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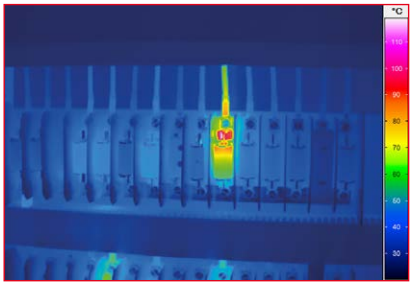


Inspection of electrical installations

With the new mobileIR 400 inspection tasks can be solved flexibly and efficiently

mobileIR 400

Handheld Thermographic Camera for Professional Inspections

384 × 288 Detector

Detector Format
High resolution thermal images for temperature measurement

4" Display

High-resolution Display and Viewfinder
Convenient camera operation and on-site evaluation even in difficult environmental conditions

±2 %

Measurement Accuracy
Precise and highly repeatable measurements

384 × 288 60 Hz

Full Frame Rate
Analysis of high-speed dynamic temperature changes and processes using maximum detector format

IP54

Protection Degree
Constant excellent optical and metrological performance even in harsh industrial environments

≥ 45 mK

Thermal Resolution
Precise detection of smallest temperature differences

The **mobileIR 400** is a powerful as well as cost-effective thermographic camera for mobile applications. It combines a robust, ergonomic design with an intuitively learnable, understandable concept for single-handed operation. Its **digital, daylight compatible 4"-touchscreen with (480 × 800) IR pixels** reproduces the thermal images with high brilliance and provides a good overview of the current measuring situation and the operating state of the camera. The replaceable, fast chargeable **Lithium-Ion battery** ensures a long service life.

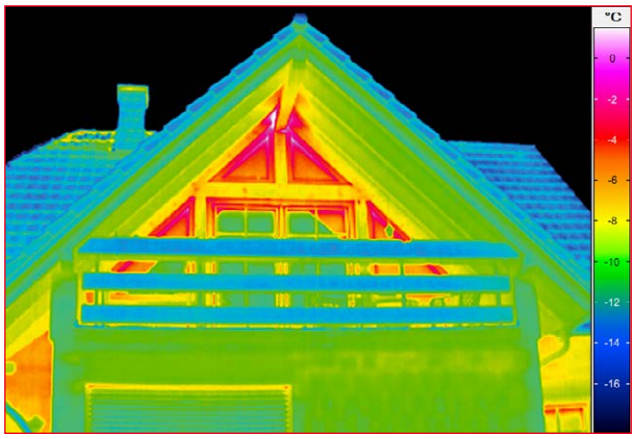
Thanks to the **detector in the format (384 × 288) IR pixels** the strength of the mobileIR 400 in terms of geometrical resolution is a factor of 1.5 when compared with conventional standard formats of this camera segment. This means that users can solve detailed measuring tasks faster and more efficiently. The optional merging of thermal and real images as well as a laser pointer offer added comfort when accurately capturing objects. The supplied **IRBIS® 3 evaluation software** allows the easy analysis of measurement data. The complete measurement report can be generated immediately with the integrated report generator. The wide **temperature measuring range up to 1,500 °C*,** the extensive features and simple operation are helping this camera to quickly become a trusted companion for the capturing of thermal images in many fields of application including preventive maintenance, process optimisation and quality assurance as well as building thermography and leakage detection.

Technical Specifications

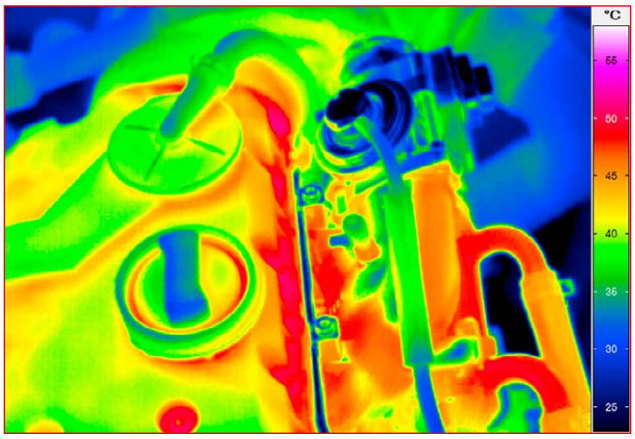
Spectral range	(8 … 14) µm
Pitch	25 µm
Detector	Uncooled Microbolometer Focal Plane Array
Detector format (IR pixels)	(384 × 288)
Temperature measuring range	(-20 … 650) °C, to 1,500 °C*
Measurement accuracy	±2 °C or ±2 %
Temperature resolution @ 30 °C	Up to 0.045 K
Frame rate	60 Hz, 9 Hz*
Storage media	SDHC Card, 16 GB internal memory
Real-time storage	Yes: recording non radiometric thermal images (MPEG)
Focus	Manual
Zoom	Up to 4×
Minimum object distance (standard lens)	50 cm
Digital colour video camera	5 Megapixels
Interfaces	Micro-USB, Mini-HDMI, WLAN
Power supply	AC adapter, Lithium-Ion battery
Integrated microphone and speaker	Yes
Laser pointer	Yes
Display	4" colour TFT display (480 × 800) pixels, touchscreen
Single-handed operation	Yes
Storage and operation temperature	(-40 … 70) °C, (-10 … 50) °C
Protection degree	IP54
Impact strength / vibration resistance in operation	25G, IEC 60068-2-29; 2G, IEC 60068-2-6
Dimensions; weight	(274 × 110 × 78) mm; 0.65 kg without Lithium-Ion battery
Automatic functions	Temperature level and temperature range, alarm: visual and acoustic
Measurement functions	Global hot / cold spot display, center spot, 5 free choosable, movable measurement fields (line, rectangle, circle, ellipse)
Further functions	WLAN remote control, transmission of live images, internal report generator
Analysis and evaluation software	IRBIS® 3

* Depending on model

Lens	Focal length (mm)	FOV (°)
Wide-angle lens	9	(57 × 45)
Standard lens	19	(29 × 22)
Telephoto lens	40	(14 × 10)



Building thermography



Stress test

Headquarters

InfraTec GmbH
Infrarotsensorik und Messtechnik
Gostritzer Straße 61 – 63
01217 Dresden / GERMANY

Phone +49 351 82876-610
Fax +49 351 82876-543
E-mail thermo@InfraTec.de
www.InfraTec.eu

USA office

InfraTec infrared LLC
5048 Tennyson Pkwy.
Plano TX 75024 / USA

Phone +1 844-226-3722 (toll free)
E-mail thermo@InfraTec-infrared.com
www.InfraTec-infrared.com