

# PYROLINE 128 & PYROLINE 256

## High-Speed Uncooled Infrared Line Cameras

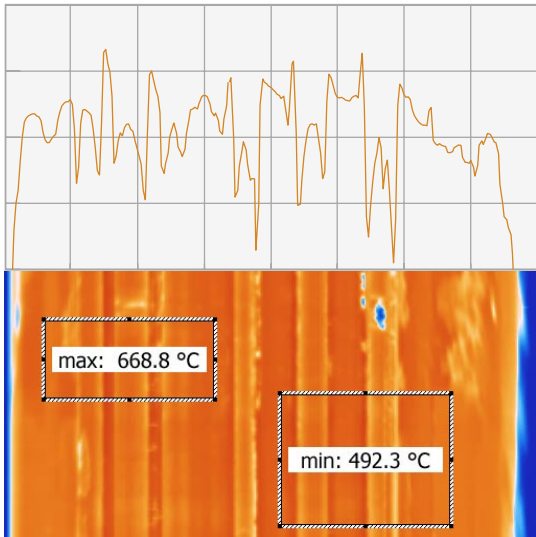
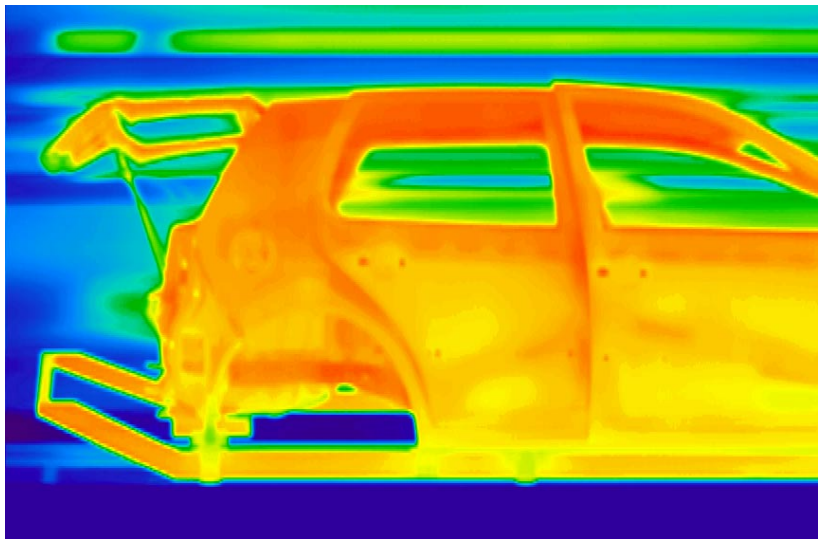


### Features

- Precise non-contact temperature measurement over the range 0 °C to 1300 °C in different spectral ranges
- Measurement frequency 256 lines per second, optional up to 512 lines per second
- Robust housing for industrial environments (IP 65) with optional water-cooling system and air purge
- Uncooled infrared linear array with 128 or 256 pixels
- No opto-mechanical scanner
- Real-time data acquisition via Fast Ethernet or fibre optics with up to 512 lines per second
- Option of stand-alone operation without computer
- Triggered measurements
- Alarm and threshold monitoring
- Large dynamic range
- 16-bit A/D conversion
- Customized system solutions with modified hardware and software

### Applications

PYROLINE cameras provide instant non-contact measurement of temperature distributions. All models have been designed for the long-term measurement of temperature in industrial 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.

# PYROLINE 128 & PYROLINE 256

## High-Speed Uncooled Infrared Line Cameras

Model	Array Size (Pixels)	Temperature Measurement Range <sup>1</sup>	NETD <sup>2</sup> at 32 Hz/ fmeas	Field of View <sup>1</sup>
<b>8 <math>\mu</math>m to 14 <math>\mu</math>m</b>				
<b>Standard Models (256 Hz Measurement Frequency)</b>				
PYROLINE 128L	128 $\times$ 1	50 °C to 550 °C	0.5 K / 1.5 K	40° (optional 56°)
PYROLINE 256L	256 $\times$ 1			
PYROLINE 128LS	128 $\times$ 1	0 °C to 80 °C	0.2 K / 0.5 K	
<b>High-Speed Models (512 Hz Measurement Frequency)</b>				
PYROLINE 128L/512Hz	128 $\times$ 1	50 °C to 550 °C	0.5 K / 2 K	40° (optional 56°)
PYROLINE 256L/512Hz	256 $\times$ 1	100 °C to 800 °C		
PYROLINE 128LS/512Hz	128 $\times$ 1	0 °C to 80 °C		
<b>3 <math>\mu</math>m to 5 <math>\mu</math>m</b>				
<b>Standard Models (256 Hz Measurement Frequency)</b>				
PYROLINE 128M	128 $\times$ 1	450 °C to 1250 °C	0.5 K / 1.5 K	60° (optional 40°)
PYROLINE 256M	256 $\times$ 1			
PYROLINE 128MS	128 $\times$ 1	200 °C to 800 °C		
<b>4.8 <math>\mu</math>m to 5.2 <math>\mu</math>m</b>				
<b>Standard Models (256 Hz Measurement Frequency)</b>				
PYROLINE 128G	128 $\times$ 1	450 °C to 1250 °C	1 K / 3 K	60° (optional 40°)
PYROLINE 256G	256 $\times$ 1			
PYROLINE 128GS	128 $\times$ 1	250 °C to 800 °C		
<b>1.4 <math>\mu</math>m to 1.8 <math>\mu</math>m</b>				
<b>Standard Models (256 Hz Measurement Frequency)</b>				
PYROLINE 128N	128 $\times$ 1	600 °C to 1300 °C	1 K / 3 K	60° (optional 40°, 20°)
PYROLINE 256N	256 $\times$ 1			

### Measurement Uncertainty<sup>2</sup>

2 K (measured temperature < 100 °C) or 1 K + 1 % of the measured value in °C

### Interfaces<sup>3</sup>

Fast Ethernet, optional fibre optics  
electrically isolated digital inputs (trigger) and digital outputs (alarm)

### Camera Housing

Protection to IP 65 Standard. Options include integrated water cooling system and air purge, and fixed or swivel mounting base.  
Wt. approx. 3.2 kg.

### Camera Operating Temperature Range

0 °C to 50 °C (without water-cooling), -25 °C to 150 °C (with water-cooling)

### Software

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> Depending on configuration. PYROLINE 256/512Hz available only with fibre optics interface. Technical details are subject to change without notice. April 2008.

Svensk generalagent och distributör:  
Sensotest AB - Girovägen 13 - 17562 Järfälla  
Tel: 08-56473380 - Fax: 08-56473389 - [www.sensotest.se](http://www.sensotest.se) - [info@sensotest.se](mailto:info@sensotest.se)

DIAS Infrared GmbH · Gostritzer Straße 63 · D-01217 Dresden · Germany

phone: +49 351 8717228 · fax: +49 351 8717230  
e-mail: [info@dias-infrared.de](mailto:info@dias-infrared.de) · internet: [www.dias-infrared.com](http://www.dias-infrared.com)

