

# Thermographic system VARIOSCAN high resolution

## VARIOSCAN **hr** compact

Compact equipment for portable use

## VARIOSCAN **hr** universal

For portable use as well as PC controlled

## VARIOSCAN **hr** PC

PC controlled (WINDOWS)



## VARIOSCAN 3021

highest thermal and geometric resolution  
spectral range 8 - 12  $\mu\text{m}$   
detector cooling LN<sub>2</sub>

## VARIOSCAN 3021 ST

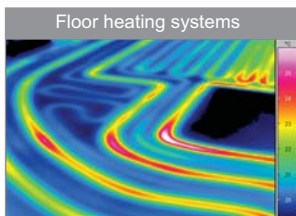
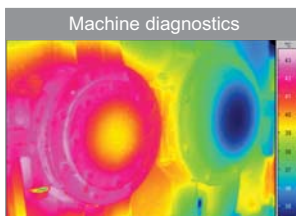
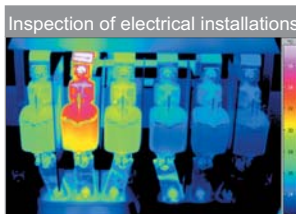
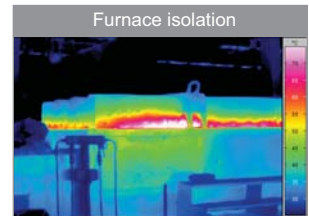
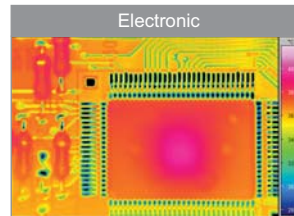
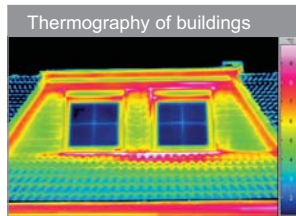
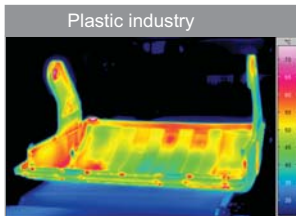
highest thermal and geometric resolution  
spectral range 8 - 12  $\mu\text{m}$   
Stirling cooler

## VARIOSCAN 3022

excellent price-performance ratio  
spectral range 2 - 5  $\mu\text{m}$   
thermoelectric cooling

- 9 versions available for different requirements
- highest geometric resolution with (360 x 240) pixel
- excellent image quality and high homogeneity
- easy and convenient handling
- several measurement and automatic functions
- Ethernet Interface (optional)

# Thermographic system VARIOSCAN high resolution



VARIOSCAN high resolution with approved MCT-single-element-detector technology stands out due to an excellent thermal resolution, long-term stability and high measuring accuracy. High-precision scanner technology delivers clear images with very high picture homogeneity especially at small temperature differences too. The high geometric resolution of 86400 pixel per image and small pixel diameter allow a detailed resolution of small units. The bright TFT colour display enables specific evaluation of measuring objects in the field and under hard conditions too.

The user interface is menu driven and supported by a series of automatic functions. Thermograms can be stored easily on the internal memory of the camera or on an external Compact Flash card by a single key stroke. The robust casing guarantees a reliable operation in daily use.

VARIOSCAN high resolution can be used stand alone as well as PC-controlled with well established Ethernet-Interface. The stored 16 bit digitised thermograms can be evaluated by capable thermographical analysis software IRBIS® in different versions. The wide standard calibration range and optional control via Ethernet make the system universally useable in all kinds of application in laboratory, process control, research and development.

VARIOSCAN high resolution is especially suitable for the analysis of sophisticated measuring tasks in building- and energy industry, leakage search, for preventive maintenance and in medicine.

Technical data	3021	3021 ST	3022
Spectral range	8 – 12 µm		2 – 5 µm
Detector cooling	LN <sub>2</sub>	Stirling	thermoelectric
Temperature range	-40 – 1200 °C *		-10 – 1200 °C *
Thermal resolution	±0.03 K		±0.12 K
Geometrical resolution	1.5 mrad		3.0 mrad
Number of Pixel	complete image (360 x 240) Pixel partial image (300 x 200), (300 x 100), (300 x 50) Pixel		
Image refresh frequency	1 Hz, 2 Hz and 5 Hz		
Field of view	(30 x 20)° to (5 x 3.3)°, with electro-optical zoom		
Colour display	4.5"-TFT (activ)		
Power supply	220 V or rechargeable Li-Ion battery, min. 3 hours continuous operation		
Storage media	internal memory SRAM / removable Compact Flash card		

\* - optionally calibrated > 2000 °C

Specifications subject to change without prior notice