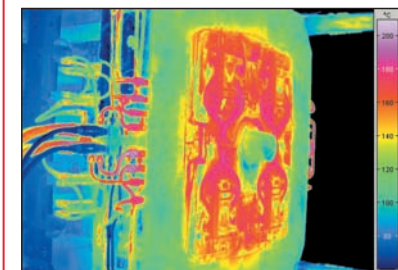


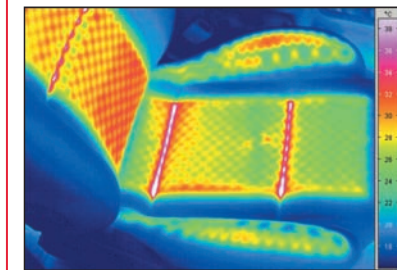
VarioCAM[®] hr inspect

Mobile thermographic camera for professional inspections

Process optimization



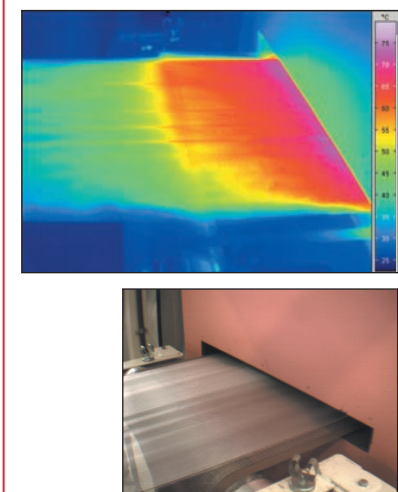
Quality control



Inspection of electrical installations

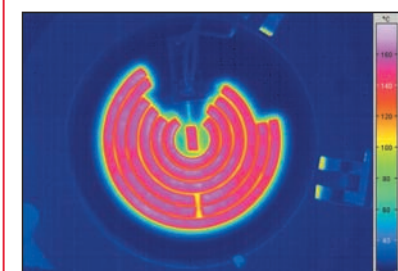


Temperature monitoring

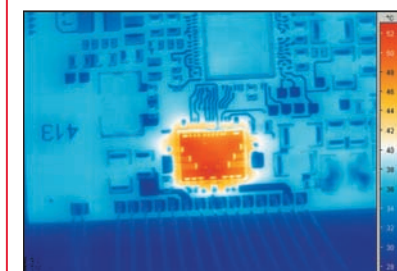


up to
1,280 x 960
Infrared pixels

Optimization of components



Improvement of PCBs



Building inspection



Features

- uncooled Microbolometer FPA Detector with (384 x 288) or (640 x 480) pixels
- optomechanic microscan function provides up to (1,280 x 960) infrared pixels
- optional real-time digital interface (FireWire/IEEE 1394)
- integrated real-time memory up to 60 Hz
- daylight-suited digital 3.5" active colour TFT display
- adjustable high-resolution colour TFT viewfinder
- rugged lightweight metal housing (IP 54) for use in tough industrial environments
- wide standard temperature measuring range
- latest Li-Ion battery generation, operating time up to 3h
- wide angle, tele and close-up lenses
- image storage on SD-card
- built-in digital colour video camera with a LED video light
- voice and text annotation
- comfortable firmware with many measuring functions
- easy handling, numerous automatic functions
- merging of infrared and visible image

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VarioCAM[®] hr inspect

Mobile thermographic camera for professional inspections

Technical specifications

Spectral range	(7.5 ... 14) μm
Detector	Microbolometer Focal Plane Array, uncooled
Detector format (pixel)	(384 x 288), optional „Resolution Enhancement“ to (768 x 576) (640 x 480), optional „Resolution Enhancement“ to (1,280 x 960)
Temperature measurement 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 or 0.05 K at premium mode
IR-frame rate	50/60 Hz
Digital colour video camera	1.3 megapixels, with a LED video light
Standard lens (object field)	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, optional FireWire (IEEE 1394), integrated real-time memory
Dynamic range	16 Bit
Interfaces	PAL/NTSC-FBAS, S-Video, RS232, optional FireWire (IEEE 1394)
Power supply	standard, off-the-shelf Li-Ion battery (fast rechargeable, with status display)
Laser	red semiconductor, 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 (complete system)

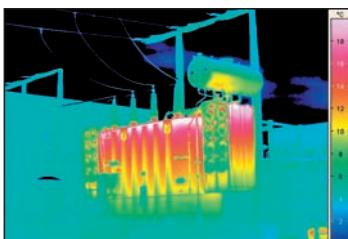
Design and specifications subject to change without prior notice

The product range VarioCAM[®] high resolution consists of a series of high-performance thermographic cameras based on a state-of-the-art uncooled Microbolometer FPA Detector of the latest generation. Being based on a modular concept, it can be offered in many different versions according to each and every application.

VarioCAM[®] hr inspect is an efficient universal tool meant to fulfill challenging measuring tasks in various application fields, from predictive maintenance to process optimization, improvement of PCBs, quality control and building thermography.

The exclusively offered optional opto-mechanic „Resolution Enhancement“ mode provides a hardware-based geometrical resolution of up to 1.23 Megapixels – actually the highest resolution in this class of thermographic systems.

The digital, daylight-suited display delivers bright and rich contrast thermal images as well as an overview of the measuring parameters and camera status. The visualisation can also be performed by the integrated high-resolution colour viewfinder with dioptr adjustment. The quick-charge Li-Ion battery in addition to a low energy consumption ensure a long working autonomy of the camera.



infrared image of a transformer



real image of a transformer



merging of infrared and real image

Produced by



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