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.

mobileIR 400
Handheld Thermographic Camera for Professional Inspections

Detector Format
High resolution thermal images for temperature measurement

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

Measurement Accuracy
Precise and highly repeatable measurements

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

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

Thermal Resolution
Precise detection of smallest temperature differences

With the new mobileIR 400 inspection tasks can be solved flexibly and efficiently
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
Dimensions; weight: (240 × 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

<table>
<thead>
<tr>
<th>Lens</th>
<th>Focal length (mm)</th>
<th>FOV (°)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wide-angle lens</td>
<td>9</td>
<td>(57 × 45)</td>
</tr>
<tr>
<td>Standard lens</td>
<td>19</td>
<td>(29 × 22)</td>
</tr>
<tr>
<td>Telephoto lens</td>
<td>40</td>
<td>(14 × 10)</td>
</tr>
</tbody>
</table>

Building thermography

Stress test