

# PYROLINE compact

## High-Speed Uncooled Infrared Line Cameras

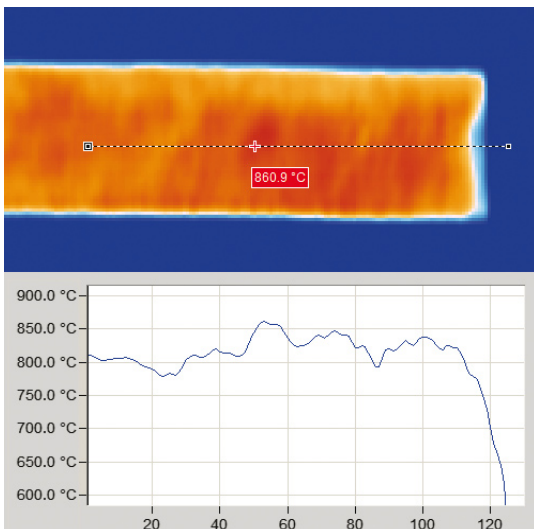
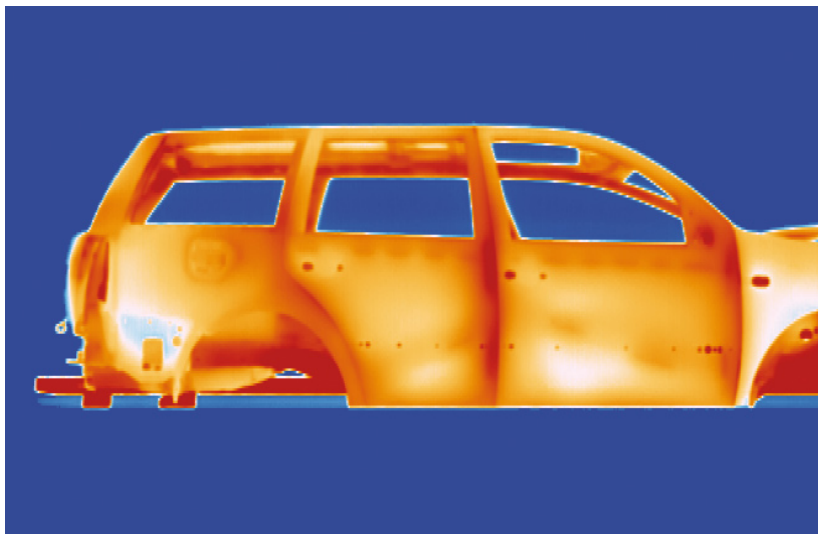


### Features

- Temperature measurement range 0 °C to 1300 °C
- Uncooled infrared linear array with 128 or 256 pixels
- Measurement frequency 256 lines per second, optional up to 512 lines per second
- 4 spectral ranges for different applications
- Different lenses with up to 90° field of view
- Aluminium compact housing (IP 54)
- Real-time data acquisition via Fast Ethernet with up to 512 lines per second
- 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

### Applications

PYROLINE compact cameras provide instant non-contact measurement of temperature distributions. The cameras are specially designed for long-term use in fixed-mounted applications. For general purpose use the spectral ranges of 8  $\mu\text{m}$  to 14  $\mu\text{m}$  and 3  $\mu\text{m}$  to 5  $\mu\text{m}$  are available. The spectral ranges of 4.8  $\mu\text{m}$  to 5.2  $\mu\text{m}$  (which is particularly suitable for the measurement of temperature distributions in glass) and 1.4  $\mu\text{m}$  to 1.8  $\mu\text{m}$  (for metal) are for special applications.



### 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)
- Process control via PROFIBUS, analog and digital inputs, outputs, and other interfaces

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

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Model	Pixels	Temperature Measurement Range <sup>1</sup>	NETD <sup>2</sup> at 32 Hz/ f <sub>meas</sub>	Field of View <sup>1,4</sup>
<b>8 μm to 14 μm</b>				
<b>Standard Models (256 Hz Measurement Frequency)</b>				
PYROLINE 128L compact	128 × 1	50 °C to 550 °C	0.5 K/1.5 K	40° (optional 56°, 90° <sup>3</sup> )
PYROLINE 256L compact	256 × 1			
PYROLINE 128LS compact	128 × 1	0 °C to 80 °C	0.2 K/0.5 K	
<b>High-Speed Models (512 Hz Measurement Frequency)</b>				
PYROLINE 128LS/512Hz compact	128 × 1	50 °C to 550 °C	0.5 K/2 K	40° (optional 56°, 90° <sup>3</sup> )
PYROLINE 256L/512Hz compact	256 × 1	100 °C to 800 °C		
<b>3 μm to 5 μm</b>				
<b>Standard Models (256 Hz Measurement Frequency)</b>				
PYROLINE 128M compact	128 × 1	450 °C to 1250 °C	0.5 K/1.5 K	60° (optional 40°, 90°)
PYROLINE 256M compact	256 × 1			
PYROLINE 128MS compact	128 × 1	200 °C to 800 °C		
<b>4.8 μm to 5.2 μm</b>				
<b>Standard Models (256 Hz Measurement Frequency)</b>				
PYROLINE 128G compact	128 × 1	450 °C to 1250 °C	1 K/3 K	60° (optional 40°, 90°)
PYROLINE 256G compact	256 × 1			
PYROLINE 128GS compact	128 × 1	250 °C to 800 °C		
<b>1.4 μm to 1.8 μm</b>				
<b>Standard Models (256 Hz Measurement Frequency)</b>				
PYROLINE 128N compact	128 × 1	600 °C to 1300 °C	1 K/3 K	60° (optional 40°, 20°)
PYROLINE 256N compact	256 × 1			
<b>Measurement Uncertainty<sup>2</sup></b>				
2 K (measured temperature < 100 °C) or 1 K + 1 % of the measured value in °C				
<b>Interfaces</b>				
Fast Ethernet, electrically isolated digital inputs (trigger) and digital outputs (alarm)				
<b>Power Supply</b>				
10 V to 36 V DC, 7 VA				
<b>Camera Housing</b>				
Aluminium compact housing IP 54, optional with industrial housing IP 65 with water cooling system and air purge, weatherproof housing or ATEX housing				
<b>Dimensions/Weight</b>				
85 mm (W) × 175 mm (D) × 107 mm (H), without lens and connectors, approx. 1.6 kg				
<b>Camera Operating Temperature Range</b>				
-10 °C to 50 °C				
<b>Software</b>				
Control and imaging software PYROSOFT for Windows®, customized modifications on request				

<sup>1</sup> Others available. <sup>2</sup> Specification for black body reference and ambient temperature 25 °C. <sup>3</sup> Increase of NETD by a factor of 2. <sup>4</sup> Optics with manual or motor focussing. Technical details are subject to change without notice. April 2011.