



compactIR 400

Powerful Entry Level Camera for Building Thermography and Maintenance

**384
x
288**
Detector

Detector Format
High resolution thermal images
for temperature measurement

5"
Display

High-resolution 5" TFT Display
Representation of the images in native resolution;
180° rotatable and 270° revolvable, daylight suited

**±2
%**

Measurement Accuracy
Precise and highly
repeatable measurements



Complete Optical Assortment
Adaptation of the image geometry
to almost every measuring situation

IP54

Protection Degree
Constant excellent optical and metrological per-
formance even in harsh industrial environments

**≥ 45
mK**

Thermal Resolution
Precise detection of smallest
temperature differences

The handheld **compactIR 400** thermographic camera extends the segment of the entry level cameras by a **detector format of (384 x 288) IR pixels**. The geometrical resolution exceeds those of cameras with standard formats by 1.5 times and means less work for users during the measurements. Apart from the detector format, the thermal resolution also achieves a level that stands out among cameras of this performance class. **Temperature differences of 0.045 K** can be detected reliably. You can see how easily the compactIR 400 can be operated, for example, when taking overhead thermal images or when inspecting objects that are difficult to access. The **lens unit can be tilted up to 70°** and thus simplifies work considerably when inconvenient angles impair the perfect shot of a subject. If you want to see whether your shot was successful, this is indicated by the **5" colour TFT display with (1,280 x 720) pixels**, which also serves as a **touchscreen** and is **rotatable up to 180° and revolvable up to 270°**. Thanks to this flexibility, the camera is ideally suited for use in the **maintenance of mechanical and electrical installations** and in **building thermography**.

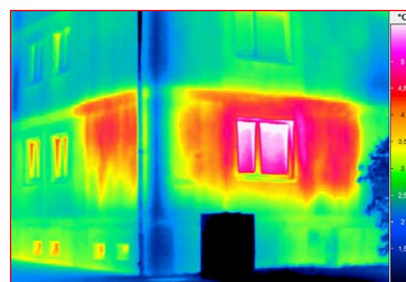
The analysis and evaluation of measurement results can be carried out just as conveniently. Users, for example, can generate reports in PDF format already on the camera and print them out immediately. The thermographic **IRBIS® 3 software family** developed by InfraTec is suitable for more detailed inspections.

Technical Specifications

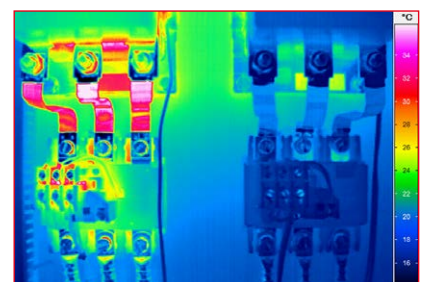
Spectral range	(8 ... 14) μm
Pitch	25 μm
Detector	Uncooled Microbolometer Focal Plane Array
Detector format (IR pixels)	(384 x 288)
Temperature measuring range	(-20 ... 800) $^{\circ}\text{C}$, to 2,000 $^{\circ}\text{C}^*$
Measurement accuracy	± 2 $^{\circ}\text{C}$ or ± 2 %
Temperature resolution @ 30 $^{\circ}\text{C}$	0.045 K
Frame rate	60 Hz, 9 Hz*
Storage media	SDHC Card, 12 GB internal memory
Real-time storage	Yes: recording non radiometric thermal images (MPEG)
Focus	Motor-driven, manual, autofocus
Zoom	Up to 4x
Minimum object distance (standard lens)	50 cm
Digital colour video camera	5 Megapixels
Interfaces	Micro-USB, Mini-HDMI, WLAN
Tripod adapter	1/4" photo thread
Power supply	AC adapter, Lithium-Ion battery
Integrated microphone and speaker	Yes
Laser pointer	Yes
Display	5" colour TFT display (1,280 x 720) pixels, 180 $^{\circ}$ rotatable and 270 $^{\circ}$ revolvable, touchscreen
Colour viewfinder	(1,280 x 960) pixels
Single-handed operation	Yes
Storage and operation temperature	(-40 ... 70) $^{\circ}\text{C}$, (-15 ... 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	(144 x 206 x 114) mm; 1.15 kg without Lithium-Ion battery
Automatic functions	Autofocus, 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 $^{\circ}$ 3

* Depending on model

Lens	Focal length (mm)	FOV ($^{\circ}$)
Wide-angle lens	13	(41 x 31)
Standard lens	25	(22 x 16)
Telephoto lens	55	(10 x 8)



Building thermography



Inspection of electrical installations

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