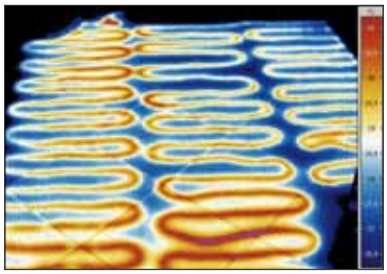
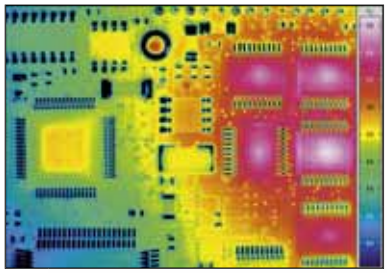
VarioCAM®

Portable thermographic system for use in industry and research

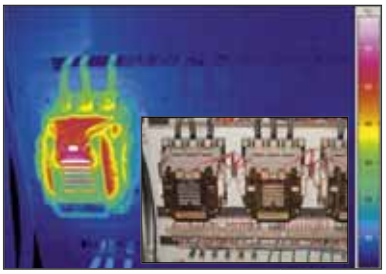
Floor heating system



Printed circuit board

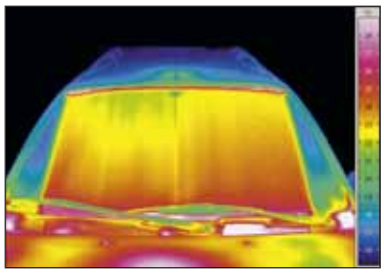


Switchboard

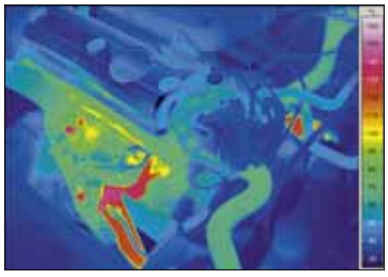


Engine diagnostics

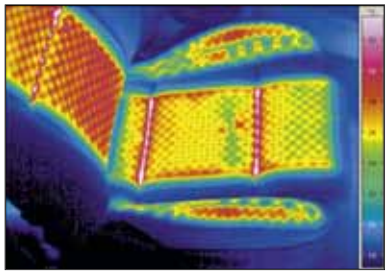
Windscreen heating



Car engine



Seat heating



Features

- uncooled Microbolometer FPA Detector with (320 x 240) pixels
- hardware-based optical resolution enhancement
- wide standard temperature measuring range
- 50/60 Hz real-time thermography
- PC based remote control via RS232
- real-time digital interface via FireWire (IEEE 1394)
- rugged light metal housing (IP 54)
- compact design, lightweight, suitable for various applications
- integrated colour video camera
- adjustable high-resolution colour TFT viewfinder
- daylight-suited 3.8”-active-colour TFT display
- rechargeable Li-Ion battery, operating time ~3 h
- numerous AUTO functions to simplify handling
- CF-card for image storage
- digital voice recording
- easy handling

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Portable thermographic system for use in industry and research

Technical specifications

Spectral range	(7,5 ... 14) µm
Image principle, image format (pixel)	Focal Plane Array, (320 x 240)
Detektor type	Microbolometer, uncooled
Temperature measurement range	(- 40 ... 1.200) °C, optional > 2.000 °C
Measurement accuracy	±2 K, ±2 %
Temperature resolution @ 30 °C	better than 0.08 K
IR-frame rate	50/60 Hz
Standard lens, object field	25 mm (32 x 25)°
Image storage	CF-card, optional FireWire (IEEE 1394)
Dynamic range	16 Bit
Interfaces	PAL/NTSC-FBAS, S-Video, RS232, optional FireWire (IEEE 1394)
Power supply	fast rechargeable Li-Ion battery (operating time approx. 3 h)
Operation temperature, encapsulation	(-15 ... 50) °C, IP 54
Dimensions (complete system)	(235 x 185 x 110) mm
Weight	approx. 2,2 kg

Specifications subject to change without prior notice

VarioCAM® is an easy-to-use portable, lightweight and rugged thermographic system based on an uncooled Microbolometer FPA Detector with (320 x 240) pixels. The optical resolution can be optionally hardware-based enhanced to (640 x 480) pixels – the highest available for uncooled infrared cameras.

A bright daylight-suited colour display provides thermographic images with ultimate brilliance and allows simultaneously an overview of the current measuring conditions. The additional colour video camera as well as the text annotation and voice recording capabilities make VarioCAM® an ideal tool for preventive maintenance and thermal inspections. The latest Lithium-Ion batteries and a low power consumption allow a long operating time.

VarioCAM® offers a wide standard measuring range, various additional lenses and a large assortment of accessories. Numerous automated functions and integrated measurings features assist the operator and help to concentrate on the measuring task. The optional FireWire interface makes VarioCAM® a highly efficient tool for thermographic real-time analysis in research and development.

Applications

- preventive maintenance of plants and assemblies
- inspections of electrical installations
- real-time thermography in R & D
- building thermography
- quality assurance
- process monitoring
- leakage detection
- medical diagnostics

Lenses

Lens	Focal distance	min. Focus	FOV (°)
Wide angle lens	12,5 mm	0,2 m	(64 x 50)
Standard lens	25 mm	0,5 m	(32 x 25)
Telephoto lens	50 mm	2,0 m	(16 x 12)

Close-Up Lenses (for standard lens)

Close-up lens	Focus	Image field
0,17x	149 mm	(87 x 66) mm²
0,5x	50 mm	(28 x 22) mm²

Manufactured by

JENOPTIK GERMANY Laser, Optik, Systeme GmbH
www.jenoptik-los.de