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 x 288)
Temperature measuring range -20 ... 650 °C, up 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 4x
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
Display 4" colour TFT display (480 x 800) pixels, touchscreen
Display language Yes
Single-handed operation Yes
Storage and operation temperature (-40 ... 70) °C, (-10 ... 50) °C
Protection degree IP54
Dimensions; weight (274 x 110 x 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

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

* Depending on model