

Thermal imager

testo 868 - smart and networked thermography.

Infrared resolution 160 x 120 pixels (with 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



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.



Ordering data

testo 868

Thermal imager testo 868 with wireless LAN module, USB cable, mains unit, Lithium ion rechargeable battery, pro software, 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.







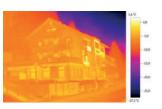
Accessories	Order no.	
Spare battery, additional Lithium ion rechargeable battery for extending the operating time.	0515 5107	
Battery charger, desktop charging station for optimizing the charge time.	0554 1103	
testo ϵ -marker (10 off), markers for the testo ϵ -Assist function for the automatic determination of emissivity and reflected temperature.		
Holster case	0554 7808	

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.	31° x 23° /	
focusing distance	< 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	V	
Measurement		
Measuring ranges	Measuring range 1: -30 to +100 °C Measuring range 2: 0 to +650 °C	
Accuracy	±2 °C, ±2 % of measured value	
Emissivity / reflected temperature compensation	0.01 to 1 / manual	
testo ε-Assist	Automatic recognition of emissivity and determination of reflected temperature (RTC)	
Measurement function	ns	
Analysis functions	Mean point measurement, hot/cold-spot recognition, Delta T,	
testo ScaleAssist	V	
IFOV warner	V	
Imager equipment		
Digital camera	V	
Lens	31° x 23°	
Video streaming	via USB, via wireless LAN with testo Thermography App	
Storage as JPG	V	
Fullscreen mode	V	

Image storage			
File format	.bmt and .jpg; export options in .bmp, .jpgpng, .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, warranty			
EU directive	EMC: 2014/30/EU RED: 2014/53/EU		
Warranty	2 years		
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