

Thermal imager

testo 882 – reliable thermography with high image resolution

Detector size 320 x 240 pixels

SuperResolution technology to 640 x 480 pixels

Thermal sensitivity < 50 mK

Built-in digital camera with power LEDs

Special measurement mode for mould-risk areas

High temperature measurement up to 550 °C



With the thermal imager testo 882, you test materials and components reliably and securely. The testo 882 – in ergonomic pistol design – stands out thanks to very high-resolution thermal images and a high thermal sensitivity.

This allows you to identify every detail on the measurement object completely non-intrusively, and detect anomalies and weak spots more easily even at a great distance. For you, that means: You see more and have more security when measuring thermographically!

Ordering data



Accessories

| | Code¹⁾ (Initial equipment) | Part no. (Retrofit) | |
|--|--|--------------------------------|--|
| SuperResolution. Four times more measurement values for even more detailed analysis of the thermal images | S1 | 0554 7806 | |
| Lens protection glass. Special Germanium protective glass for optimum protection of the lens from dust and scratching | C1 | 0554 8805 | |
| Additional battery. Additional lithium ion rechargeable battery for extending the operating time | D1 | 0554 8802 | |
| Fast battery charger. Desktop charging station for two rechargeable batteries for the optimization of charging time | E1 | 0554 8801 | |
| High temperature measurement up to +550 °C | G1 | ²⁾ | |
| Humidity measurement* | B1 | ^{2) 3)} | |
| Emission adhesive tape. Adhesive tape, e.g. for reflective surfaces (roll, L.: 10 m, W.: 25 mm), $\epsilon = 0.95$, temperature resistant to +250 °C | | 0554 0051 | |
| ISO calibration certificates; Calibration points at 0 °C, +25 °C, +50 °C | | 0520 0489 | |
| ISO calibration certificates; Calibration points at 0 °C, +100 °C, +200 °C | | 0520 0490 | |
| ISO calibration certificates; Freely selectable calibration points in the range -18 to +250 °C | | 0520 0495 | |

* Wireless humidity probes only in the EU, Norway, Switzerland, USA, Canada, Colombia, Turkey, Brazil, Chile, Mexico, New Zealand, Indonesia

¹⁾ When ordering as initial equipment, you receive the accessories directly in the case. Example: testo 882 incl. lens protection glass and additional battery: Order no. 0560 0882 C1 D1

²⁾ Please contact our customer service

³⁾ Plus installation

Technical data

| Infrared image output | |
|--|---|
| Infrared resolution | 320 x 240 pixels |
| Thermal sensitivity (NETD) | < 50 mK at +30 °C |
| Field of view/min. focus distance | 32° x 23° / 0.2 m |
| Geometric resolution (IFOV) | 1.7 mrad |
| SuperResolution (pixel / IFOV) | 640 x 480 pixels / 1.1 mrad |
| Image refresh rate | 33 Hz* |
| Focus | manual and motor focus |
| Spectral range | 7.5 to 14 µm |
| Image output visual | |
| Image size / min. focus distance | 640 x 480 pixels / 0.4 m |
| Image presentation | |
| Image display | 3.5" LCD with 320 x 240 pixels |
| Display options | IR image only / real image only / IR and real image |
| Video output | USB 2.0 |
| Colour palettes | 10 (iron, rainbow, rainbow HC, cold-hot, blue-red, grey, inverted grey, sepia, Testo, iron HT) |
| Measurement | |
| Temperature range | -30 to +100°C / 0 to +350 °C (switchable) |
| High temperature measurement - optional | +350 to +550 °C |
| Accuracy | ±2 °C, ±2 % of m.v. / (±3% of m.v. at +350 to +550 °C) |
| Emissivity / reflected temperature | 0.01 to 1 / manual |
| Measuring functions | |
| Display of surface moisture distribution (using manual input) | ✓ |
| Humidity measurement with radio humidity probe (automatic measurement value transfer in real time)** | (✓) |
| Solar mode | ✓ |
| Analysis function | up to 2 measurement points, Hot/Cold Spot Recognition, Isotherms, Area measurement (Min-/Max on Area) |

* inside the EU, outside 9 Hz

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*** excepting USA, China and Japan

| Imager equipment | |
|---|--|
| Digital camera | ✓ |
| Power LEDs | ✓ |
| Motor focus | ✓ |
| Standard lens | 32° x 23° |
| Laser (laser classification 635 nm, Class 2)*** | ✓ |
| Voice recording | wired headset |
| Video streaming (via USB) | ✓ |
| Image storage | |
| File format | .bmt; export option in .bmp, .jpg, .png, .csv, .xls |
| Storage device | SD card 2 GB (approx. 1.000 images) |
| Power supply | |
| Battery type | Fast-charging, Li-ion battery can be changed on-site |
| Operating time | 4 hours |
| Charging options | In instrument/in charging station (optional) |
| Mains operation | yes |
| Ambient conditions | |
| Operating temperature range | -15 to +40 °C |
| Storage temperature range | -30 to +60 °C |
| Air humidity | 20 to 80 % RH non-condensing |
| Housing protection class (IEC 60529) | IP54 |
| Vibration (IEC 60068-2-6) | 2G |
| Physical specifications | |
| Weight | Approx. 900 g |
| Dimensions (L x W x H) in mm | 152 x 108 x 262 |
| Tripod mounting | M6 |
| Housing | ABS |
| PC software | |
| System requirements | Windows XP (Service Pack 3), Windows Vista, Windows 7 (Service Pack 1), Windows 8, interface USB 2.0 |
| Standards, tests | |
| EU Directive | 2004 / 108 / EC |

✓ included in delivery

(✓) optional

Overview

| | |
|---|------------------|
| Detector | 320 x 240 pixels |
| Thermal sensitivity (NETD) | < 50 mK |
| Temperature range | -30 to +350 °C |
| Image refresh rate | 33 Hz* |
| Lens 32° x 23° | ✓ |
| SuperResolution | (✓) |
| High temperature measurement up to 550 °C | (✓) |
| Integrated digital camera | ✓ |
| Integrated power LEDs | ✓ |
| Laser** | ✓ |
| Display of surface moisture distribution (by manual input) | ✓ |
| Humidity measurement with wireless humidity probe*** (automatic measurement value transfer in real time) | (✓) |
| Voice recording using the headset | ✓ |
| Motor focus | ✓ |
| Isotherm display in instrument | ✓ |
| Min/Max on Area calculation | ✓ |
| Auto Hot/Cold Spot Recognition | ✓ |
| Solar mode | ✓ |
| Lens protection glass | (✓) |
| Additional battery | (✓) |
| Fast battery charger | (✓) |

✓ included in delivery

(✓) optional

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