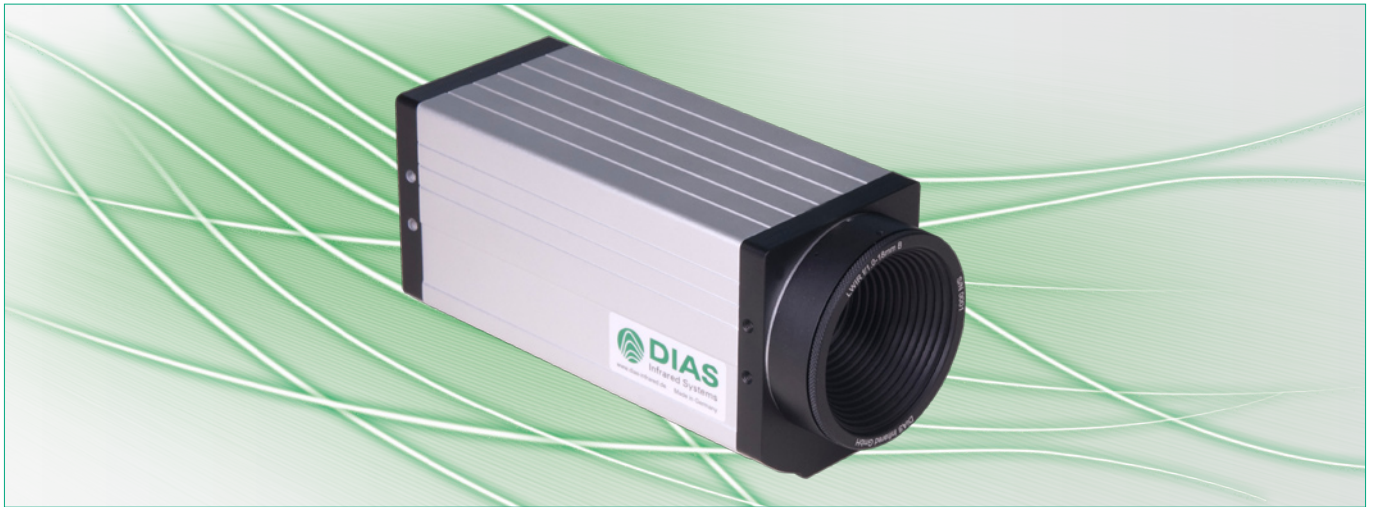


PYROVIEW 160L compact+

Uncooled Infrared Camera for Applications at 8 μm to 14 μm



Special features

- Temperature measurement range $-20\text{ }^{\circ}\text{C}$ to $500\text{ }^{\circ}\text{C}$
- Measurement frequency 70 frames per second
- Uncooled microbolometer with 160×120 pixels
- Optics with manual or motor focussing
- Real-time data acquisition via Fast Ethernet
- Option of stand-alone operation without computer
- Triggered measurements
- Alarm and threshold monitoring
- Large dynamic range and 16 bit A/D conversion
- 2 years warranty
- Customized system solutions with modified hardware and software

Description and applications

PYROVIEW 160L compact+ camera provides instant non-contact measurement of 2D temperature distributions with high thermal resolution at 8 μm to 14 μm . The camera is specially designed for long-term use in fixed-mounted applications.

Typical applications for the PYROVIEW 160L compact+ include process control and monitoring, quality control, fire detection and measurements in research and development.

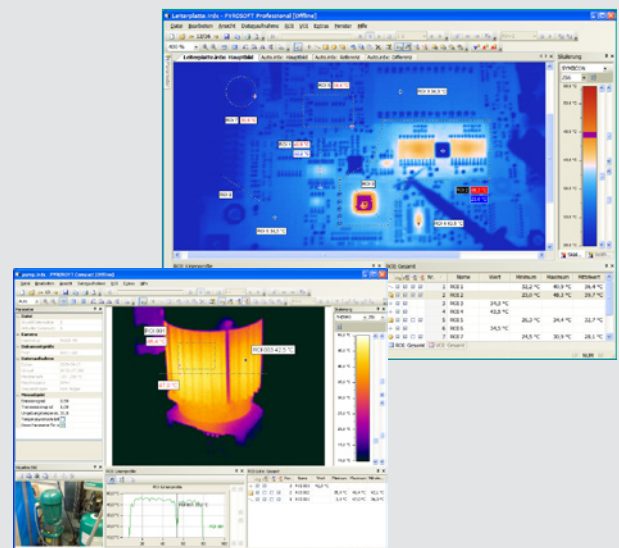
Software

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

Specific features are:

- Real-time data recording
- Definition of zones and monitoring of alarm thresholds
- Analysis of trends
- Data export (text, bitmap, video)
- Process control via PROFIBUS, analog and digital inputs, outputs, and other interfaces

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



PYROVIEW 160L compact+

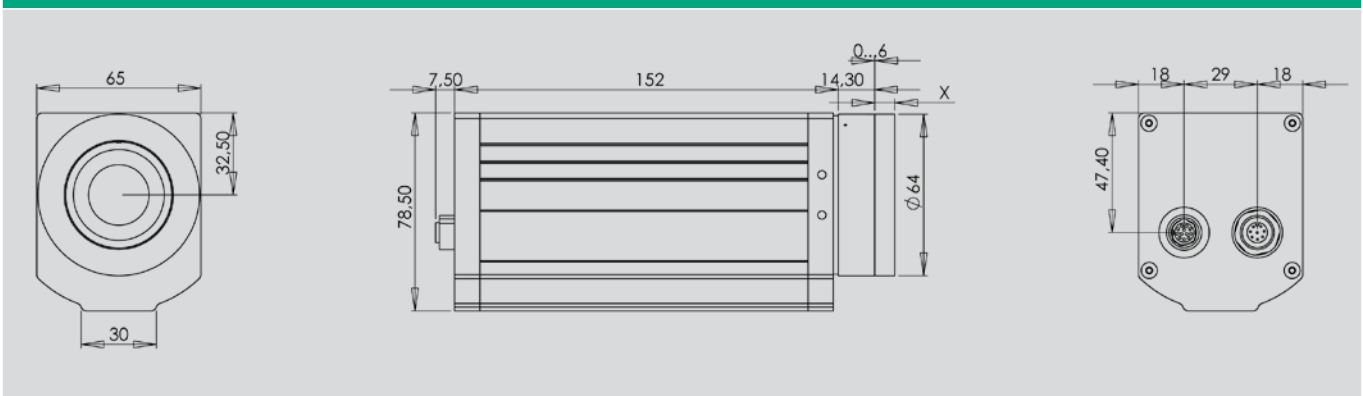
Uncooled Infrared Camera for Applications at 8 μm to 14 μm

Technical data

Spectral Range	8 μm to 14 μm
Temperature Measurement Range ¹	range 1: -20 °C to 120 °C, range 2: 0 °C to 500 °C
Sensor	uncooled microbolometer array (160 × 120 pixels)
Lens ¹	25° × 19°, measurement distance > 20 cm, spatial resolution 2.7 mrad, optional 52° × 40°, measurement distance > 20 cm, spatial resolution 5.7 mrad, optional 18° × 14°, measurement distance > 20 cm, spatial resolution 2.0 mrad, manual focus, optional: motor focus
Measurement Uncertainty ²	2 K (measured temperature < 100 °C) or 2 % of the measured value in °C
Noise equivalent temperature difference ²	< 60 mK (30 °C, 70 Hz, range 1)
Measurement Frequency ³	internal 70 Hz, selectable: 70 Hz, 35 Hz, 17.5 Hz, ...
Response Time	internal 29 ms, selectable: 2 / measurement frequency
Interfaces	Ethernet (real-time, 70 Hz max)
Digital Inputs	2 electrically isolated digital inputs (trigger)
Digital Outputs	2 electrically 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 7 VA
Dimensions	65 mm (W) × 160 mm (D) × 79 mm (H), without lens
Housing	aluminium compact housing IP 54, optional with industrial housing IP 65 with water cooling system and air purge or weatherproof housing with pan-tilt-unit
Camera Operating Temperature	-10 °C to 50 °C
Storage Conditions	-20 °C to 70 °C, rel. humidity 95 % max
Software	Control and imaging software PYROSOFT for Windows ®, customized modifications on request

¹ Other available. ² Specification for black body reference and ambient temperature 25 °C.
³ Export version < 9 Hz available. Technical details are subject to change. April 2012.

Dimensions



We are certified for many years according to ISO 9001

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