Be sure. testo

Automatic
image
management

Sees everything, thinks for you.

The new thermal imager testo 883 with the best image quality and automatic image management – the efficient reinforcement for service technicians.

It’s time
for reinforcements.

In maintenance and facility management, your day-to-day work can make all the difference between experiencing a successful day with attained production targets or painful losses due to unplanned downtime.

And as if that weren’t enough, your work is further complicated by constant time pressures, administrative efforts that aren’t very productive and inadequate tools.

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 thermal imager testo 883.

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, you always have full control over the thermal image thanks to the manual focus.

— **No need to manually assign images on your PC ever again.**
The testo SiteRecognition technology automatically assigns thermal images to the correct measuring location following an inspection route.

— **Work within a network.**
Use the testo Thermography App for quick analyses on site or integrate the readings of the testo 770-3 clamp meter into the thermal image.

— **Experience exceptionally intuitive operation.**
The clever combination of touch display and the tried-and-tested Testo joystick will make your work processes smoother and more efficient.

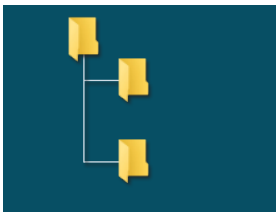
— **Enjoy flexibility.**
Simply switch from the standard lens to the telephoto lens for high-precision thermography of even distant objects.

testo SiteRecognition:
Automatic thermal image management.

A typical problem in maintenance:
A lot of similar measuring objects mean a lot of similar thermal images. Previously, in order to clearly allocate the images after an inspection, you had to create complex lists or add a voice comment to each individual thermal image.

An innovation from Testo now solves these problems: The testo SiteRecognition technology guarantees fully automatic site recognition, as well as storage and management of the thermal images. This rules out any mix-ups, prevents errors during evaluation and saves time by eliminating the need for manual image assignment.

How testo SiteRecognition works



1a. Create a list of your measurement objects in the testo IRSoft PC software.

If you already use codes for your measurement objects and/or have inventory lists:

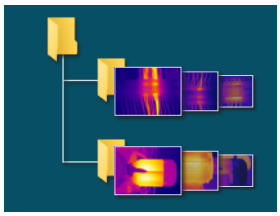
1b. Import your existing inventory list with the codes into the testo IRSoft PC software.

2a. Create the codes for the measurement objects in testo IRSoft, print them out and attach them to the measurement object.

2b. Transfer the data to the testo 883 thermal imager.

3. Activate the SiteRecognition wizard in the testo 883 thermal imager.

The testo 883 automatically recognizes the codes during the measurement and saves the respective measuring location information together with the thermal image.



4. When synchronizing the imager with testo IRSoft, the thermal images are automatically assigned correctly.

You can also export the work results again for third-party programs. This saves time and is highly intuitive.

The professional software

testo IRSoft

In addition to measuring location management (testo SiteRecognition), the software also enables you to comprehensively analyze, process and document thermal images.
Download the software free of charge from **www.testo.com/irsoft**.

Connectivity:
Be smart and networked.

testo Thermography App

- **Analysis:** Insert measuring points, establish temperature curves, add comments, etc.
- **Livestream:** Use your smartphone/tablet as a second display, e.g. for overhead measurements.
- **Remote control:** Operate the thermal imager via the app.
- **Documentation:** Select images, store relevant data, see a preview and send reports via e-mail – or simply share images quickly with colleagues and managers.

testo Thermography App
Available free of charge for iOS or Android

Testo clamp meter

- **Effective:** Simply connect the thermal imager to the testo 770-3 clamp meter.
- **Practical:** Wireless transmission of readings from the testo clamp meter via Bluetooth directly into the thermal image.
  Thus, for example, when checking switching cabinets, the load status can be recorded directly in the thermal image and the condition of the system can be reliably assessed.

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 mains unit
- Li-ion rechargeable battery
- Carrying strap for the thermal imager
- Bluetooth headset (depending on the country)
- Short instructions
- Calibration protocol

Order no. 0560 8830

testo 883 kit

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- Robust case
- Professional IRSoft software (free download)
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- USB mains unit
- 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 8830

Accessories

Compatible measuring instruments for more meaningful thermal images	Order no.
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 and 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 (as a 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 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 1.3 mrad
Image refresh rate	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 annotation	✔ [2]
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	20 to 80 %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

Availability: Guaranteed.
Time: Saved.

Best quality thermal images and fully automatic image management: 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.

BUHL BØNSØE
MÅLBAR VIDEN

Hassellunden 11A, 2765 Smørum
Tel. 45 95 04 10
info@buhl-bonsoe.dk
www.buhl-bonsoe.dk