

# PYROVIEW 380 & 320 compact

## Industrial Infrared Cameras



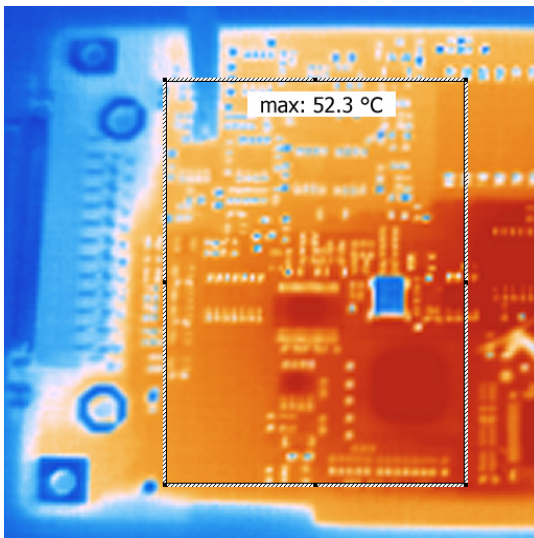
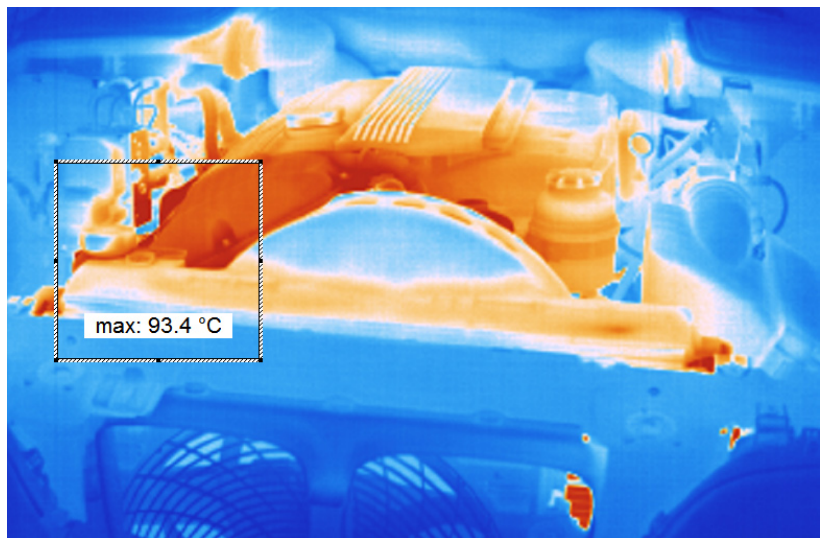
### Features

- Precise non-contact temperature measurement over the range  $-20\text{ }^{\circ}\text{C}$  to  $1250\text{ }^{\circ}\text{C}$  in different spectral ranges
- Measurement frequency 50 frames per second
- Compact housing (to IP 54 Standard)
- Uncooled microbolometer with  $384 \times 288$  pixels or  $320 \times 240$  pixels
- Lenses with different fields of view
- Real-time data acquisition via Fast Ethernet
- Option of stand-alone operation without computer
- Triggered measurements
- Alarm and threshold monitoring
- Large dynamic range
- 16 bit A/D converter
- Customized system solutions with modified hardware and software
- No US export license necessary

### Applications

PYROVIEW compact cameras provide instant non-contact measurement of 2D temperature distributions with high thermal and spatial resolution. All models are specially designed for long-term use in fixed-mount applications.

For general measurements the spectral ranges  $8\text{ }\mu\text{m}$  to  $14\text{ }\mu\text{m}$  and  $3\text{ }\mu\text{m}$  to  $5\text{ }\mu\text{m}$  are available. The spectral range  $4.8\text{ }\mu\text{m}$  to  $5.2\text{ }\mu\text{m}$  has been specially designed for measurements on glass.



### 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 380 & 320 compact

## Industrial Infrared Cameras

| Model  | Spectral Range <sup>1</sup> | Temperature Meas. Range <sup>1</sup>                     | NETD <sup>2</sup>     | Field of View <sup>1</sup>   |
|--|-----------------------------|--|-----------------------|--|
| <b>PYROVIEW 380 compact (384 × 288 pixels)</b> |                             |  |                       |  |
| PYROVIEW 380L compact                          | 8 μm to 14 μm               | Range 1: -20 °C to 120 °C,<br>Range 2: 0 °C to 500 °C    | 0.08 K (30 °C, 50 Hz) | 30° × 23° (optional 59° × 46°,<br>15° × 12°, 10° × 8° <sup>3</sup> ,<br>macro 80 μm) |
| PYROVIEW 380M compact                          | 3 μm to 5 μm                | Range 1: 100 °C to 300 °C,<br>Range 2: 200 °C to 500 °C  | 0.5 K (200 °C, 50 Hz) | 30° × 23° (optional 51° × 40°,<br>15° × 12°)   |
| PYROVIEW 380G compact                          | 4.8 μm to 5.2 μm            | Range 1: 200 °C to 500 °C,<br>Range 2: 400 °C to 1250 °C | 1 K (300 °C, 50 Hz)   | 30° × 23° (optional 51° × 40°,<br>15° × 12°)   |
| PYROVIEW 380F compact                          | 3.9 μm                      | 600 °C to 1250 °C  | 1 K (600 °C, 50 Hz)   | 30° × 23° (optional 51° × 40°,<br>15° × 12°)   |
| <b>PYROVIEW 320 compact (320 × 240 pixels)</b> |                             |  |                       |  |
| PYROVIEW 320L compact                          | 8 μm to 14 μm               | Range 1: -20 °C to 120 °C,<br>Range 2: 0 °C to 500 °C    | 0.08 K (30 °C, 50 Hz) | 25° × 19° (optional 50° × 39°,<br>13° × 10°, 9° × 6° <sup>3</sup> ,<br>macro 80 μm)  |
| PYROVIEW 320M compact                          | 3 μm to 5 μm                | Range 1: 100 °C to 300 °C,<br>Range 2: 200 °C to 500 °C  | 0.5 K (200 °C, 50 Hz) | 25° × 19° (optional 44° × 33°,<br>13° × 10°)   |
| PYROVIEW 320G compact                          | 4.8 μm to 5.2 μm            | Range 1: 200 °C to 500 °C,<br>Range 2: 400 °C to 1250 °C | 1 K (300 °C, 50 Hz)   | 25° × 19° (optional 44° × 33°,<br>13° × 10°)   |
| PYROVIEW 320F compact                          | 3.9 μm                      | 600 °C to 1250 °C  | 1 K (600 °C, 50 Hz)   | 25° × 19° (optional 44° × 33°,<br>13° × 10°)   |

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

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

### Measurement Frequency

internal 50 Hz, selectable: 50 Hz, 25 Hz, 12.5 Hz, ...

### Response Time

internal 40 ms, selectable: 2/measurement frequency

### Interfaces

Fast Ethernet (real time, 50 Hz), optional fibre optics, electrically isolated digital inputs (trigger) and digital outputs (alarm)

### Power Supply

18 V to 36 V DC, typical 7 VA

### Camera Housing

Aluminium compact housing IP 54, optional with industrial housing IP 65 with water cooling system and air purge, weatherproof housing with pan-tilt-unit or ATEX housing

### Dimensions/Weight

85 mm (W) × 175 mm (D) × 107 mm (H), without lens and connectors, approx. 1.6 kg

### Camera Operating Temperature Range

-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> Others available. <sup>2</sup> Specification for black body reference and ambient temperature 25 °C. <sup>3</sup> NETD <0.2 K (30 °C, 50 Hz).

Technical details are subject to change without notice. March 2009.