

Thermal imager

testo 872s - Smart thermography with the highest image quality.

Infrared resolution 320 x 240 pixels with testo SuperResolution technology 640 × 480 pixels

Thermal sensitivity (NETD) of < 0.09 °F (0.05 °C) (50 mK)

testo Thermography App for on-site analysis and report generation

Integration of further measurement parameters via Bluetooth

Automatic detection of hot and cold spots

testo ScaleAssist for comparable images in building thermography, and IFOV warner

Integrated 5 MP digital camera

Integrated laser marker – also precisely visible as a measuring point in the thermal image



The testo 872s thermal imager stands out thanks to its resolution of 320×240 pixels (640 X 480 pixels with testo SuperResolution), a very high thermal sensitivity, numerous innovative functions, smartphone connection via the testo Thermography App and the best price-performance ratio of its class.

In addition to this, it fits comfortably in the hand and convinces with intuitive operation in a modern tile look. For even more meaningful thermal images, the testo 872s thermal imager also integrates the measurement values of the (optional) testo 605i thermohygrometer Smart Probe via Bluetooth.



Ordering data

testo 872s

testo 872s thermal imager with integrated testo SuperResolution technology, radio module BT/Wi-Fi, USB cable, power supply, lithium-ion rechargeable battery, professional software (free download), 3 x testo ε-markers, commissioning instructions, calibration protocol and case

Order no. 0560 8725



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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.

Download on the App Store





Accessories	Order no.
Spare battery, additional Li-ion rechargeable battery extending the operating time.	for 0554 8721
Battery-charging station, desktop charging station for optimizing the charge time.	0554 1103
testo ϵ -marker (10), markers for the testo ϵ -Assist function for the automatic determination of emissivit and reflected temperature.	0554 0872 Y
Holster case	0554 7808
PC software testo IRSoft for analysis and reporting	0501 8809
NIST Temperature certificate for thermal imagers (5 temperature points)	400520 1913

Compatible measuring instruments for more meaningful thermal images

Order no.

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

- Measurement of air humidity and air temperature
- Direct transmission of measured values to the testo 872a thermal imager via Bluetooth and detection of mold-risk areas with traffic light principle

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testo ScaleAssist

Since the temperature scale and coloring of thermal images can be adapted individually, it is possible that the thermal behavior of a building, for example, can be wrongly interpreted. The testo ScaleAssist function solves this problem by adjusting the color distribution of the scale to the interior and exterior temperature of the measurement object and the difference between them. This ensures objectively comparable and error-free thermal images.



Thermal image without ScaleAssist



Thermal image with ScaleAssist



Technical data

Infrared image output	
Infrared resolution	320 x 240 pixels
Thermal sensitivity (NETD)	< 0.09 °F (0.05 °C) (50 mK)
Field of view/min.	42° x 30° /
focusing distance	< 1.6 ft (0.5 m)
Geometric resolution (IFOV)	2.3 mrad
testo SuperResolution (pixels/IFOV)	640 x 480 pixels 1.3 mrad
Image refresh rate	9 Hz
Focus	Fixed focus
Spectral range	7.5 to 14 µm
Visual image output	· ·
Image size / min.	5 MP /
focusing distance	min. 1.6 ft (0.5 m)
Image presentation	
Image display	8.9 cm (3.5") TFT, QVGA
Digital zoom	2x, 4x
Display options	IR image / real image
Color palettes	Iron, rainbow, rainbow HC, cold-hot, blue-red
Color palettes	grey, inverted grey, sepia, Testo, iron HT
Data interface	
Wi-Fi Connectivity	Communication with the testo Thermography App
Bluetooth ¹⁾	Measurement value transfer from thermohygrometer testo 605i (optional)
USB 2.0 micro B	V
Measurement	
Measuring ranges	Measuring range 1: -22 to 212°F (-30 to +100 °C) Measuring range 2: 0 to 1,202 °F (0 to +650 °C) Manual/automatic switchover
Accuracy	±3.6 °F (±2 °C), ±2 % of measured value (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
testo ε-Assist Measuring functions	_
	determination of reflected temperature (RTC
Measuring functions	Centre point measurement, hot/cold-spot recognition, Delta T, area measurement (min
Measuring functions Analysis functions	Centre point measurement, hot/cold-spot recognition, Delta T, area measurement (min max on area)
Measuring functions Analysis functions testo ScaleAssist	Centre point measurement, hot/cold-spot recognition, Delta T, area measurement (min max on area)
Measuring functions Analysis functions testo ScaleAssist IFOV warner Humidity mode –	Centre point measurement, hot/cold-spot recognition, Delta T, area measurement (min max on area) Automatic data transfer of testo 605i thermohygrometer via Bluetooth (instrument)
Measuring functions Analysis functions testo ScaleAssist IFOV warner Humidity mode – manual Humidity measurement with humidity measuring	determination of reflected temperature (RTC Centre point measurement, hot/cold-spot recognition, Delta T, area measurement (min max on area)

Imager features		
Digital camera	✓	
Lens	42° x 30°	
Laser	Laser class 2	
Video streaming	via USB via Wi-Fi with testo Thermography App	
Storage as JPG	<i>'</i>	
Fullscreen mode	V	
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	lithium ion rechargeable battery exchangeabl on site	
Operating time	4 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 °F (-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	1.12 lbs (510 g)	
Dimensions (LxWxH)	8.6 X 3.8 X 3.7 in (219 x 96 x 95 mm)	
Housing	PC - ABS	
PC software		
System requirements	Windows 10, Windows 8.1	
Standards, tests		
EU Directive	EMC: 2014/30/EU RED: 2014/53/EU	



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Subject to change without notice.