

# Thermal imager

**testo 865s –  
Power on, aim, analyze.**

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

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Thermal sensitivity (NETD) of < 0.18 °F (0.1 °C) (100 mK)

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Automatic detection of hot and cold spots

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testo ScaleAssist for comparable images  
in building thermography

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IFOV warmer for displaying the measurement spot size

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The thermal imager testo 865s 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 865s fits comfortably in the hand and is robust enough to withstand the rigors 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.

## Ordering data

### testo 865s

Thermal imager testo 865s with integrated testo SuperResolution technology, USB cable, power supply, Lithium ion rechargeable battery, pro software (free download), quick-start guide, certificate of conformity and case

Order no. 0560 8651



#### 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.: 32.8 ft, W.: 1 in. ), $\epsilon = 0.95$ , temperature-proof up to 482 °F (+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)	<0.18 °F (0.1 °C) (100 mK)
Field of view/min. focusing distance	31° x 23° / < 1.6 ft (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 to 14 µm
Image presentation	
Image display	3.5 in (8.9 cm) TFT, QVGA
Display options	IR image
Color palettes	iron, rainbow HC, cold-hot, grey
Data interfaces	
USB 2.0 Micro B	✓
Measurement	
Measuring range	-4 to 536 °F (-20 to +280 °C)
Accuracy	±3.6 °F (±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)
Power Supply Included	✓
Ambient conditions	
Operating temperature range	5 to 122 °F (-15 to +50 °C)
Storage temperature range	-22 to 140 °F (-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	1.12 lbs (510 g)
Dimensions (LxWxH)	8.6 X 3.8 X 3.7 in (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