Be sure. **testo**

Thermal imager

Your helping hand:
The testo 883 thermal imager.

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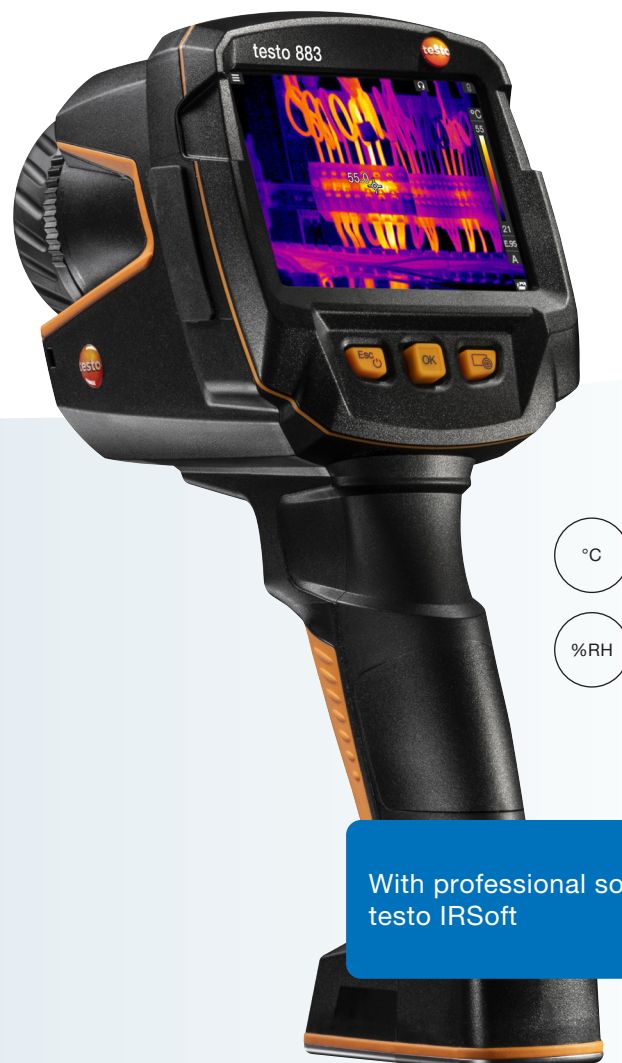(with SuperResolution 640 x 480 pixels); NETD < 40 mK

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

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

Full control: Manual focus and interchangeable lenses

°C

%RH

**With professional software
testo IRSoft**

The testo 883 thermal imager was developed especially for
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 IRSoft, 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.

www.testo.com

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, short instructions, calibration protocol, professional software IRSoft (free download), in a case

Order no. 0560 8833

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, short instructions, calibration protocol, professional software IRSoft (free download), in a case

Order no. 0563 8833

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 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
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	9 Hz
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

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	yes
testo ScaleAssist	yes
IFOV warner	yes
Humidity mode – manual	yes
Solar mode – manual	Input of solar radiation value
Electrical mode – manual	Input of current, voltage or power

Imager features	
Touch operation	capacitive touch display
Digital camera	yes
Laser[3]	Laser marker (laser class 2, 635 nm)
Storage as JPG	yes
Fullscreen mode	yes
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)

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	yes

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

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Subject to change, including technical modifications.

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