

Thermal imager

The testo 883 thermal imager.



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

Helpful features: testo ScaleAssist automatic contrast adjustment
and testo IFOV warmer to accurately pinpoint correct measurements
with the smallest detector pixel size possible.

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

Full control: Manual focus and interchangeable lenses

Wireless transmission: Live View with the Testo Thermography App

The testo 883 thermal imager was developed for maintenance staff, facility managers, and energy consultants who wish to rely on the best thermal image quality, and enhanced features for thermal imaging. With the testo 883, you and your team can easily find root cause issues and gain more confidence in your thermal imaging programs.

Many experts appreciate the testo IRSoft professional thermography software, available as a free download, for the testo 883. With this software, thermal images are comprehensively analyzed and summarized with impressive-looking reports, reducing time and providing professional grade results.

Order data

testo 883

testo 883 thermal imager with standard lens (30° x 23°)

USB-C cable, USB power supply, Li-ion rechargeable battery, carrying strap, Bluetooth® headset, short instructions, calibration protocol, professional software IRSofT (free download), protective transport case



Order no. 0560 8834

testo 883 kit

testo 883 thermal imager with standard lens 30° x 23° and telephoto lens 12° x 9°

Includes: USB-C cable, USB power supply, Li-ion rechargeable battery, spare battery, battery-charging station with USB cable, carrying strap, Bluetooth® headset, short instructions, calibration protocol, professional software IRSofT (free download), protective transport case



Order no. 0563 8834

testo 883-2

testo 883 thermal imager with wide-angle lens (42° x 30°)

Includes: USB-C cable, USB power supply, Li-ion rechargeable battery, carrying strap, Bluetooth® headset, short instructions, calibration protocol, professional software IRSofT (free download), protective transport case



Order no. 0560 8836

testo 883-2 kit

testo 883 thermal imager with wide-angle lens (42° x 30°) and telephoto lens (12° x 9°)

Includes: USB-C cable, USB power supply, Li-ion rechargeable battery, spare battery, battery-charging station with USB cable, carrying strap, Bluetooth® headset, short instructions, calibration protocol, professional software IRSofT (free download), protective transport case



Order no. 0563 8836

Compatible measuring instruments for more meaningful thermal images

testo 605i thermohygrometer with smartphone operation, including batteries and calibration protocol

Order no.

0560 2605 03

Accessories

Order no.

Telephoto lens 12° x 9°

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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: 32 ft (10 m) x W: 1 in. (25 mm), ε = 0.95, temperature-resistant up to 482 °F (+250 °C)

0554 0051

PC software testo IRSofT for analysis and reporting (free download)

NIST Temperature certificate for thermal imagers (5 temperature points)

400520 1913

* Please contact our customer service.

Technical data

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° / < 0.3 ft (0.1 m) wideangle lens: 42° x 32° / 0.3 ft (0.1 m) telephoto lens: 12° x 9° / 1.6 ft (0.5 m)
Geometric resolution (IFOV)	standard lens: 1.7 mrad wideangle lens: 2.3 mrad telephoto lens: 0.7 mrad
testo SuperResolution (pixels/IFOV)	640 x 480 pixels standard lens: 1.1 mrad wideangle lens: 1.4 mrad telephoto lens: 0.4 mrad
Image refresh rate	27 Hz
Focus	Manual
Spectral range	7.5 to 14 µm
Visual image output	
Image size / min. focusing distance	3 MP / < 1.3 ft (0.4 m)
Image presentation	
Image display	3.5" (8.9 cm) TFT, QVGA (320 x 240 pixels)
Digital zoom	2x, 3x, 4x
Display options	IR image / real image / overlay (IRSoft)
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 ¹⁾ /Wi-Fi
Bluetooth ¹⁾	Headset for voice annotations; transfer of readings from testo 605i thermohygrometer (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

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 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	
	✓ 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 °C (-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
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⁾ An overview of radio authorizations in the different countries can be found in the download section of the respective product page (www.testo.com).

Software measurement solutions from Testo

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 SuperResolution

The testo SuperResolution allows the Infrared resolution of 320 x 240 pixels, to be expandable to 640 x 480 pixels for even clearer images to spot potential issues. In addition, you always have full control over the thermal image thanks to the manual focus and quick change lenses.

testo ScaleAssist

With testo ScaleAssist, the function automatically sets the optimum thermal image scale. This prevents interpretation errors and makes infrared images comparable in spite of altered ambient conditions.

Other measurement solutions from Testo

Thermal Imaging

testo 890
High End Thermal Imager



IR Temperature

testo 835-H1
IR Thermometer with Humidity



testo 830-T2
IR Thermometer



Emission Analysis

testo 340
4-Gas Emissions Analyzer



testo 350
Portable Emissions Analyzer



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Subject to change, including technical modifications.