Be sure. **testo**

Thermal imager

testo 868 – smart and networked thermography.

Infrared resolution 160 x 120 pixels

testo SuperResolution technology 320 x 240 pixels

With testo Thermography App

Integrated digital camera

Automatic recognition of hot-cold spots

testo ScaleAssist for comparable images in building thermography

testo ε-Assist for the automatic determination of emissivity

°C

testo Thermography App
for free download

GET IT ON Google Play   Download on the App Store

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

The testo Thermography App wirelessly integrates measurement values, turning 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.

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Ordering data

testo 868

Thermal imager testo 868 with integrated
testo SuperResolution, wireless LAN module,
USB cable, mains unit, Lithium ion
rechargeable battery, pro software (free download),
3 x ε-markers, quick-start guide, short instructions,
calibration certificate and case

Order no. 0560 8681

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.

GET IT ON Google Play

Download on the App Store

Accessories	Order no.
Spare battery, additional Lithium ion rechargeable battery for extending the operating time.	0515 5107
Battery charger, desktop charging station for optimizing the charge time.	0554 1103
testo ε-marker (10 off), 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 data analysis and reporting	0501 8809

testo ε-Assist

For precise thermal images, it is important to set the
emissivity (ε) and the reflected temperature of the object
being examined in the imager. Previously, this was
complicated, and with regard to the reflected temperature,
less than accurate. This changes with testo ε-Assist: Simply
attach one of the reference stickers included in delivery to
the measurement object. Via the integrated digital camera,
the thermal imager recognizes the sticker, determines the
emissivity and reflected temperature and sets both values
automatically.

testo ScaleAssist

Since the temperature scale and colouring of thermal
images can be adapted individually, it is possible that
the thermal behaviour of a building, for example, can be
wrongly interpreted. The testo ScaleAssist function solves
this problem by adjusting the colour 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)	100 mK
Field of view/min. focusing distance	31° x 23° / < 0.5 m
Geometric resolution (IFOV)	3.4 mrad
testo SuperResolution (Pixel/IFOV)	320 x 240 pixels 2.1 mrad
Image refresh rate	9 Hz
Focus	Fixed focus
Spectral range	7.5 to14 µm

Visual image output	
Image size / min. focusing distance	at least 3.1 MP / 0.5 m

Image presentation	
Image display	8.9 cm (3.5") TFT, QVGA (320 x 240 pixels)
Display options	IR image / real image
Colour palettes	iron, rainbow HC, cold-hot, grey

Data interfaces	
WLAN Connectivity	Communication with the testo Thermography App wireless module WLAN (EU, EFTA, USA, AUS, CDN, TR)
USB 2.0 Micro B	✔

Measurement	
Measuring ranges	Measuring range 1: -30 to +100 °C Measuring range 2: 0 to +650 °C
Accuracy	±2 °C, ±2 % of measurement value (larger value applies)
Emissivity / reflected temperature compensation	0.01 to 1 / manual
testo ε-Assist	Automatic recognition of emissivity and determination of reflected temperature (RTC)

Measurement functions	
Analysis functions	Mean point measurement, hot/cold-spot recognition, Delta T,
testo ScaleAssist	✔
IFOV warner	✔

Imager equipment	
Digital camera	✔
Lens	31° x 23°
Video streaming	via USB, via wireless LAN 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	Li-ion battery can be changed on-site
Operating time	4 hours
Charging options	In instrument/in charging station (optional)
Mains operation	✔

Ambient conditions	
Operating temperature range	-15 to +50 °C
Storage temperature range	-30 to +60 °C
Air humidity	20 to 80 %RH, not condensing
Housing protection class (IEC 60529)	IP54
Vibration (IEC 60068-2-6)	2G

Physical features	
Weight	510 g
Dimensions (LxWxH)	219 x 96 x 95 mm
Housing	PC - ABS

PC software	
System requirements	Windows 10, Windows 8, Windows 7

Standards, tests	
EU directive	EMC: 2014/30/EU RED: 2014/53/EU

Subject to change without notice.

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