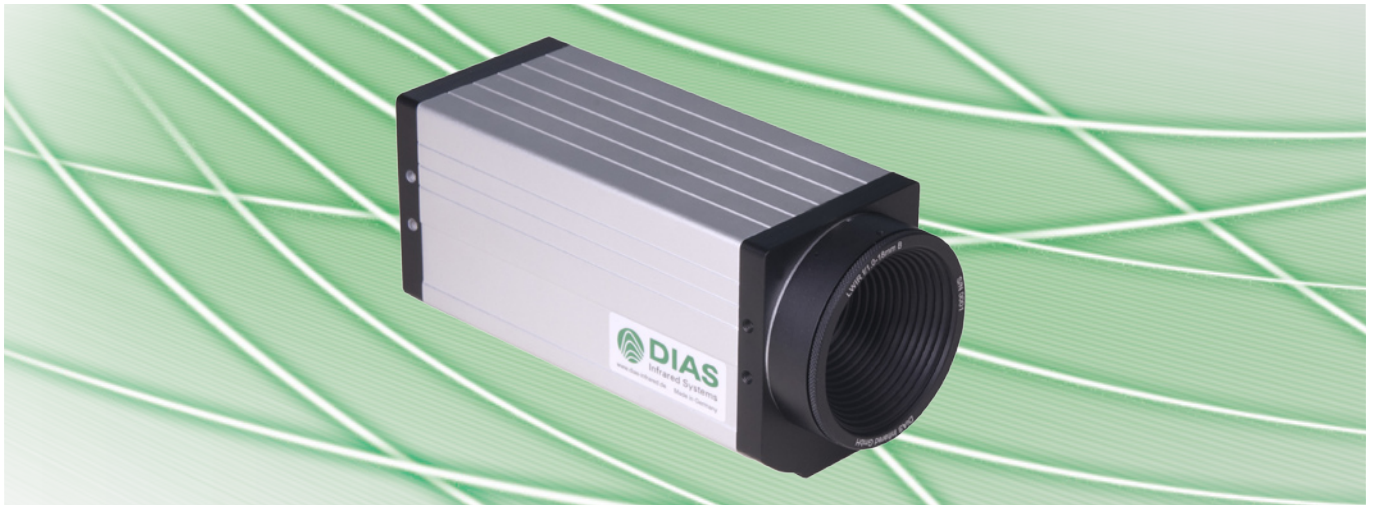


# PYROVIEW 160L compact+

## Uncooled Infrared Camera for Applications at 8 $\mu\text{m}$ to 14 $\mu\text{m}$



### 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  $160 \times 120$  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  $\mu\text{m}$  to 14  $\mu\text{m}$ . The camera is specially designed for long-term use in fixed-mounted applications.

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

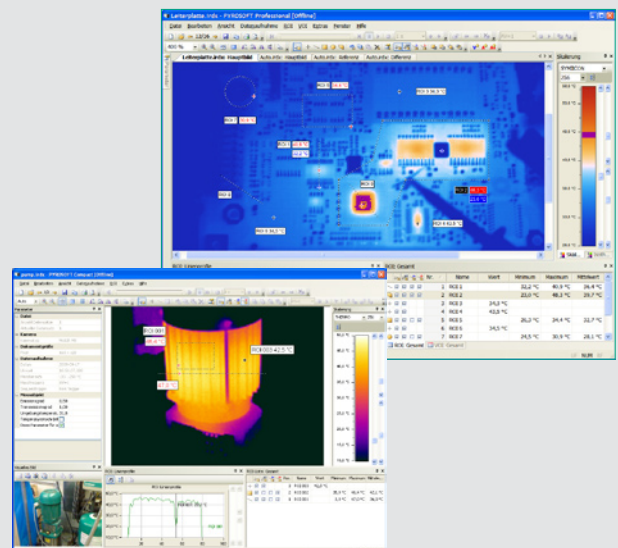
### Software

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



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### Technical data

Spectral Range	8 $\mu\text{m}$ to 14 $\mu\text{m}$
Temperature Measurement Range <sup>1</sup>	range 1: -20 °C to 120 °C, range 2: 0 °C to 500 °C
Sensor	uncooled microbolometer array (160 × 120 pixels)
Lens <sup>1</sup>	25° × 19°, measurement distance > 20 cm, spatial resolution 2.7 mrad, optional 52° × 40°, measurement distance > 20 cm, spatial resolution 5.7 mrad, manual focus, optional: motor focus
Measurement Uncertainty <sup>2</sup>	2 K (measured temperature < 100 °C) or 2 % of the measured value in °C
Noise equivalent temperature difference <sup>2</sup>	< 60 mK (30 °C, 70 Hz, range 1)
Measurement Frequency <sup>3</sup>	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 IP54, optional with industrial housing IP65 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

<sup>1</sup> Other available. <sup>2</sup> Specification for black body reference and ambient temperature 25 °C. <sup>3</sup> Export version < 9 Hz available.

### Dimensions

