamic range and 16 bit A/D converter
- 2 years warranty
- Customized system solutions with modified hardware and software

## Description and applications

PYROVIEW 640L compact cameras provide instant non-contact measurement of 2D temperature distributions with high thermal and excellent spatial resolution at 8  $\mu\text{m}$  to 14  $\mu\text{m}$ . The camera is specially designed for long-term use in fixed-mounted applications.

Typical applications for the PYROVIEW 640L compact include process control and monitoring, quality control, fire detection and measurements in research and development..

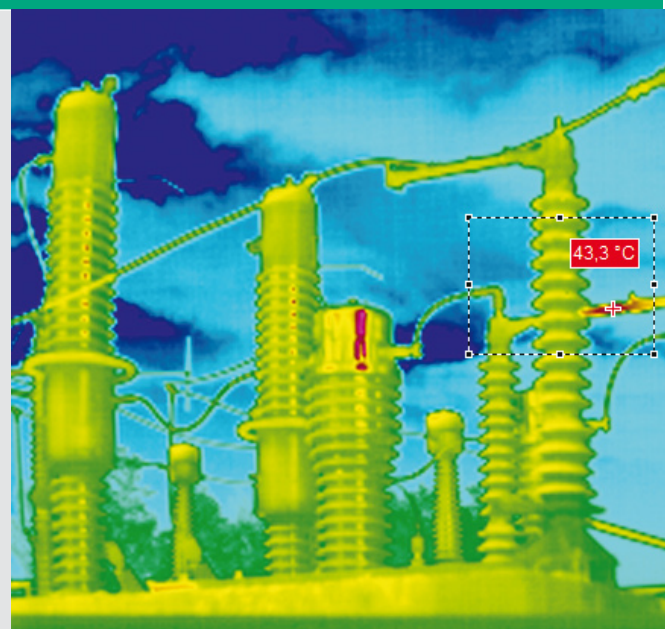
## Software

The powerful online software PYROSOFT for Windows <sup>®</sup> 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 <sup>®</sup>-DLL) is available for system integration.



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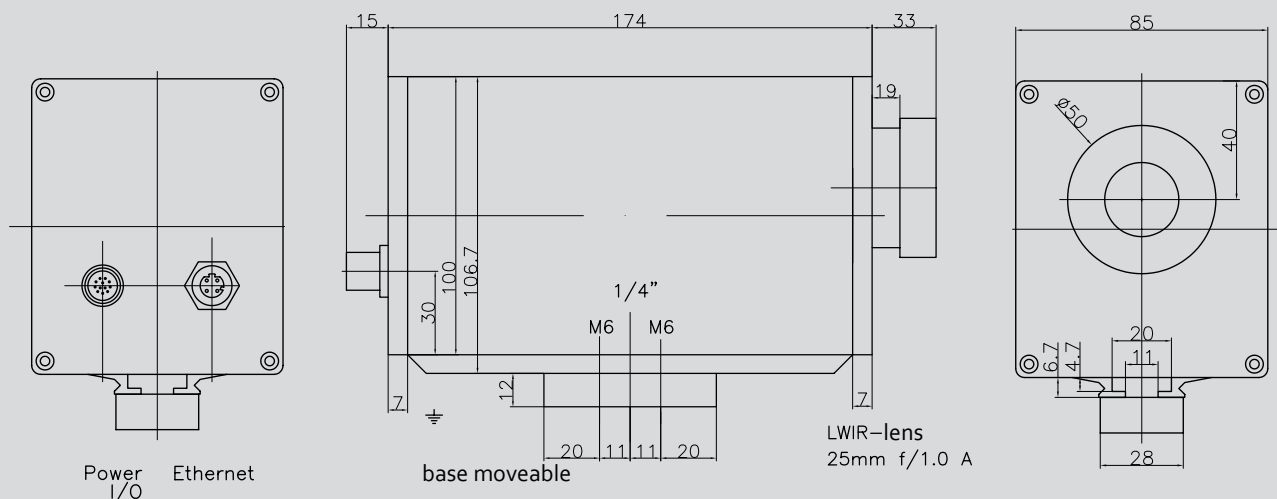
Uncooled infrared camera for applications at 8  $\mu\text{m}$  to 14  $\mu\text{m}$

## Technical data

Spectral range	8 $\mu\text{m}$ to 14 $\mu\text{m}$
Temperature range <sup>1</sup>	range 1: -20 °C to 120 °C, range 2: 0 °C to 500 °C
Sensor	uncooled microbolometer array (640 × 480 pixels)
Lens <sup>1,3</sup>	30° × 23°, measuring distance > 20 cm, spatial resolution 1.0 mrad, optional 60° × 47°, measuring distance > 20 cm, spatial resolution 1.8 mrad, optional 18° × 14°, measuring distance > 1.5 m, spatial resolution 0.5 mrad
Measurement uncertainty <sup>2</sup>	2 K (object temperature < 100 °C) or 2 % of measured value in °C
Noise equivalent temperature difference <sup>2</sup>	< 80 mK (30 °C, 50 Hz, range 1)
Measurement frequency <sup>4</sup>	internal 50 Hz, selectable: 50 Hz, 25 Hz, 12.5 Hz, ...
Response time	internal 40 ms, selectable: 2 / measurement uncertainty
Interface	Gigabit Ethernet (real-time, 50 Hz)
Digital inputs	2 galvanically isolated inputs (trigger)
Digital outputs	2 galvanically isolated outputs (alarm)
Connectors <sup>3</sup>	circular connector HR10A (12 pin, operating voltage, digital inputs and outputs), circular connector M12 (A-coded, 8 pin, Gigabit Ethernet)
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

<sup>1</sup> Other available. <sup>2</sup> Specifications for black body and ambient temperature 25 °C. <sup>3</sup> Optics with motor or manual focussing. <sup>4</sup> Export version with < 9 Hz available.

## Dimensional drawing



We are certified for many years according to the ISO 9001

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