Be sure. **testo**

Test Equipment Depot - 800.517.8431 - 5 Commonwealth Ave, MA 01801 - TestEquipmentDepot.com

Thermal imager

testo 868s – smart and networked thermography.

Infrared resolution 160 x 120 pixels
with testo SuperResolution technology 320 × 240 pixels

Thermal sensitivity (NETD) of < 0.14 °F (0.08 °C) (80 mK)

testo Thermography App for on-site analysis
and report generation

Automatic detection of hot and cold spots

testo ScaleAssist for comparable images
in building thermography

Integrated 5 MP digital camera

IFOV warner for displaying the measurement spot size

°F

°C

Thermography connected – with the testo 868s thermal imager. It has the best thermal image quality in its class, an integrated digital camera, and stands out thanks to smart new features with intuitive operation in a modern tile look.

The testo Thermography App turns your smartphone or tablet into a second display. In addition to this, you can operate the imager with the App as well as creating and sending reports on site.

Ordering data

testo 868s

testo 868s thermal imager with integrated testo
SuperResolution technology, Wi-Fi radio module,
USB cable, power supply, lithium-ion rechargeable
battery, professional software (free download), 3
x testo ε-markers, commissioning instructions,
certificate of calibration, and case

Order no. 0560 8684

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
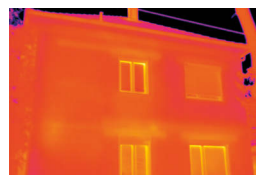them online. Download for Android or iOS now
free of charge.

Accessories	Order no.
Spare battery, additional Li-ion rechargeable battery for extending the operating time.	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 emissivity and reflected temperature.	0554 0872
Holster case	0554 7808
PC software testo IRSoft for analysis and reporting	0501 8809

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	160 x 120 pixels
Thermal sensitivity (NETD)	< 0.14 °F (0.08 °C) (80 mK)
Field of view/min. focusing distance	31° x 23° / < 1.6 ft (0.5 m)
Geometric resolution (IFOV)	3.4 mrad
testo SuperResolution (pixels/IFOV)	320 x 240 pixels 2.1 mrad
Image refresh rate	9 Hz
Focus	Fixed focus
Spectral range	7.5 to 14 µm
Visual image output	
Image size / min. focusing distance	5 MP / min. 1.6 ft (0.5 m)
Image presentation	
Image display	3.5 in (8.9 cm) TFT, QVGA
Display options	IR image / real image
Color palettes	iron, rainbow HC, cold-hot, grey
Data interface	
Wi-Fi Connectivity	Communication with the testo Thermography App Wireless module Wi-Fi (EU, EFTA, USA, AUS, CDN, TR)
USB 2.0 micro B	✔
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)
Measuring functions	
Analysis functions	Centre point measurement, hot/cold spot detection, delta T
testo ScaleAssist	✔
IFOV warner	✔

Imager features	
Digital camera	✔
Lens	31° x 23°
Video streaming	via USB via Wi-Fi with testo Thermography App
Storage as JPG	✔
Fullscreen mode	✔
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 exchangeable 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