Be sure. testo

Professional reports

Sees everything, thinks for you.

The new thermal imager testo 883 with the best image quality and professional reports – the efficient reinforcement for energy consultants.

It’s time
for reinforcements.

Families and companies regularly rely on the recommendations of energy consultants to maintain or even increase the value of their property. A big responsibility, where every detail counts.

In addition to constant time pressures and insufficient tools, this task is made more difficult due to the fact that it often takes far too long to produce exceptional thermographic reports.

We think you deserve a helping hand. Reinforcements in the form of an instrument that sees everything of importance in your job, and can even do the work for you thanks to its practical functions.

Find out all about the new testo 883 thermal imager.

Your helping hand:
The testo 883 thermal imager.

— Benefit from outstanding image quality.
Infrared resolution of 320 x 240 pixels, expandable to 640 x 480 pixels with the built-in testo SuperResolution technology. In addition, the thermal sensitivity of < 40 mK makes even the smallest temperature differences visible.

— Create impressive reports.
Compile professional reports quickly and easily with the testo IRSoft report wizard – or use the software's report designer to create customized templates to suit your own requirements.

— Work within a network.
With the testo Thermography App, you can stream the measurement live to the customer's smartphone/ tablet for the customer to follow along, or integrate readings from the testo 605i thermohygrometer into the thermal image.

— Get a clear view of what you need to see straight away.
The testo ScaleAssist automatic contrast adjustment prevents any misinterpretations.
With humidity mode, the risk of mold is visualized in the thermal image by means of traffic light colors.

— Enjoy flexibility.
Simply switch from the standard lens to the telephoto lens for high-precision thermography of even distant objects. In addition, you always have full control over the thermal image thanks to the manual focus.

testo IRSoft: The quickest route to creating impressive thermography reports.

in building energy consulting, simply having a good thermal imager is not enough. Powerful software is essential for analyzing thermal images quickly and easily, and documenting them in a report. The licence-free software testo IRSoft was developed precisely for this purpose.

Professional reports created quickly.

- Step-by-step guidance – for clearly structured reports.
- A wide variety of templates to choose from – with all the relevant information.
- Create customized templates – using the report designer.
- Selection of formats to choose from – PDF, RTF (e.g. for further processing in Word) or in Testo's own TIR format. TIR makes it really easy for you to edit your saved reports at a later stage.

The right feature to suit every requirement.

- Place an unlimited number of measuring points, determine cold/hot spots and make comments – for customized thermography analysis.
- Change the emissivities of different materials, ranging from freely definable image areas down to individual pixels – for high-precision thermograms.
- Display profile lines and histograms – for easy analysis of temperature curves and distributions.
- Highlight the overshooting or undershooting of limit values – for visualizing critical temperatures.

You can download the testo IRSoft analysis software free of charge and without a licence.

testo ScaleAssist: Automatic contrast adjustment for comparable thermal images.

A typical challenge in building thermography: Thermal images of the same object can look different depending on the indoor and outdoor temperatures. The testo ScaleAssist technology solves this problem by automatically adjusting the scale of the thermal imager to the optimum setting after entering the indoor and outdoor temperatures.

This has two advantages: Objectively comparable thermal images and optimum contrast. Any elements that are in the way or unimportant are automatically faded out, misinterpretations are prevented and constructional defects are only displayed if they really exist.

Scale is set too low:
It appears that renovation work is required.

Scale is set too high:
It appears that no renovation work is required.

Scale is set correctly.

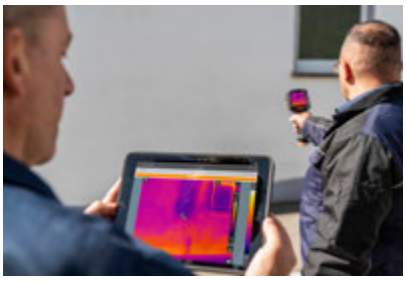
To see is to understand: These features will win over your customers.

Humidity mode:

Depicts the risk of mold at thermal weak spots in the thermal image itself using traffic light colors. You can transfer the required indoor air temperature and indoor air humidity readings wirelessly from the optional testo 605i thermohygrometer to the testo 883. This enables you to offer your customers competent, high-precision detection of the risk of mold, to prevent expensive damage to the building fabric and to protect the health of the inhabitants.

testo Thermography App:

Measurements are transferred live to a smartphone/tablet – and your customers can relax in comfort as they look at what you yourself see.



Two reinforcement options are available: testo 883 on its own or in a kit.

testo 883

Scope of delivery:
- testo 883 thermal imager with standard lens 30° x 23°
- Robust case
- Professional IRSoft software (free download)
- USB-C cable
- USB power supply
- Li-ion rechargeable battery
- Carrying strap for the thermal imager
- Bluetooth headset (depending on the country)
- Short instructions
- Calibration protocol

Order no. 0560 8834

testo 883 kit

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- testo 883 thermal imager with standard lens 30° x 23°
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- Li-ion rechargeable battery
- Carrying strap for the thermal imager
- Bluetooth headset (depending on the country)
- Short instructions
- Calibration protocol

Kit advantages
- Interchangeable lenses immediately prepare you for all eventualities
- You benefit from the lower kit price compared to buying individually.

- Telephoto lens 12° x 9°
- Additional Li-ion rechargeable battery
- Battery-charging station

Order no. 0563 8834

Accessories

Compatible measuring instruments for more meaningful thermal images	Order no.
testo 605i thermohygrometer with smartphone operation, including batteries and calibration protocol	0560 2605 03

Accessories	Order no.
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 and scratching	0554 8805
PC software testo IRSoft for analysis and reporting (as a download)	
ISO calibration certificate, freely selectable calibration points in the range -0.4 to 302 °F (-18 to +150 °C)	400520 1913

* Please contact customer service.

Technical data:
Overview of details.

Infrared image output	
Infrared resolution	320 x 240 pixels
Thermal sensitivity (NETD)	< 40 mK
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 (Pixels/IFOV)	640 x 480 pixels 1.1 mrad (standard lens) 0.4 mrad (telephoto lens)
Image refresh rate	27 Hz
Focus	Manual
Spectral range	7.5 to 14 µm
Visual image output	
Image size / min. focusing distance	5 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
Color palettes	iron, rainbow, rainbow HC, cold-hot, blue-red, grey, inverted grey, sepia, Testo, iron HT, humidity palette
Data interface	
Wi-Fi Connectivity	Communication with the testo Thermography App; wireless module BT[2)]/Wi-Fi
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	-22 to 1,202 °F (-30 to +650 °C)
Accuracy	±3.6 °F (±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[1)]	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[1)]	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	Laser marker (laser class 2, 635 nm)
Video streaming	via USB, via Wi-Fi with testo Thermography App
Storage as JPG	✔
Fullscreen mode	✔
Tripod socket	For carrying strap or a photo tripod with 1/4"-20 UNC thread
Image storage	
File format	.bmt and .jpg; export options in .bmp, .jpg, .png, .csv, .xls
Memory	Internal memory (2.8 GB)
Voice annotation	✔ [1)]
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)
Power Supply Included	✔
Ambient conditions	
Operating temperature range	5 to 122 °F (-15 to +50 °C)
Storage temperature range	-22 to 140 °F (-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 features	
Weight	1.8 lbs (827 g)
Dimensions (LxWxH)	6.7 X 3.7 X 9.3 in (171 x 95 x 236 mm)
Housing	PC - ABS
PC software	
System requirements	Windows 10, Windows 8, Windows 7

[1)] An overview of radio authorizations in the different countries can be found in the download section of the respective product page.

Customers: Won over.
Time: Saved.

Best quality thermal images and professional reports: The new thermal imager testo 883 sees everything and thinks for you. So you can depend unconditionally on a reliable tool to support you exactly where you need it most.

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