

Be sure. **testo**



NEW!

Next level thermography.

The new testo 865s/868s/871s/872s thermal imagers
impress with the best image quality in their class.

Committed to innovation.

For over 30 years, we have been developing and manufacturing thermal imagers in Germany for a wide range of requirements. Our four newest imagers offer the right model for every application. They are not only innovative, well thought-out, and easy to operate - but also impress with the best image quality in their class.

The top features of the new thermal imagers:

- + **Informative thermal images:**
High resolution and very good NETD
- + **Smart and networked:**
Connection of testo 605i Smart Probe Thermohygrometer and free testo Thermography App (iOS / Android)
- + **Intuitive operation:**
modern tile optics and quick select button



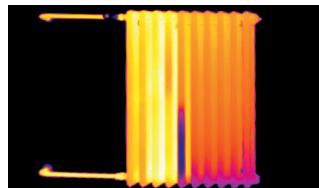
Only one of many functions:
Networked and efficient
thermal imaging with the **testo**
Thermography App.

This is why you need a thermal imager.

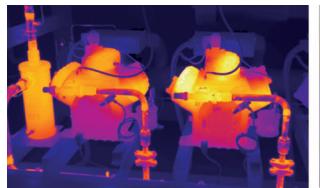
In contracting as well as in the industrial sector, you profit considerably from the use of a thermal imager:

- Carry out status-oriented servicing work and prevent expensive system downtimes.
- Overcome the limitations of a pyrometer by measuring not just individual points but whole areas.
- Deal with jobs such as leakage detection or tests on plants and building sections more quickly than before, thus saving time and money.

- Always provide best quality and ensure the satisfaction of your customers – for example by testing and impressively presenting the faultless fitting of insulation or the functionality of a heating system.
- Win new customers with your professional appearance, supported by a thermal imager.



Ensure function and quality:
Identify faults in radiators at a glance.



Save time and resources:
Localize anomalies and leakages on pipelines.



Maintaining plants: Identify excessively high temperatures in circuit breakers and electrical components before breakdowns can occur.



Detect energy losses from buildings: immediately identify and record thermal bridges in building fronts or shells.

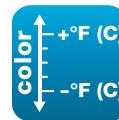


Convincing features for efficient thermography.



High resolution and image quality

Up to 320 x 240 pixels – 640 x 480 pixels with **testo SuperResolution**. Image quality and resolution are ideal for all applications in contracting and industry.



Objectively comparable images

testo ScaleAssist adapts the thermal image scale to the inner and outer temperatures of the measurement object, and the difference between them. This ensures comparable and error-free thermal images of the thermal insulation behavior of a building.



Display of the measuring spot size

The **IFOV warner** illustrates which measurement object can be correctly and precisely measured at which distance. This ensures that surrounding objects do not falsify the surface temperature of the targeted target.



Connection to App and testo 605i Smart Probe

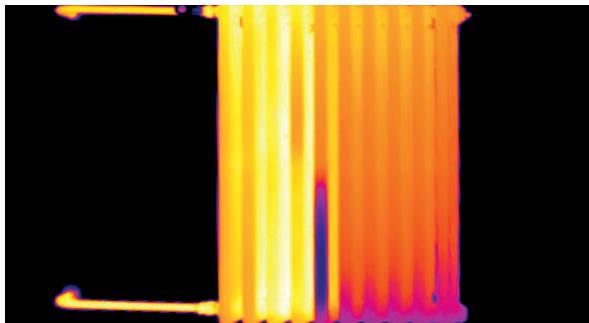
Create and send compact reports on site with the **testo Thermography App**. Transfer the measurement values of the testo 605i Smart Probe Thermohygrometer wirelessly to the the imagers, in order to identify mold danger.

The right model for every requirement.

testo 865s

Switch on, point, analyze.

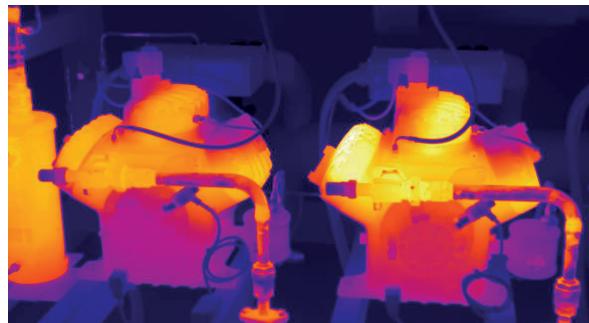
With 160 x 120 pixels, your ideal entry into thermography: Visualize temperature differences from 0.18 °F (0.10 °C), and automatically recognize hot-cold spots.



testo 868s

Smart and networked thermal imaging.

Integrated digital camera and 160 x 120 pixel thermal images in which temperature differences of 0.14 °F (0.08 °C) are visible. Incl. thermography App in order to work more flexibly and send reports on site.



testo 871s

Smart thermography for professional requirements.

Resolution: 240 x 180 pixels, identify temperature differences from 0.14 °F (0.08 °C). Incl. digital camera and testo Thermography App. Integrates measurement values from the testo 605i thermohygrometer.



testo 872s

Smart thermography with optimum image quality.

Professional thermal imager with 320 x 240 pixels, digital camera, laser marker and the certainty of knowing you can identify temperature differences from 0.09 °F (0.05 °C). Integrates measurement values from the testo 605i thermohygrometer.



Precise thermal images are easy with these functions.

testo ScaleAssist:

Comparable thermal images

With testo ScaleAssist, the correct evaluation of construction errors and thermal bridges is easier than ever before. The function automatically sets the optimum thermal image scale. This prevents interpretation errors which can be caused by a false evaluation of the scaling. Undesired extreme

temperatures are automatically filtered out of the image, and are only represented as such when they really are present. This makes infrared images comparable in spite of altered ambient conditions. This is of great significance in before-and-after images, for example.

Without **testo ScaleAssist**



With **testo ScaleAssist**



IFOV warner: You always know what can be measured precisely from a certain distance.

testo ε-Assist:

Set emissivity automatically

For precise thermal images, it is important to set the emissivity (ϵ) and the reflected temperature (RTC) of the object being examined in the imager. Previously, this was complicated, and with regard to the reflected temperature, less than accurate.

testo ϵ -Assist changes all that:

Attach **testo ε-marker** and record the object with the digital camera in the thermal imager.



ε and RTC are automatically determined.

Precise thermography of object.



Simply attach one of the reference stickers (ϵ -markers) 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.

Work smart and networked.

The **testo Thermography App**

With the free testo Thermography App, available for iOS and Android, compact reports can be made quickly, saved online, and sent by e-mail. Additionally, the App offers useful tools for fast analysis on site – for example for inserting additional measurement points, determining the temperature development via a line, or adding comments to a thermal image. Also very useful: With the App you can transmit thermal images live to your smartphone/tablet, and can use it as a second display – for example for your customers.

testo Thermography App for testo 868s/871s/872s
Download now for iOS or Android free of charge:



Connectivity with **testo 605i Smart Probe Thermohygrometer**

The testo 871s/872s thermal imagers can be connected wirelessly to the testo 605i Smart Probe Thermohygrometer. The measurement values of are transmitted to the imagers by

Bluetooth. This allows you to identify quickly and clearly in the thermal image exactly where damp spots are in a building.



testo 605i Thermohygrometer

- Compact professional measuring instrument from the Testo Smart Probes series
- Measures air temperature and relative humidity
- Space-saving and easy to transport



**testo 871s/872s
Thermal imagers**



The thermal imagers in comparison.



	testo 865s	testo 868s	testo 871s	testo 872s
Infrared resolution	160 x 120 pixels (320 x 240 pixels with testo SuperResolution)	160 x 120 pixels (320 x 240 pixels with testo SuperResolution)	240 x 180 pixels (480 x 360 pixels with testo SuperResolution)	320 x 240 pixels (640 x 480 pixels with testo SuperResolution)
Thermal sensitivity (NETD)	< 0.18 °F (0.10 °C) (100 mK)	< 0.14 °F (0.08 °C) (80 mK)	< 0.14 °F (0.08 °C) (80 mK)	< 0.09 °F (0.05 °C) (50 mK)
Measuring range	-4 to 536 °F (-20 to +280 °C)	-22 to 1,202 °F (-30 to +650 °C)	-22 to 1,202 °F (-30 to +650 °C)	-22 to 1,202 °F (-30 to +650 °C)
Field Of View (FOV)	31° x 23°	31° x 23°	35° x 26°	42° x 30°
App connection via wireless LAN	-	✓	✓	✓
Integrated 5 MP digital camera	-	✓	✓	✓
IFOV warner	✓	✓	✓	✓
testo ScaleAssist	✓	✓	✓	✓
Humidity mode Evaluate mold risk with traffic-light scale	-	-	✓	✓
testo e-Assist	-	✓	✓	✓
Connection of testo 605i Smart Probe via Bluetooth	-	-	✓	✓
PC software testo IRSoft Free, licence-free software for comprehensive analysis and reporting	✓	✓	✓	✓
Laser marker	-	-	-	✓

Thermal imagers from Testo.

Since Testo was established in 1957, the company has gained vast experience in temperature measurement – all which forms the basis of thermography. In 2007 we launched the first thermal imager developed entirely in Germany, to the market. Ever since then, our thermal imagers have been manufactured exclusively in Germany – this enables us to maintain the consistent and very high quality of the instruments.

At our site in Titisee, Baden-Württemberg, highly-qualified staff are working on developing practical functions and new technologies for the thermal imagers of the future. Our developers and product managers always work together with knowledgeable experts such as heating engineers, electricians, building contractors, service engineers, and facility managers. Being aware of the exact requirements of our target groups is the only way to ensure that we develop thermal imagers which enable you to view your systems and processes in a whole new light.

Models and accessories.

testo 865s

testo 865s thermal imager with integrated testo SuperResolution technology, USB cable, power supply, lithium-ion rechargeable battery, professional software (free download), commissioning instructions, calibration protocol and case

Order no. 0560 8651



testo 871s

testo 871s thermal imager with integrated testo SuperResolution technology, radio module BT/Wi-Fi, USB cable, power supply, lithium-ion rechargeable battery, professional software (free download), 3 x testo ε-markers, commissioning instructions, calibration protocol and case

Order no. 0560 8716



testo 868s

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

Order no. 0560 8684



testo 872s

testo 872s thermal imager with integrated testo SuperResolution technology, radio module BT/Wi-Fi, USB cable, power supply, lithium-ion rechargeable battery, professional software (free download), 3 x testo ε-markers, commissioning instructions, calibration protocol and case

Order no. 0560 8725



Accessories	Description	Order no.
Spare rechargeable battery	Additional lithium-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-markers	Ten markers for the testo ε-Assist function for the automatic determination of emissivity and reflected temperature.	0554 0872
Holster case		0554 7808
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.	 

Compatible measuring instruments for more meaningful thermal images

testo 605i thermohygrometer

with smartphone operation, including batteries and calibration protocol

- Measurement of air humidity and air temperature
- Direct transmission of measured values to the testo 871s and testo 872s thermal imagers via Bluetooth and detection of mold-risk areas with traffic-light principle

Order no. 0560 2605 03

