Be sure. **testo**

testo 883

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.

Your helping hand:
The thermal imager testo 883.

See more, work more efficiently.

Why is a **thermal imager with high image quality and easy reporting** so important for building thermography in energy consulting? It's simple: only with sufficiently high image quality can you detect even the smallest temperature differences to quickly identify problems such as heat loss, insufficient insulation or leaks. For reliable diagnoses and recommendations that save your customers money.

Easy reporting facilitates your work and communication with your customers. Because with professionally designed reports, you provide your customers with impressive and easy-to-understand detailed information about the building's energy performance and concrete recommendations for optimization.

Our **thermal imager testo 883** offers you all this and much more. Convince yourself.

— **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 mould is visualized in the thermal image by means of traffic light colours.
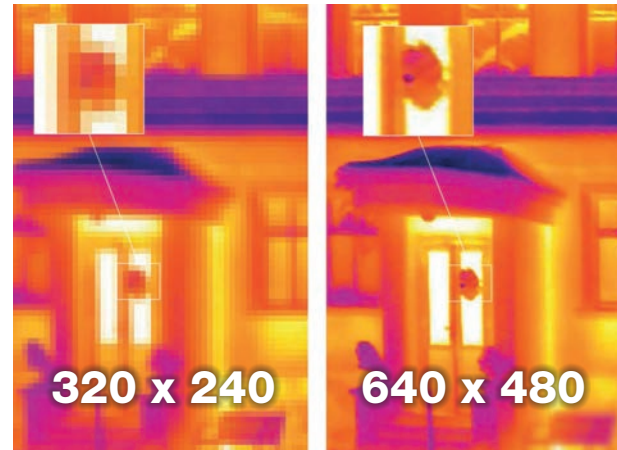
— **Enjoy flexibility.**
The 42° wide-angle lens for a large field of view (FOV) lets you capture a larger section of the image and work more quickly and efficiently. Or simply switch to the telephoto lens for high-precision thermography of even distant objects.. In addition, you always have full control over the thermal image thanks to the manual focus.

Outstanding image quality: detects even the finest temperature differences.

Thanks to outstanding detector and lens quality as well as intelligent system solutions, no detail is overlooked any more: detect anomalies and damage to building envelopes or indoors quickly and reliably with testo 883.

- Never miss a detail again with high-resolution thermal images up to 640 x 480 pixels
- Detect the finest temperature differences due to high thermal sensitivity (NETD)
- Precise infrared images through automatically adjusted emissivity
- Interchangeable wide-angle and telephoto lenses for every recording situation

320 x 240   640 x 480

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

In addition to good image quality, high-performance 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.
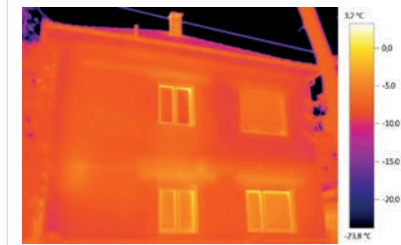
You can download the testo IRSoft analysis software free of charge and without a licence from **www.testo.com/irsoft**.

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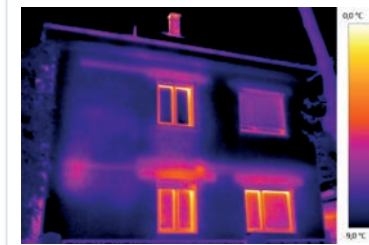
Scale is set too low:
It appears that renovation work is required.

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

Scale is set correctly:
specific weak points clearly emerge

To see is to understand: These features will win over your customers.
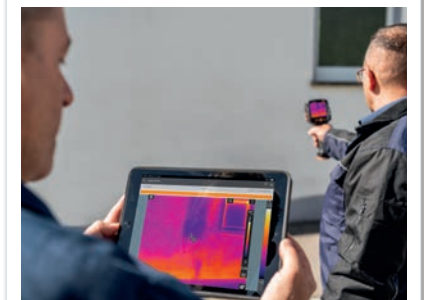
Humidity mode:
Depicts the risk of mould at thermal weak spots in the thermal image itself using traffic light colours. You can transfer the required indoor air temperature and indoor air humidity readings wirelessly from the optional testo 605i thermohygrometer to the testo 883. This enables you to offer your customers competent, high-precision detection of the risk of mould, 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.

Download on the App Store

GET IT ON Google Play

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

testo 883-2

Scope of delivery:
- testo 883 thermal imager with wide-angle lens 42° x 32°
- 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

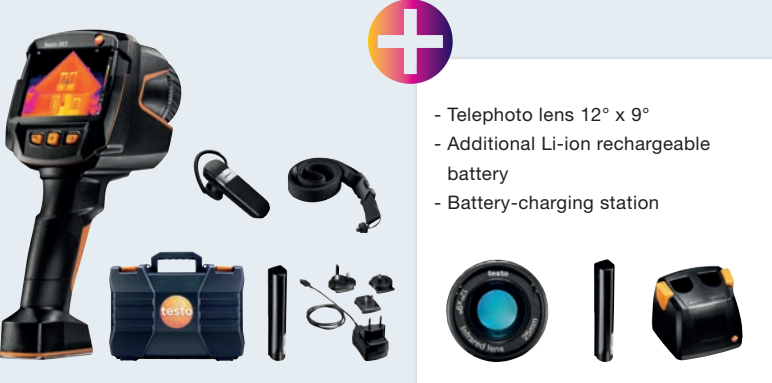Order no. 0560 8836   **EUR X,XXX.XX**

Set testo 883-2

Scope of delivery:
- Thermal imager testo 883 with wide-angle lens 42° x 32° and telephoto lens 12° x 9°
- 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

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 8836   **EUR X,XXX.XX**

Accessories

Compatible measuring instruments for more meaningful thermal images	Order no.	EUR
testo 605i thermohygrometer with smartphone operation, including batteries and calibration protocol	0560 2605 02	xx.xx

Accessories	Order no.	EUR
Telephoto lens 12° x 9°	*	xx.xx
Spare battery, additional Li-ion rechargeable battery for extending the operating time.	0554 8831	xx.xx
Battery-charging station, desktop charging station for optimizing the charge time.	0554 8801	xx.xx
Lens protection glass, special germanium protective glass for optimum protection of the lens against dust and scratching	0554 8805	xx.xx
testo ε-marker (10 off), markers for the testo ε-Assist function for the automatic determination of emissivity and reflected temperature.	0554 0872	xx.xx
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	xx.xx
PC software testo IRSoft for analysis and reporting (as a download)		xx.xx
ISO calibration certificate, calibration points at 0 °C, +25 °C, +50 °C	0520 0489	xx.xx
ISO calibration certificate, calibration points at 0 °C, +100 °C, +200 °C	0520 0490	xx.xx
ISO calibration certificate, freely selectable calibration points in the range -18 to +250 °C	0520 0495	xx.xx

* 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	Standard lens: 30° x 23°/<0.1 m Wide-angle lens: 42° x 32° / 0.5 m Telephoto lens: 12° x 9° / 0.5 m
Geometric resolution (IFOV)	Standard lens: 1.7 mrad Wide-angle lens: 2.3 mrad Telephoto lens: 0.7 mrad
testo SuperResolution (pixels/IFOV)	640 x 480 pixels Standard lens: 1.1 mrad Wide-angle lens: 1.4 mrad Telephoto lens: 0.4 mrad
Image refresh rate	27 Hz [1]
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, 3x, 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 reading (higher value applies)
Emissivity/reflected temperature adjustment	0.01 to 1 / manual
testo ε-Assist	Automatic recognition of emissivity and de-termination 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 ther-mohygrometer 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 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	✔ [2]

Power supply	
Battery type	Fast-charging, Li-ion battery can be chan-ged 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 11, Windows 10, Windows 8, Windows 7

Standards, tests	
EU Directive	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

Be sure. testo

Customers: Won over.
Time: Saved.

Best quality thermal images and professional reports: The 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.

www.testo.com