

Thermal imager

Your helping hand:
The testo 883 thermal imager.

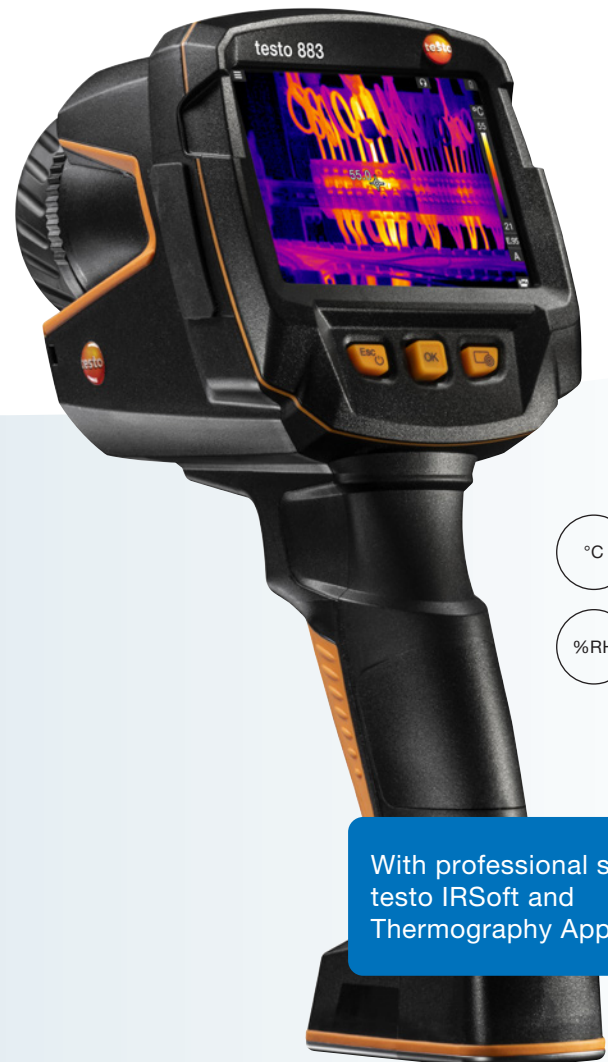
Best image quality: IR resolution of 320 x 240 pixels
(with SuperResolution 640 x 480 pixels); NETD < 40 mK

Helpful features: testo SiteRecognition intelligent image
management and testo ScaleAssist automatic contrast
adjustment

Extensive analysis and documentation:
With the intuitive professional software testo IRSof

Full control: Manual focus and interchangeable lenses

Wireless transmission: Integrate readings from clamp meter
or humidity probe directly into the thermal image



With professional software
testo IRSof and
Thermography App included

The testo 883 thermal imager was developed especially for power distribution utilities, preventive & predictive maintenance staff, facility managers and building energy consultants who wish to rely on the best thermal image quality and helpful features for their thermal measuring tasks. This saves time and ensures flawless work results.

In facility management and maintenance, testo SiteRecognition technology really pays off. This feature automatically assigns thermal images (e.g. of switching

cabinets) to the correct measurement object, thus eliminating the need for tedious manual image management.

In building energy consulting, many experts appreciate the professional software testo IRSof, which is included with the testo 883. With this, not only can thermal images be comprehensively analyzed, they can also be summarized in impressive-looking reports. This reduces the time required and makes it easier to impress customers over the long term.

Order data

testo 883

testo 883 thermal imager with standard lens 30° x 23°, USB-C cable, USB mains unit, Li-ion rechargeable battery, carrying strap, Bluetooth® headset (depending on the country), short instructions, calibration protocol, professional software IRSoft (free download), in a case



Order no. 0560 8830

testo 883 kit

testo 883 thermal imager with standard lens 30° x 23°, telephoto lens 12° x 9°, USB-C cable, USB mains unit, Li-ion rechargeable battery, spare battery, battery-charging station with USB cable, carrying strap, Bluetooth® headset (depending on the country), short instructions, calibration protocol, professional software IRSoft (free download), in a case



Order no. 0563 8830

| Compatible measuring instruments for more meaningful thermal images | Order no. |
|---|--------------|
| testo 605i thermohygrometer with smartphone operation, including batteries and calibration protocol | 0560 2605 02 |
| testo 770-3 clamp meter including batteries and 1 set of measuring cables | 0590 7703 |
| Accessories | Order no. |
| Telephoto lens 12° x 9° | * |
| Spare battery, additional Li-ion rechargeable battery for extending the operating time. | 0554 8831 |
| Battery-charging station, desktop charging station for optimizing the charge time. | 0554 8801 |
| Lens protection glass, Special germanium protective glass for optimum protection of the lens against dust or scratching | 0554 8805 |
| testo ε-marker (10 off), markers for the testo ε-Assist function for the automatic determination of emissivity and reflected temperature. | 0554 0872 |
| Emission tape. Adhesive tape e.g. for bare surfaces (roll, L.: 10 m, W.: 25 mm), ε = 0.95, temperature-resistant up to +250 °C | 0554 0051 |
| PC software testo IRSoft for analysis and reporting (free download) | |
| ISO calibration certificate, calibration points at 0 °C, +25 °C, +50 °C | 0520 0489 |
| ISO calibration certificate, calibration points at 0 °C, +100 °C, +200 °C | 0520 0490 |
| ISO calibration certificate, freely selectable calibration points in the range -18 to +250 °C | 0520 0495 |

* Please contact our customer service.


PC software testo IRSoft

With testo IRSoft, you can conveniently process and analyze infrared images on your PC. Extensive investigative functions are available for professional thermal image processing.

The software can be downloaded free of charge from www.testo.com/irsoft.

testo Thermography App

With the testo Thermography App, your smartphone/tablet becomes a second display, and a remote control for your thermal imager. In addition to this, you can use the App to create and send compact reports on site, and to save them online. Download for Android or iOS now free of charge.



testo SiteRecognition

The testo SiteRecognition technology ensures fully automatic measuring location recognition, along with storage and management of thermal images resulting from measurements or inspections. This saves you a lot of time and stress, particularly if you take a lot of pictures of similar measurement objects.

testo ScaleAssist

With testo ScaleAssist, the correct evaluation of construction errors and thermal bridges is easier than ever before. The function automatically sets the optimum thermal image scale. This prevents interpretation errors and makes infrared images comparable in spite of altered ambient conditions.

Technical data

| Infrared image output | |
|---|--|
| Infrared resolution | 320 x 240 pixels |
| Thermal sensitivity (NETD) | < 40 mK/ 0.04 °C at 30 °C |
| Field of view/min. focusing distance | 30° x 23° (standard lens) 12° x 9° (telephoto lens) < 0.1 m (standard lens) |
| Geometric resolution (IFOV) | 1.7 mrad (standard lens) 0.7 mrad (telephoto lens) |
| testo SuperResolution | 640 x 480 pixels |
| IFOV/spatial resolution | 1.3 mrad |
| Image refresh rate | 9 Hz/ 27 Hz ¹⁾ |
| Focus | Manual |
| Spectral range | 7.5 to 14 µm |
| Visual image output | |
| Image size / min. focusing distance | 3 MP / < 0.4 m |
| Image presentation | |
| Image display | 8.9 cm (3.5") TFT, QVGA (320 x 240 pixels) |
| Digital zoom | 2x, 4x |
| Display options | IR image / real image |
| Colour palettes | iron, rainbow, rainbow HC, cold-hot, blue-red, grey, inverted grey, sepia, Testo, iron HT, humidity palette |
| Data interface | |
| WLAN Connectivity | Communication with the testo Thermography App; Wireless module BT ²⁾ /WLAN |
| Bluetooth ²⁾ | Headset for voice annotations; transfer of readings from testo 605i thermohygrometer, testo 770-3 clamp meter (optional) |
| USB | USB-C, USB 2.0 |
| Measurement | |
| Measuring range | -30 to +650 °C |
| Accuracy | ±2 °C, ±2% of the reading (higher value applies) |
| Emissivity/reflected temperature adjustment | 0.01 to 1 / manual |
| testo ε-Assist | Automatic recognition of emissivity and determination of reflected temperature (RTC) |
| Measuring functions | |
| Analysis functions | Up to 5 selectable individual measuring points, hot/cold spot detection, Delta T, area measurement (min/max on area), alarms, isotherm |
| testo SiteRecognition | ✓ |
| testo ScaleAssist | ✓ |
| IFOV warner | ✓ |
| Humidity mode – manual | ✓ |
| Humidity measurement with humidity measuring instrument ²⁾ | Automatic data transfer of testo 605i thermohygrometer via Bluetooth (instrument must be ordered separately) |
| Solar mode – manual | Input of solar radiation value |
| Electrical mode – manual | Input of current, voltage or power |
| Electrical measurement with clamp meter ²⁾ | Automatic data transfer of testo 770-3 clamp meter via Bluetooth (instrument must be ordered separately) |

| Imager features | |
|--|---|
| Touch operation | capacitive touch display |
| Digital camera | ✓ |
| Laser ³⁾ | Laser marker (laser class 2, 635 nm) |
| Video streaming | via USB, via WLAN with testo Thermography App |
| Storage as JPG | ✓ |
| Fullscreen mode | ✓ |
| Tripod socket | for wrist strap or a photo tripod with UNC thread |
| Image storage | |
| File format | .bmt and .jpg; export options in .bmp, .jpg, .png, .csv, .xls |
| Memory | internal memory (2.8 GB) |
| Voice*/Text annotation | |
| | Available |
| Power supply | |
| Battery type | Fast-charging, Li-ion battery can be changed on site |
| Operating time | ≥ 5 hours |
| Charging options | In instrument/in charging station (optional) |
| Mains operation | ✓ |
| Ambient conditions | |
| Operating temperature range | -15 to +50 °C |
| Storage temperature range | -30 to +60 °C |
| Air humidity | 10 to 90 %RH, non-condensing |
| Housing protection class (IEC 60529) | IP54 |
| Vibration (IEC 60068-2-6) | 2G |
| Physical features | |
| Weight | 827 g |
| Dimensions (LxWxH) | 171 x 95 x 236 mm |
| Housing | PC - ABS |
| PC software | |
| System requirements | Windows 10, Windows 8, Windows 7 |
| Standards, tests | |
| EU guidelines | EMC: 2014/30/EU RED: 2014/53/EU WEEE: 2012/19/EU RoHS: 2011/65/EU + 2015/863 REACH: 1907/2006 |
| ¹⁾ Inside the EU, outside 9 Hz | |
| ²⁾ An overview of radio authorizations in the different countries can be found in the download section of the respective product page (www.testo.com). | |
| ³⁾ excepting USA, China and Japan | |
| *Voice annotation | 60 s |

