Thermal imager

testo 865 –
Switch on, aim, know more.

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

Thermal sensitivity (NETD) of < 0.1 °C (100 mK)

Automatic detection of hot and cold spots

testo ScaleAssist for comparable images
in building thermography

IFOV warner for displaying the measurement spot size

°C

The thermal imager testo 865 is the ideal entry into the world of thermography. It impresses with the best image quality in its class and intuitive operation in a modern tile look. The testo 865 fits comfortably in the hand and is robust enough to withstand the rigours of everyday use.

Helpful functions such as IFOV-Warner and Scale Assist ensure even better thermal images. All that combined with an unbeatable price-performance ratio. Switch on, point, know more.

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testo 865

Ordering data

testo 865

Thermal imager testo 865 with integrated testo SuperResolution technology, USB cable, mains unit, Lithium ion rechargeable battery, pro software (free download), quick-start guide, calibration certificate and case

Order no. 0560 8650

Accessories	Order no.
Spare battery, additional Lithium ion rechargeable battery for extending the operating time.	0554 8721
Battery charger, desktop charging station for optimizing the charge time.	0554 1103
Emissivity tape, adhesive tape e.g. for bare surfaces (roll, L.: 10 m, W.: 25 mm), ε = 0.95, temperature-proof up to +250 °C.	0554 0051
Holster case	0554 7808
PC software testo IRSoft for data analysis and reporting	0501 8809

Technical data

Infrared image output	
Infrared resolution	160 x 120 pixels
Thermal sensitivity (NETD)	<0.1 °C (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

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

Data interfaces	
USB 2.0 Micro B	✔

Measurement	
Measuring range	-20 to +280 °C
Accuracy	±2 °C, ±2 % of measurement value (larger value applies)
Emissivity / reflected temperature compensation	0.01 to 1 / manual

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

Imager equipment	
Lens	31° x 23°
Video streaming	via USB
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 8.1

Standards, tests	
EU directive	2014/30/EU

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