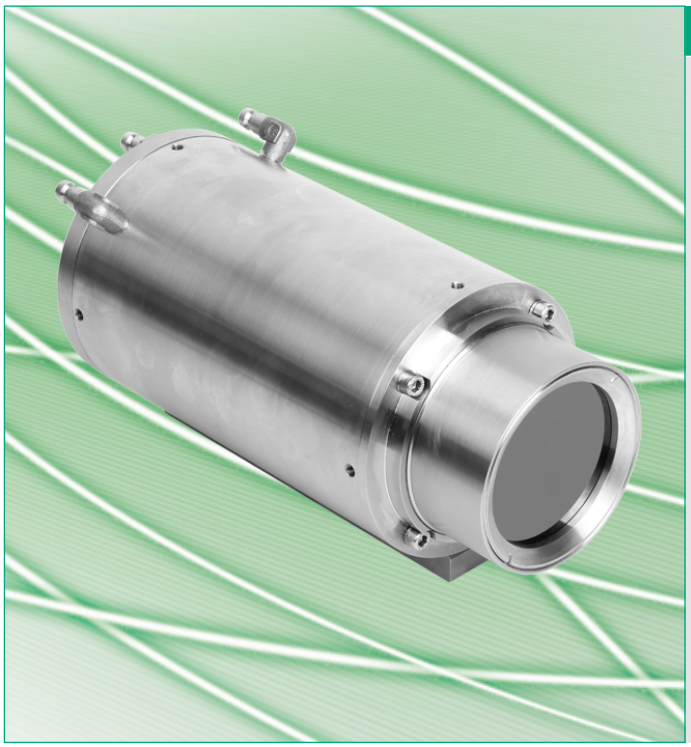
PYROVIEW 380L protection

Uncooled infrared camera for applications at 8 µm to 14 µm



Features

- Precise non-contact temperature measurements between –20 °C and 500 °C
- Measurement frequency 50 frames per second
- Uncooled microbolometer array with 384 × 288 pixels (40 % more than 320 × 240 pixels)
- Robust industrial housing (IP65) for use in harsh environments with optional water-cooling system and air purge
- Optics with motor or manual focussing
- Real-time data acquisition via Fast Ethernet, optional fibre optics
- 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 protection camera provide instant non-contact measurement of 2D temperature distributions with high thermal and spatial resolution. The camera is specially designed for longterm use in harsh industrial environments.

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

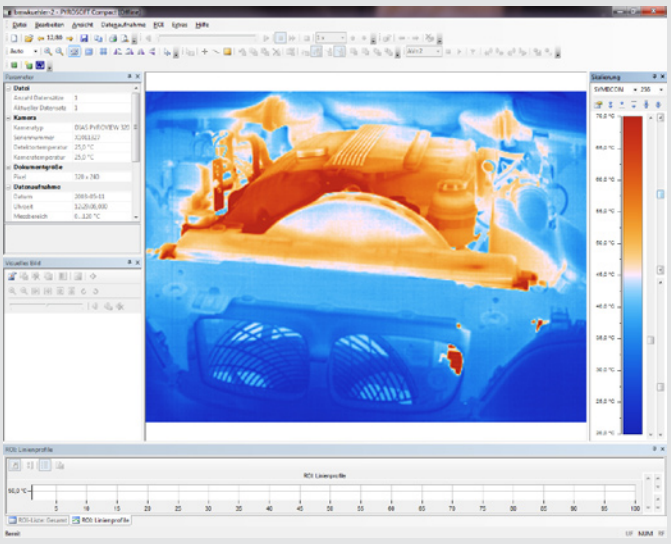
Software

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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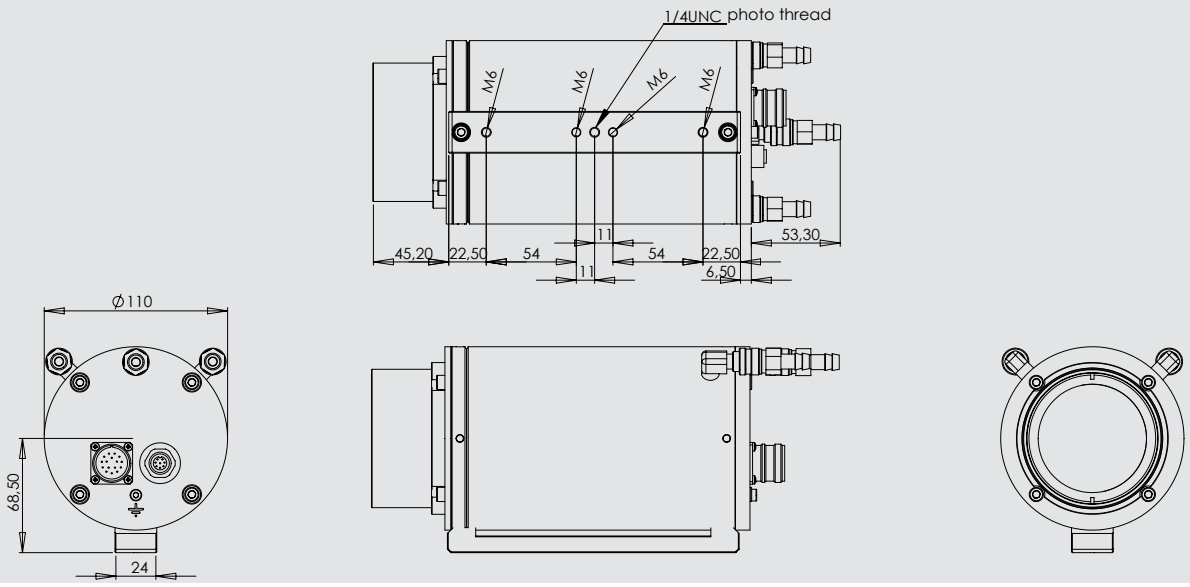
DIAS Infrared Systems

Technical data

Spectral ranges	8 µm to 14 µm
Temperature ranges[1]	range 1: –20 °C to 120 °C, range 2: 0 °C to 500 °C
Sensor	uncooled microbolometer array (384 × 288 pixels)
Lens[1,4]	30° × 23°, measurement distance > 20 cm, spatial resolution 1.4 mrad, optional 90° × 74°, measurement distance > 20 cm, spatial resolution 4.1 mrad, optional 60° × 47°, measurement distance > 20 cm, spatial resolution 2.7 mrad, optional 44° × 34°, measurement distance > 20 cm, spatial resolution 2.0 mrad, optional 22° × 16°, measurement distance > 20 cm, spatial resolution 1.0 mrad, optional macro 60 µm
Measurement uncertainty[3]	2 K (object temperature < 100 °C) or 2 % of measured value in °C
NETD[2,3]	< 0.08 K (30 °C, 50 Hz, range 1)
Measurement frequency[5]	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. 4.2 kg
Housing	industry protection housing IP65, stainless steel, with air purge unit and water cooling, diameter 110 mm, length 280 mm, without mechanical mounting and connectors
Camera operating temperature	–10 °C to 50 °C (without water-cooling), –25 °C to 150 °C (with water-cooling)
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] Noise equivalent temperature difference. [3]Specification for black body reference and ambient temperature 25 °C.. [4] Optics with motor or manual focussing.
[5] Export version < 9 Hz available.

Maßzeichnung



Technische Änderungen vorbehalten. Technical details are subject to change. 15.08.13

TÜV SÜD ISO 9001

We are certified for many years according to the ISO 9001

THERMOLAB
Z.I. Le Trési 6 D - 1028 Préverenges
Tél 021 637 12 37 - Fax 021 637 12 38
www.thermolab.ch
info@thermolab.ch