Be sure. <mark>test</mark>o

# Thermal imager

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

Simple and fast determination of Delta T in the thermal image using application-specific DeltaHeat and DeltaCool measurement functions

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

Everything is simple with the testo Smart App: easy operation and effortless documentation with on-site emailing

Flexible handling through wireless use or one-handed operation directly attached to a smartphone

High suitability for everyday use and robustness with IP54 and fall protection up to 1.5 m



The new wireless thermal imager for smartphones testo 860i with its simple operation and display in 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 determination of Delta T (differential temperature) in the thermal image using application-specific measurement functions: **DeltaHeat** for quick determination of the spread of flow and return temperatures on radiators, **DeltaCool** for quickly establishing the differential temperature in refrigeration and air conditioning systems. The **humidity mode** function helps to assess the risk of mould indoors. The thermography measurement function shows hotspots and Delta T quickly and easily during maintenance.

The testo Smart App is used to operate testo 860i, display the thermal image and differential temperature, and document – it's simple, quick and smart. testo 860i is versatile and can be used one-handed either directly attached to a smartphone or tablet, or separately. What's more, its high suitability for everyday use, robustness and rechargeable lithium battery with a long operating time make the testo 860i a reliable companion.



### 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

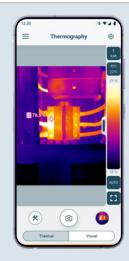
### testo 860i kit

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



## 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 mould 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 and heat pumps

Industry services and facility management

Monitoring of temperature, ambient and indoor climate Food safety (HACCP)

Checking of frying oil quality and temperature

#### 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 resolution256 x 192 pixelsThermal sensitivity (NETD)50 mKField of view (VFOV/ HFOV)/ min. focusing distance48° x 36° / 0.3 mGeometric resolution (IFOV)3.3 mradGeometric resolution (IFOV)3.3 mradGeometric resolution (IFOV)3.3 mradSpectral range9 HzFocusFixedSpectral range8 to 14 µmVisual image output0.4 mImage size / min. focusing distance0.4 mMeasuring range-20 to +350 °CAccuracy $\pm 3°$ C or $\pm 3 %$ of m.v. (at ambient temperature of -10 $\pm 40$ °C and scene temperature of 0 $\pm 150 °$ C or $\pm 100 \pm 350 °C)$ Ernissivity/reflected temperature adjustment0.01 to 1 / manual (via testo Smart App)Measurement functionsInte testo Smart App)Analysis functionsHot/cold spots, Delta T, up to 10 selectable individual measuring points, area measurement (min./max. on area)Application-specific measurement functionsAutomatic transfer of the optional testo 605i or testo 625 thermohygrometer readings via Bluetooth to the testo Smart AppHumidity mode – manualInput of current, voltage or power manualItage presentation (in the testo Smart App)Image presentation (in the testo Smart App)Image presentation (in the testo Smart App)Ipalay optionsIR image, real image (overlay in IRSoft possible)Fullscreen modeYesColour palettesIron, rainbow, rainbow HC, cold-hot, blue- red, grey, inverted grey, sepia, Testo, iron HT, humidity palette </th <th>Infrared image output</th> <th></th>	Infrared image output	
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Focus       Fixed         Spectral range       8 to 14 µm         Visual image output       640 x 480 pixels / 0.4 m         Image size / min. focusing distance       0.4 m         Measurement       0.4 m         Measuring range       -20 to +350 °C         Accuracy       ±3 °C or ±3 % of m.v. (at ambient temperature of -10 +40 °C and scene temperature of 0 +150 °C or +100 +350 °C)         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 functions         Application-specific measurement functions       DeltaHeat, DeltaCool, humidity mode         Manual       Yes         Humidity mode – manual       Automatic transfer of the optional testo 605i or testo 625 thermohygrometer readings via Bluetooth to the testo Smart App         Electrical mode – manual       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)       Input of current, voltage or power         Display options       IR image, real image (overlay in IRSoft possible)         Fullscreen mode       Yes         Colour palettes       Iron, rainbow, rainbow HC, cold-hot, blue- red, grey, inverted gre		3.3 mrad
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Visual image output         Image size / min.         focusing distance         Measurement         Measurement         Measuring range         Accuracy         ±3 °C or ±3 % of m.v. (at ambient temperature of 10 +40 °C and scene temperature of 10 +40 °C and scene temperature of 10 +150 °C or +100 +350 °C)         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       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)       Input of current, voltage or power         Display options       IR image, real image (overlay in IRSoft possible)         Fullscreen mode       Yes         Colour palettes       Iron, rainbow, rainbow HC, cold-hot, blue- red, grey, inverted grey, sepia, Testo, iron HT, humidity palette	Focus	Fixed
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Remote-controlled operation     Up to 10 m from the mobile device (via WLAN)       Power supply	File format	in IRSoft), .jpg, and .csv files with the
operation (via WLAN) Power supply	Image storage	On a mobile device
Battery type Integrated Li-ion rechargeable battery	Power supply	
	Battery type	Integrated Li-ion rechargeable battery

	1
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	-10 to +50 °C
Storage temperature range	-20 to +70 °C
Air humidity	5 to 95 %RH, non-condensing
Housing protection class (IEC 60529)	IP54
Impact resistance test	1.5 m
Vibration	IEC 60068-2-6
Physical features	
Weight	195 g
Dimensions	165 x 45 x 38 mm
Mobile device attachment	Clip span: min. 120 mm, max. 170 mm and device depth up to max. 12 mm
Tripod socket	1⁄4" 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 advertising for fast connection set-up
Standards, tests	
Standards	Declaration of conformity: See <u>www.testo.com/eu-conformity</u>
* An avanuiow of the rad	in authorizations in the different countries can

\* 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. 1981 4134/dk/TT/01.2025



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