

We measure it.



Data sheet

Thermal imager

testo 869 – thermal imager for every toolbox.

Infrared resolution 160 x 120 pixels

Thermal sensitivity <120 mK

Fixed focus 34° lens

Automatic recognition of hot-cold spots

Infrared JPEG images



The testo 869 thermal imager was specifically developed in collaboration with experts from heating engineering, the building trade, facility management and maintenance to meet your requirements – for example to detect leaks, to pinpoint thermal bridges or to visualize overheated connections. Its large display, high-quality detector, wide field of view and simple operation will enable you to

work better, quicker and more productively. It combines high infrared performance with easy operation, at an unbeatable price. The result: the new testo 869 makes high-quality thermography affordable for everyone, and belongs in every toolbox.

Technical data

Infrared image output	
Infrared resolution	160 x 120 pixels
Thermal sensitivity (NETD)	<120 mK at +30 °C
Field of vision/min. focusing distance	34° x 26° / <0.5 m (fixed focus)
Geometric resolution (IFOV)	3.68 mrad
Image refresh rate	9 Hz
Focus	Fixed focus
Spectral range	7.5 to 14 µm
Image presentation	
Image display	3.5" LCD with 320 x 240 pixels
Display options	IR image only
Colour palettes	4 (iron, rainbow HC, cold-hot, grey)
Measurement	
Measuring range	-20 to +280 °C
Accuracy	±3 °C, ±3 % of m.v.
Emissivity / reflected temperature compensation	0.01 to 1 / manual
Measurement functions	
Analysis functions	Mean point measurement hot/cold spot recognition
Imager equipment	
Lens	34° x 26°
Save JPEG	✓
Fullscreen mode	✓

Image storage	
File format	.bmt and .jpg; export options in .bmp, .jpg, .png, .csv, .xls
Memory	Internal storage (1.6 GB / >2000 images)
Power supply	
Battery type	Li ion rechargeable battery exchangeable on site
Operating time	4 hours
Charging options	In instrument/in charging station
Mains operation	yes
Ambient conditions	
Operating temp. range	-15 to +50 °C
Operating temp. 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	550 g
Dimensions (LxWxH)	219 x 96 x 95 mm
housing	PC - ABS
PC software	
System requirements	Windows XP (Service Pack 3), Windows Vista, Windows 7 Windows 8, Windows 10 interface: USB 2.0
Standards, tests, warranty	
EU Directive	2004 / 108 / EC
Warranty	2 years

Ordering data and accessories

	Order no.	
testo 869 thermal imager including Pro software, USB cable, mains unit and Li-ion rechargeable battery.	0560 8690	
High-quality transport case	0516 8700	
Holster case	0554 7808	
Additional battery. Additional lithium ion rechargeable battery for extending the operating time.	0515 5100	
Battery charging station. Table charging station for optimising the charge time.	0554 1103	
Emission tape. Adhesive tape e.g. for shiny surfaces (roll, L.: 10 m, W.: 25 mm), ε = 0.95, temperature-resistant up to +250 °C	0554 0051	