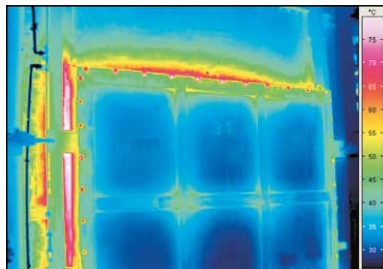


# VarioCAM<sup>®</sup> hr basic

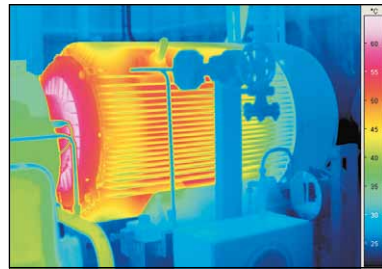
Mobile thermographic camera – the powerful entry level model

**NEW** 0.035 K Thermal Resolution

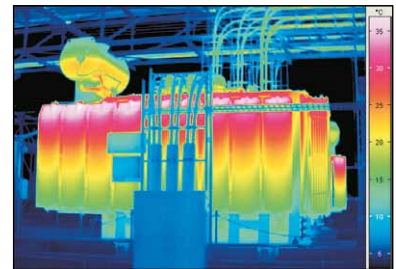
Inspection of facilities



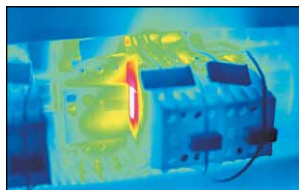
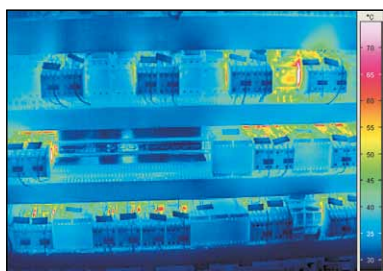
Diagnostics of engines



Inspection of power plants



Control cabinet inspection



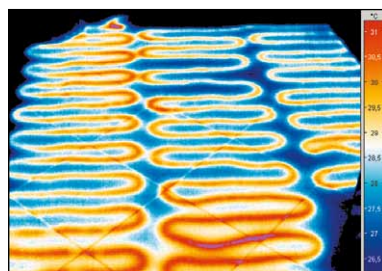
Detailed view (hot spot)



Condition monitoring



Localisation of tubes



Building inspection



## Features

- uncooled Microbolometer FPA Detector with (320 x 240) pixels
- spectral range (7.5 ... 14) μm
- 50/60 Hz frame rate
- digital real-time interface (FireWire/IEEE 1394) (optional)
- adjustable high-resolution colour TFT viewfinder
- detachable high-resolution colour display (optional)
- rugged, lightweight metal housing (IP 54)
- compact design for single handed operation
- various standard temperature measuring ranges
- rechargeable Li-Ion battery, operating time ~3 h
- wide angle, telephoto and close-up lenses available
- image storage on SD-card (up to 4 GB)
- text annotation capability
- easy handling, numerous automatic functions
- wide range of accessories
- modular design

\*Product similar to displayed.  
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# VarioCAM<sup>®</sup> hr basic

Mobile thermographic camera – the powerful entry level model

## Technical specifications

Spectral range	(7.5 ... 14) $\mu\text{m}$
Detector	Microbolometer Focal Plane Array, uncooled
Detector format (pixel)	(320 x 240)
Temperature measurement range	(-40 ... 120) $^{\circ}\text{C}$ , optional up to 1,200 $^{\circ}\text{C}$
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 0.05 K, optional 0.035 K
IR-frame rate	50/60 Hz
Standard lens (object field)	25 mm (25 x 19) $^{\circ}$
Image storage	SD-card
Dynamic range	16 Bit
Interfaces	PAL/NTSC-FBAS, S-Video, RS232, FireWire (IEEE 1394)
Power supply	standard, off-the-shelf Li-Ion battery (fast rechargeable, with status display)
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 line VarioCAM<sup>®</sup> high resolution stands for powerful, mobile and easy-to-use thermographic cameras, equipped with uncooled Microbolometer FPA Detectors of the latest generation. The modular design allows for optimal adjustment of the camera configuration to the special application needs.

The entry version of VarioCAM<sup>®</sup> hr basic enables the customer to go for infrared thermography at an excellent price/performance ratio with a long-term perspective to upgrade the camera for universal use.

The thermographic images are displayed with high quality in an adjustable, high-resolution colour viewfinder which simultaneously provides an overview of the current measuring conditions. By request VarioCAM<sup>®</sup> hr basic can be equipped additionally with a daylight-suited digital TFT display. Replaceable, fast rechargeable Li-Ion batteries and a very low power consumption ensure a long working autonomy of the camera.

VarioCAM<sup>®</sup> hr basic is offered with various detector formats and temperature measuring ranges, which can be extended. It will be delivered with high-quality infrared lenses, powerful tools of the thermography software suite IRBIS<sup>®</sup> 3 and a wide range of accessories. VarioCAM<sup>®</sup> hr basic therefore is especially suited as a cost-effective entry level camera for convenient thermographic temperature measurements in a wide range of applications – from predictive maintenance and condition monitoring to leakage localization and building inspection.



\*Products similar to displayed.

Produced by



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