

PYROVIEW compact

Infrared cameras for universal applications

Non-contact temperature measurements from
-20 °C to 2500 °C



alarm monitoring bulk-materials data export data transmission long-term-use fast-ethernet fire
surveillance fixed-mount food gigabit-ethernet glas high-dyn
mic high-temperature-ranges industry microbolometer-arrays non-contact
per plastics precise quality-control real-time robust Si-CMOS-Array software
steel-industry stand-alone-operation threshold-monitoring trend-analysis two-dimensional

PYROVIEW compact: Non-contact temperature measurement of two-dimensional temperature distributions



Our infrared camera series **PYROVIEW compact** allows you non-contact measurement of two-dimensional temperature distributions with high thermal and spatial resolution. All models are specially designed for longterm use in fixed-mount applications.

For general measurements the spectral ranges from 8 μm to 14 μm and 3 μm to 5 μm are available whereas the spectral range 4.8 μm to 5.2 μm is destined for special glass measurements. The spectral range around 3.9 μm is suitable for measurements through flames and flue gas. High temperatures can be measured at 0.8 μm to 1.1 μm .

Different lenses allow measurement results at the best. With real-time data acquisition via Fast Ethernet and Gigabit-Ethernet respectively images can be transferred to a computer with a test frequency of maximum 50 images per second. Stand-alone operation without computer is possible as well.

Alarm and threshold monitoring as well as triggered measurements belong to the functional range of PYROVIEW compact. The cameras are in an aluminum or a stainless steel compact housing.

We grant you 2 years warranty and customized system solutions with modified hardware and software.

Fast and dynamic: PYROVIEW 380 and 320 compact

Typical applications of our camera series PYROVIEW compact are prozess control and monitoring, quality control, fire surveillance as well as measurements in research and development.

PYROVIEW 380 compact with 384 × 288 pixels

	Spectral range ¹	Measurement range ¹	NETD ²
PYROVIEW 380L compact	8 μm to 14 μm	Range 1: -20 °C to 120 °C Range 2: 0 °C to 500 °C	0.08 K (30 °C, 50 Hz)
PYROVIEW 380M compact	3 μm to 5 μm	Range 1: 100 °C to 300 °C Range 2: 200 °C to 500 °C	0.5 K (200 °C, 50 Hz)
PYROVIEW 380G compact	4.8 μm to 5.2 μm	Range 1: 200 °C to 500 °C Range 2: 400 °C to 1250 °C	1 K (300 °C, 50 Hz)
PYROVIEW 380F compact	3.9 μm	600° C to 1250 °C	1 K (600 °C, 50 Hz)

Optics with motor or manual focussing.

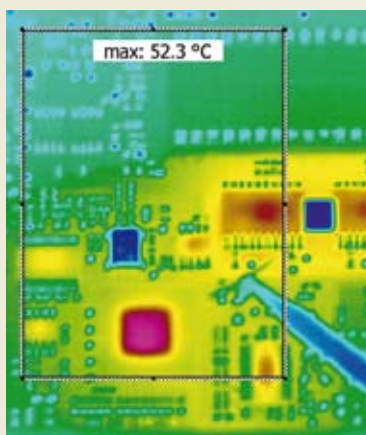
Standard field of view: 30° × 23°

Optional: 43° × 33°, 22° × 16°, 11° × 8°, 7° × 5°³, Macro 60 μm (L-Version)

51° × 40°, 15° × 12° (M-, G-, F-Version)



Paper storage control



Conductor plate

PYROVIEW 320 compact with 320 × 240 pixels

	Spectral range ¹	Measurement range ¹	NETD ²
PYROVIEW 320L compact	8 μm to 14 μm	Range 1: -20 °C to 120 °C Range 2: 0 °C to 500 °C	0.08 K (30 °C, 50 Hz)
PYROVIEW 320M compact	3 μm to 5 μm	Range 1: 100 °C to 300 °C Range 2: 200 °C to 500 °C	0.5 K (200 °C, 50 Hz)
PYROVIEW 320G compact	4.8 μm to 5.2 μm	Range 1: 200 °C to 500 °C Range 2: 400 °C to 1250 °C	1 K (300 °C, 50 Hz)
PYROVIEW 320F compact	3.9 μm	600° C bis 1250 °C	1 K (600 °C, 50 Hz)

Optics with motor or manual focussing.

Standard field of view: 25° × 19°

Optional: 37° × 28°, 18° × 14°, 9° × 7°, 6° × 5°, Macro 60 μm (L-Version)

44° × 33°, 13° × 10° (M-, G-, F-Version)

made in Germany.

Reliable, robust, accurate and high-definition: PYROVIEW 640 compact



Fire surveillance

PYROVIEW 640L compact with 640 × 480 pixels

	Spectral range ¹	Measurement range ¹	NETD ²
PYROVIEW 640L compact	8 μm to 14 μm	Range 1: -20 °C to 120 °C Range 2: 0 °C to 500 °C	0.08 K (30 °C, 50 Hz)

Optics with motor or manual focussing.
Standard field of view 36° × 27°
Optional 18° × 14°, 12° × 9°, macro lens 60 μm

PYROVIEW 640N compact with 640 × 480 pixels

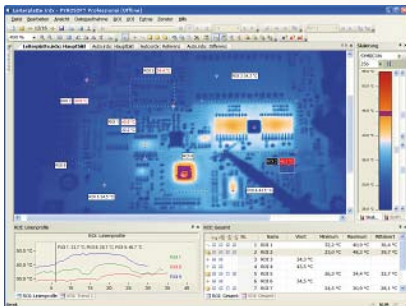
	Spectral range ¹	Measurement range ¹	NETD ²
PYROVIEW 640N compact	0.8 μm to 1.1 μm	600 °C to 1500 °C, optional 2500 °C	<2 K (600 °C, 25 Hz)

Optics with manual focussing.
Standard field of view 32° × 24°
Optional 46° × 35°, 23° × 17°, 17° × 13°, borescope lens 71° × 55° (PYROINC 640N)



Extensive accessories

Software PYROSOFT



The powerful online software PYROSOFT for Windows® allows you to control the infrared camera PYROVIEW compact. Recording, viewing, manipulation and storage of the measured data are possible as well. 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.

Optional camera housings



Industrial housing IP 65 with water cooling system and air purge



ATEX housing



Water cooling housing



Weatherproof housing with pan-tilt-unit

¹ Others available. ² Specification for black body reference and ambient temperature 25 °C.

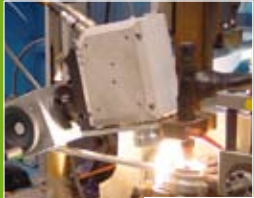
³ NETD < 0,2 K (30 °C, 50 Hz). ⁴ Gigabit-Ethernet (PYROVIEW 640L compact), otherwise Fast Ethernet

Your manufacturer and partner
for industrial infrared systems

- R & D, manufacturing, sales, and service from one source
- German quality and reliability
- Two years warranty
- Certified to ISO 9001 for many years

Our product range includes:

- Pyrometers
- Infrared line cameras
- Thermal imaging cameras
- Infrared detectors
- Measurement and calibration equipment
- System solutions



Our dedicated experts are able to offer you the benefits of 25 years of practical and technical experience in infrared technology.

For any questions contact us!

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certificated after
ISO 9001:2008

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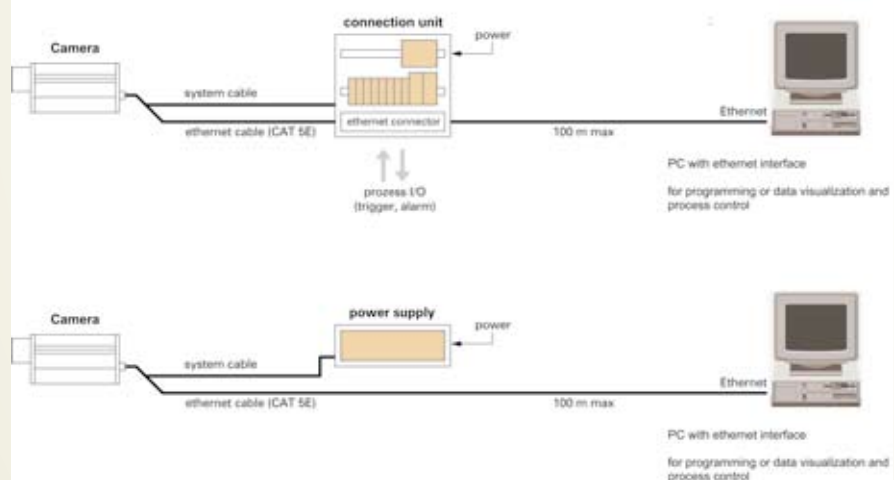
Technical details are subject to change.
March 2010.

More technical data

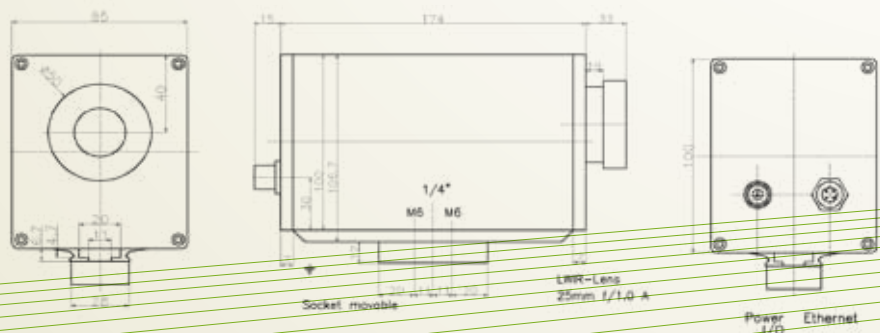
	PYROVIEW 320, 380 und 640L compact	PYROVIEW 640N compact
Sensor	Uncooled microbolometer array	High dynamic 2D Si-CMOS-array (640 × 480 pixels)
Measurement uncertainty²	2 K (measured temperature < 100 °C) or 2 % of measured value	2 % of measured value (object temperature < 1000 °C)
Measurement frequency	Internal 50 Hz, selectable: 50 Hz, 25 Hz, 12.5 Hz,...	Internal 25 Hz, selectable: 25 Hz, 12.5 Hz, 6.25 Hz,...
Response time	Internal 40 ms, selectable: 2/measurement frequency	Internal 80 ms, selectable: 2/measurement frequency
Interfaces	Ethernet ⁴ (real-time 50 Hz)	Fast Ethernet (real-time 25 Hz)
Digital inputs	2 electrically isolated digital inputs (trigger)	
Digital outputs	2 electrically isolated digital outputs (alarm)	
Power supply	10 V to 36 V DC, typical 4 VA to 10 VA	
Camera housing	Aluminium compact housing IP 54	Stainless steel compact housing
Dimensions	85 mm (L) × 175 mm (W) × 107 mm (H), without lens and connectors	60 mm (L) × 160 mm (W) × 60 mm (H), without lens and connectors,
Operating temperature range	-10 °C to 50 °C	
Storage conditions	-20 °C to 70 °C, 95 % relative humidity	

¹ Others available. ² Specification for black body reference and ambient temperature 25 °C. ³ NETD < 0.2 K (30 °C, 50 Hz). ⁴ Gigabit-Ethernet (PYROVIEW 640L compact), otherwise Fast Ethernet

System configuration with Ethernet interface



Dimensions



PYROVIEW 320, 380 and 640L compact