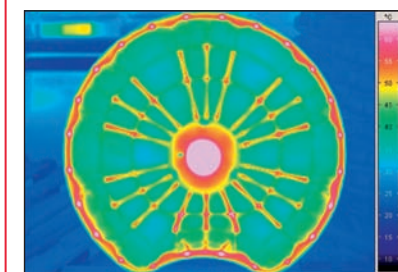


# VarioCAM® high resolution

Mobile thermographic camera for professional and universal usage



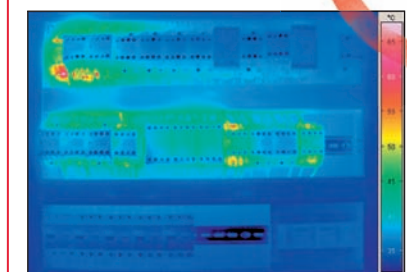
Process optimisation



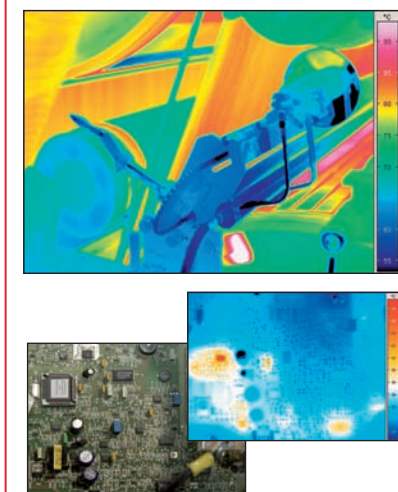
Quality control



Inspection of electrical installations

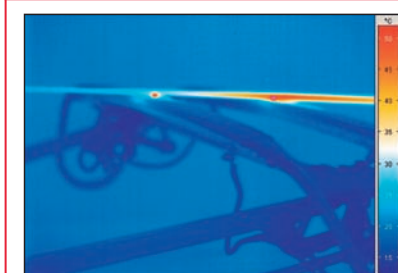


Temperature monitoring

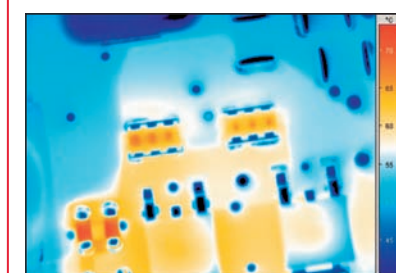


1,280 x 960  
IR-Pixel\*

Optimisation of components



Improvement of PCBs



Building inspection



## Features\*

- uncooled detector with (384 x 288) or (640 x 480) infrared pixels
- hardware-based generation up to (1,280 x 960) infrared pixels
- digital real-time FireWire (IEEE 1394) interface up to 60 Hz
- internal real-time memory for more than 850 images
- image storage on SD-card
- daylight-suited digital 3.5" active colour TFT display
- rugged lightweight metal housing (IP 54) for use in tough industrial environments
- voice and text annotation
- wide standard temperature measuring range
- latest generation Li-Ion battery, operating time up to 3 h
- wide angle, telephoto and close-up lenses
- built-in digital colour video camera with LED video light
- laser pointer for marking objects
- convenient firmware with various measuring functions
- easy handling, numerous automatic functions

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Mobile thermographic camera for professional and universal usage

## Technical specifications \*

Spectral range	(7.5 ... 14) $\mu\text{m}$
Detector	uncooled microbolometer Focal Plane Array
Detector format (pixel)	(384 x 288), Resolution Enhancement to (768 x 576) (640 x 480), Resolution Enhancement to (1,280 x 960)
Temperature measuring range	(-40 ... 1,200) $^{\circ}\text{C}$ , optional > 2,000 $^{\circ}\text{C}$
Measurement accuracy	$\pm 1.5 \text{ K}$ (0 ... 100) $^{\circ}\text{C}$ ; $\pm 2 \%$ (< 0 resp. > 100) $^{\circ}\text{C}$
Temperature resolution @ 30 $^{\circ}\text{C}$	better than 0.08 K to 0.05 K (premium mode)
IR-frame rate	50/60 Hz
Digital colour video camera	1.3 megapixels, with a LED video light
Standard lens, field of view	1.0/25 mm (30 x 23) $^{\circ}$ with a detector of (384 x 288) pixels 1.0/30 mm (30 x 23) $^{\circ}$ with a detector of (640 x 480) pixels
Image storage	SD-card, FireWire (IEEE 1394) up to 50/60 Hz, internal real-time storage
Dynamic range	16 Bit
Interfaces	PAL/NTSC-FBAS, S-Video, RS232, FireWire (IEEE 1394), WLAN
Power supply	commercial Li-Ion battery (quick rechargeable, with status display)
Laser pointer	red semiconductor laser, laser protection class 2
Operation temperature, encapsulation	(-15 ... 50) $^{\circ}\text{C}$ , IP 54
Dimensions	(133 x 106 x 110) mm
Weight	1.5 kg (completely equipped)

\* Properties and technical specifications are dependent on the camera configuration and vary in the equipment packages VarioCAM<sup>®</sup> basic, inspect and research. Design and specifications will constantly be improved and thus be subject to technical progress.

The family of thermographic cameras VarioCAM<sup>®</sup> high resolution offers high-performance in a portable camera, equipped with the latest generation uncooled microbolometer FPA detectors. The modular design concept means the cameras can be delivered with different configurations of additional equipment depending on specification and application.

VarioCAM<sup>®</sup> high resolution is an effective easy to use tool for challenging thermal measurements in many applications ranging from predictive maintenance to process optimisation, quality assurance and building inspection, etc.

The unique resolution enhancement feature can achieve a hardware based geometric resolution of up to 1.23 mega pixels - the highest resolution available with an instrument of this type. Visualisation of the live image and the current operating mode of the camera is possible in two ways either using the bright daylight suited colour TFT display or the high resolution colour viewfinder with dioptr adjustment. A long mobile operating time is possible due to the low power consumption of the camera and the replaceable and quick rechargeable Lithium-Ion batteries.



Produced by



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