

Excellence through light.

VarioTHERM™ head.

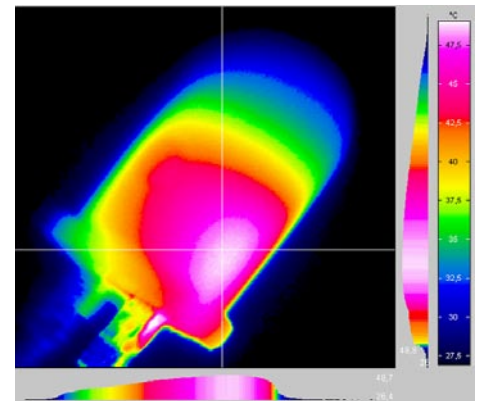
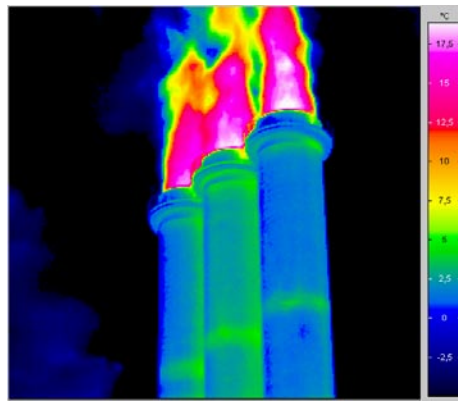
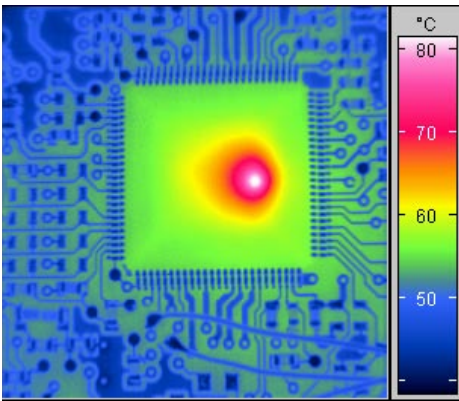
Shortwave thermography system
for real-time analysis in industry & science.



1.8 – 5 μm .

Very easy to use.

Superior industry design.



Measured results of unique precision. Very easy to use.

Low-noise electronics and specially coated quality optics from Jena for excellent image quality.

Impressive image homogeneity warrants reliable results of measurement.

16-bit dynamic range for best possible measuring accuracy.

Real-time frame rate (of 50 Hz) facilitates analysis of processes happening in quick succession.

Special camera cooling layout for optimised long-time stability in continuous operation mode.

FireWire interface for quick and easy integration.

Large spectral range for a great variety of analytical options.

Integrated filter wheel with custom-adapted spectral filters for wavelength-selective image capturing.

Broad standard measuring range for flexible use.

User-friendly software packages for real-time image acquisition, process control and comprehensive thermogram analysis.

Exacting applications.

Thermography on & through glass (e.g. molten glass, lamp manufacturing).

Plastic reforming processes (e.g. film extrusion).

Inspection of metal surfaces (e.g. in laser machining).

Flame & gas analysis.

Research & development.

VarioTHERM™ head.

Shortwave thermography system
for real-time analysis in industry & science.

Technical Data

| | |
|--|--|
| Type of detector, image format | Cooled PtSi, 256 x 256 pixels |
| Spectral sensitivity | 1.8 µm... 5 µm |
| Temperature measurement range | -25 °C ... +1200 °C, optionally up to 2500 °C -13 °F ... +2192 °F, optionally up to 4530 °F |
| Thermal resolution (at 30° object temperature) | <100 mK (< 20 mK in Sensitivity Improvement mode) |
| Measurement accuracy | ±2 K, ±2% |
| Emissivity | Adjustable from 0.1 to 1.0 in steps of 0.01 |
| FOV/min. object distance/geometrical resolution | 14° x 14° / 1.0 mrad / 0.4 m (standard lens) |
| IR Image rate | 50 Hz |
| Dynamic range | 16 bit |
| Image storage | CF-card, FireWire (IEEE 1394) |
| Power supply | 12 V external |
| Interfaces | FireWire (IEEE-1394): Real-time data transfer & remote control, RS 232: Remote control S-VHS, C-Video (PAL): External display |
| Protection | IP 65, IEC 529 |
| Operating temperature range Storage temperature range | -15°C...+50°C / +14 °F ... +122 °F -40°C...+70°C / -13 °F ... +149 °F |
| Functions | Up to 10 measurement areas, zoom, up to 10 isotherms, freeze mode, adjustable emissivity, online-averaging, image filter, autosave, autorange, autoimage |
| Dimensions (LxWxH) | 194 mm x 110 mm x 126 mm |
| Weight | 2.6 kg |
| Additional lenses | Wide-angle 1.4/25 mm 28° x 28° 2.0 mrad 0.2 m (min. focus) Telephoto 1 1.3/50 mm 7° x 7° 0.5 mrad 1 m (min. focus) Telephoto 2 1.3/100 mm 3.5° x 3.5° 0.25 mrad 1.5 m (min. focus) Close-up 1 1.0x 6 x 6 mm ² 25 µm 230 mm*) Close-up 2 2.5x 2.6 x 2.6 mm ² 10 µm 21 mm*) *) working distance |

Product design and specifications are subject to continuous ongoing development.
We reserve the right to make changes in the interest of technical progress.

Contact the experts.

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