GENERAFRIO

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Data sheet
testo 868

Thermal imager

testo 868 – smart and networked thermography.

- Infrared resolution 160 x 120 pixels with testo SuperResolution technology 320 × 240 pixels
- Thermal sensitivity (NETD) of < 0.08 °C (80 mK)
- With 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

°C

testo Thermography App
for free download

GET IT ON Google Play | Download on the App Store

Thermography connected – with the testo 868 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 with a modern tile appearance.

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 868

testo 868 thermal imager with integrated testo SuperResolution technology, radio module WLAN, USB cable, mains unit, lithium- ion rechargeable battery, professional software (free download), 3 x testo ε-markers, commissioning instructions, calibration protocol and case

Order no. 0560 8681

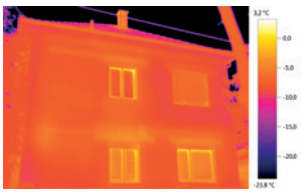
testo Thermography App
With the testo Thermography App, your smartphone/tablet becomes a second display, and a remote control for your thermal imager. In addition to this, you can use the App to create and send compact reports on site, and to save them online. Download for Android or iOS now free of charge.

Download on the App Store

GET IT ON Google Play

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 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 analysis and reporting	0501 8809	

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)	<0.08 °C (80 mK)
Field of view/min. focusing distance	31° x 23° / < 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. 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 interface	
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 Manual/automatic switchover
Accuracy	±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 WLAN 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)
Mains operation	✔
Ambient conditions	
Operating temperature range	-15 to +50 °C
Storage temperature range	-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	510 g
Dimensions (LxWxH)	219 x 96 x 95 mm
Housing	PC - ABS
PC software	
System requirements	Windows 11, 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.

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