Be sure. testo

Thermal imager

testo 860i – wireless thermal imager for smartphones with easy operation and display via the testo Smart App
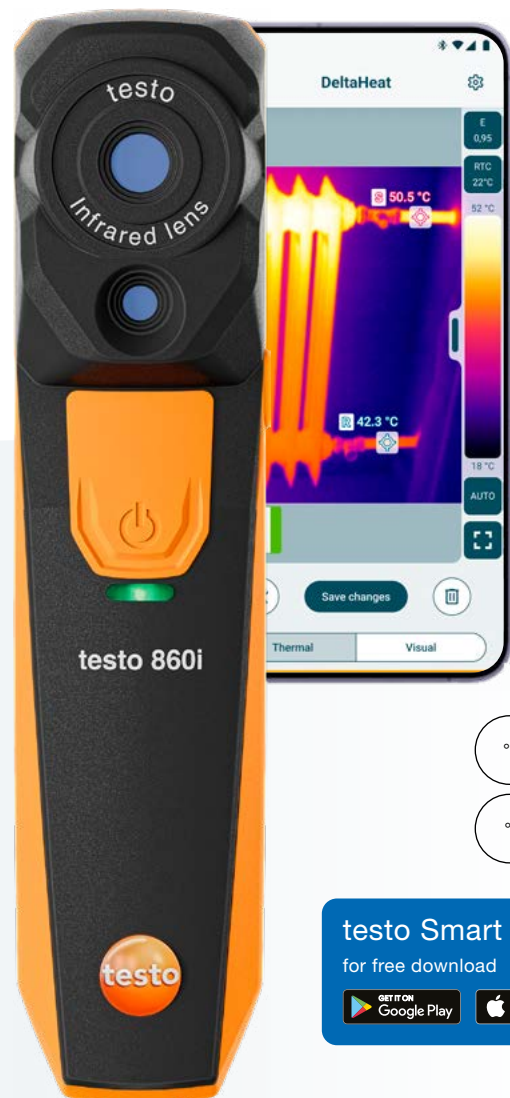

Wirelessly connects to your mobile device for fast inspections with the Testo Smart App

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Razor-sharp thermal images thanks to high infrared resolution (256 x 192 pixels)

Full Radiometric Temperatures and DeltaT, DeltaHeat, DeltaCool to speed analysis

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Flexibility designed in, use one-handed or clipped directly to your device

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IP54 and Drop Tested (5 ft) for everyday field use.

°C

°F

testo Smart App
for free download

Google Play · App Store · testo SMART

The new testo 860i wireless thermal imager for smart devices gives users simple operation and display paired with the testo Smart App making it the perfect choice for quick spot checks in the HVAC trade, maintenance, buildings and many other applications.

Testo 860i enables quick and easy measurements of Delta T (differential temperature) in the thermal image using application-specific measurement functions: DeltaHeat for quick readings of supply and return temperatures on heating type appliances, DeltaCool for quickly establishing the differential temperature in refrigeration and air conditioning systems.

The testo Smart App is used to operate the testo 860i, display the thermal image and differential temperature, and document findings—it's simple, quick, and smart. The testo 860i is versatile and can be directly attached to a smartphone or tablet or used one-handed separately. Designed for everyday field use, with durability, portability, and a rechargeable lithium battery with a 2-hour operating time, the testo 860i is a reliable companion that can see what we cannot see.

www.testo.com

Order data

testo 860i

Wireless thermal imager for smartphones with simple operation and display via the testo Smart App, including a USB-C cable and cardboard packaging
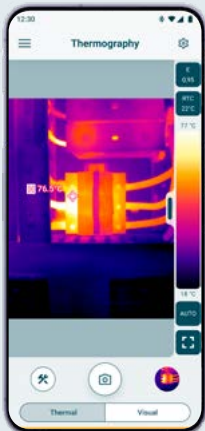
Order no. 0560 0860 01

testo 860i kit

Wireless thermal imager for smartphones with simple operation and display via the testo Smart App, including a bag for safe transport, a USB-C cable and cardboard packaging

Order no. 0563 0860 01

* testo 860i carry case accessory available seperately
Order no. 0554 8600

Always in the picture – with the testo Smart App

The testo Smart App makes sharp thermal images easier than ever:

- Fast connection of testo 860i to smartphones or tablets

- Clear display of thermal images and simple processing in the thermography measurement program

- Three application-specific optimised measuring programs: DeltaHeat for quickly determining the spread in flow and return temperatures on radiators, DeltaCool for determining the difference in refrigeration and air conditioning systems and humidity mode for assessing the risk of mold in buildings

- Storage of thermal images

- Integration of readings from Testo clamp meter, thermohygrometer and other Testo measuring instruments connected to the testo Smart App, e.g. Smart Probes and manifolds

- Documentation by directly sharing the images or creating and sending a report as a PDF

The testo Smart App is your universal app for all applications:

HVAC/R systems

Refrigeration, air conditioning and ventilation systems, heating systems, heat pumps, and IAQ

Industry Services and Facility Management

Thermal Imaging of Electrical, Mechanical, and Process Equipment to maximize reliability and safety

Building Diagnostics

Find Water Leaks, Air Leaks, and Missing Insulation in building envelopes

Your advantages for all applications:

- Compatible with many Testo measuring instruments

- Measurement programs for many applications

- Configuration, execution and monitoring of measurements

- Storage of measurement, measuring location and customer data

- Documentation including the creation and sending of the measurement report

- Useful premium add-on functions available (subject to charge)

Technical data

Infrared image output	
Infrared resolution	256 x 192 pixels
Thermal sensitivity (NETD)	50 mK
Field of view (VFOV/ HFOV)/ min. focusing distance	48° x 36° / 1 ft
Geometric resolution (IFOV)	3.3 mrad
Image refresh rate	9 Hz
Focus	Fixed
Spectral range	8 to 14 µm

Visual image output	
Image size / min. focusing distance	640 x 480 pixels / 0.4 m

Measurement	
Measuring range	-4 to +662 °F (-20 to +350 °C)
Accuracy	±3 °C (5.4°F) or ±3 % of m.v. (at ambient temp. -10 to 40 °C (14°F to 104°F) and scene temp. 0 to +150 °C (32°F to 302°F) or +100 to +350 °C (212°F to 662°F)
Emissivity/reflected temperature adjustment	0.01 to 1 / manual (via testo Smart App)

Measurement functions (in the testo Smart App)	
Analysis functions	Hot/cold spots, Delta T, up to 10 selectable individual measuring points, area measurement (min./max. on area)
Application-specific measurement functions	DeltaHeat, DeltaCool, humidity mode
Humidity mode – manual	Yes
Humidity measurement with humidity measuring instrument	Automatic transfer of the optional testo 605i or testo 625 thermohygrometer readings via Bluetooth to the testo Smart App
Electrical mode – manual	Input of current, voltage or power
Electrical measurement with clamp meter	Automatic reading transfer of the optional testo 770-3 clamp meter via Bluetooth to the testo Smart App

Image presentation (in the testo Smart App)	
Display options	IR image, real image
Fullscreen mode	Yes
Color palettes	Iron, rainbow, rainbow HC, cold-hot, blue-red, grey, inverted grey, sepia, Testo, iron HT, humidity palette
Digital zoom	Yes

General app functions	
File format	Share saved images as .bmt (for editing in IRSoft), .jpg, and .csv files with the testo Smart App
Image storage	On a mobile device

Remote-controlled operation	Up to 32ft (10 m) from the mobile device (via WLAN)

Power supply	
Battery type	Integrated Li-ion rechargeable battery
Battery life	2 hours
Charging interface	USB-C
Charging time	Approx. 90 min 15-min charge of an empty battery equals 30 min of operating time

Ambient conditions	
Operating temperature range	14 to 122 °F (-10 to +50 °C)
Storage temperature range	-4 to 140 °F (-20 to +70 °C)
Air humidity	5 to 95 %RH, non-condensing
Housing protection class (IEC 60529)	IP54
Impact resistance test	5 ft (1.5 m)
Vibration	IEC 60068-2-6

Physical features	
Weight	6.9oz (195 g)
Dimensions	6.5 x 1.7 x 1.5 in
Mobile device attachment	Clip span: min. 4.72 in, max. 6.7 in and device depth up to max. .5 in
Tripod socket	¼" UNC thread

Compatibility	
testo Smart App	Requires iOS 17 or later/Android 14 or later Requires mobile terminal device with Bluetooth 4.0
PC software testo IRSoft	Windows 11, Windows 10

Data interface	
WLAN*	Communication with the testo Smart App; WLAN: IEEE 802.11b/g/n
Bluetooth*	Peer-to-peer for fast connection set-up

* An overview of the radio authorisations in the different countries can be found in the download section of the testo 860i product page in the "Quick Start Guide testo 860i" document.