

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
x
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

60 Hz
Fullframe

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 **mobileIR400** 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 x 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 x 288) IR pixels** the strength of the mobileIR400 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

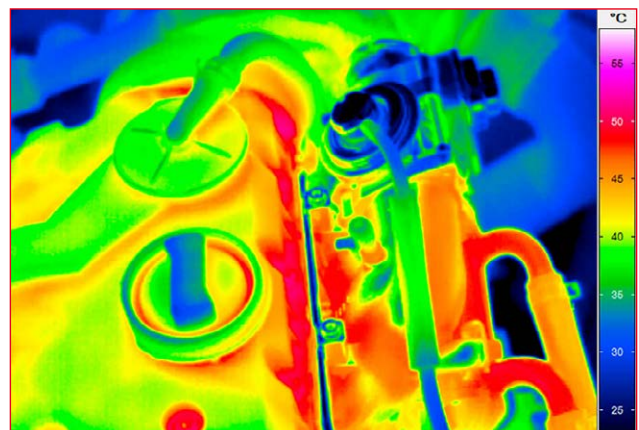
Spectral range	(8 ... 14) μm
Pitch	25 μm
Detector	Uncooled Microbolometer Focal Plane Array
Detector format (IR pixels)	(384 \times 288)
Temperature measuring range	(-20 ... 650) $^{\circ}\text{C}$, to 1,500 $^{\circ}\text{C}$ *
Measurement accuracy	$\pm 2^{\circ}\text{C}$ or $\pm 2\%$
Temperature resolution @ 30 $^{\circ}\text{C}$	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 \times
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 \times 800) pixels, touchscreen
Single-handed operation	Yes
Storage and operation temperature	(-40 ... 70) $^{\circ}\text{C}$, (-10 ... 50) $^{\circ}\text{C}$
Protection degree	IP54
Impact strength/vibration resistance in operation	25G, IEC 60068-2-29; 2G, IEC 60068-2-6
Dimensions; weight	(274 \times 110 \times 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 ($^{\circ}$)
Wide-angle lens	9	(57 \times 45)
Standard lens	19	(29 \times 22)
Telephoto lens	40	(14 \times 10)



Building thermography



Stress test

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