

We measure it.



First choice for every job.

The new thermal imagers testo 865 – 872 have the best image in their class, making it easier than ever before for you to examine buildings and systems.

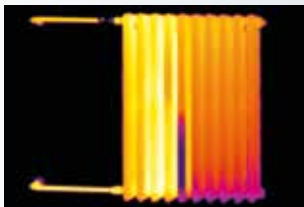


One of many new functions:
Efficient thermal imaging with the
testo Thermography App.

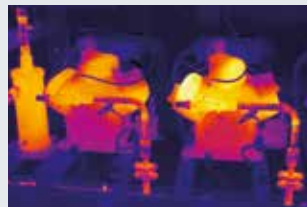
Why you need a thermal imager.

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

- You carry out status-oriented servicing work and prevent expensive system downtimes.
- You overcome the limitations of a pyrometer by measuring not just individual points but whole surfaces.
- You deal with jobs such as leakage detection or tests on plants and building sections more quickly than before, thus saving time and money.
- You 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.
- You 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: Localise anomalies and leakages on pipelines.



Maintain systems: 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 – increasing to 640 x 480 pixels with testo SuperResolution. Image quality and resolution are ideal for all applications in contracting and industry.



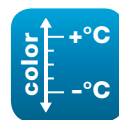
Connection to App and other Testo measuring instruments.

Create and send compact reports on site with the testo Thermography App. Transfer the measurement values of the testo 605i Thermohygrometer Smart Probe and the testo 770 Electrical Clamp Meter wirelessly to the imagers, in order to identify mould danger or to complement thermal images with current/voltage



Automatic setting of emissivity

The testo ε-Assist function automatically sets the emissivity and temperature of the measurement object, thus facilitating precise thermography.



Objectively comparable images

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

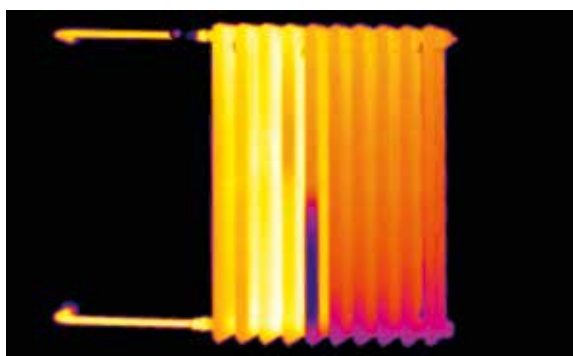


The right model for every measurement task.

testo 865

Switch on, aim,
know more.

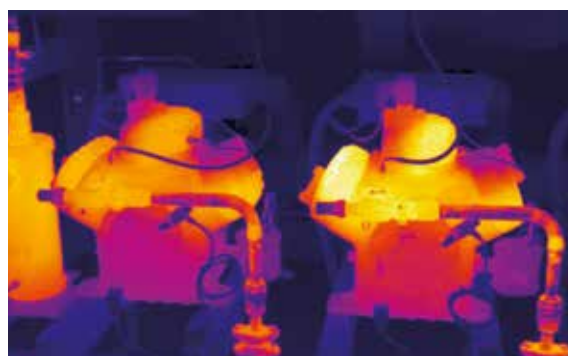
With 160 x 120 pixels, your ideal entry into thermography: Visualise temperature differences from 0.12 °C, and automatically recognise hot and cold spots.



testo 868

Smart and networked
thermal imaging.

Integrated digital camera and 160 x 120 pixel thermal images in which temperature differences of 0.12 °C are visible. Includes thermography App in order to work more flexibly and send reports on site.



testo 871

Smart thermography for
professional demands.

Resolution: 240 x 180 pixels, identify temperature differences from 0.09 °C. Includes digital camera and testo Thermography App. Integrates measurement values from the testo 605i Thermohygrometer Smart Probe and the testo 770-3 Clamp Meter via Bluetooth.



testo 872

Smart thermography with
the highest image quality.

Professional thermal imager with 320 x 240 pixels, digital camera, laser marker and the certainty of identifying temperature differences from 0.06 °C. Integrates measurement values from the testo 605i thermohygrometer Smart Probe and the testo 770-3 Clamp Meter.



Precise thermal images are easy with these **functions**.

testo ScaleAssist:

Comparable thermal images

With testo ScaleAssist, the 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 warning: 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 by the imager. Previously, this was complicated, and with regard to the reflected temperature, less accurate. This changes with testo ϵ -Assist:

Simply attach one of the reference stickers (ϵ -markers) included in delivery to the measurement object. Via the integrated digital camera, the thermal imager recognises the sticker, determines the emissivity and reflected temperature and sets both values automatically.

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.



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 email. In addition, 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, 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 868/871/872
Download now for iOS or Android devices free of charge:



Connectivity with the **testo 605i thermohygrometer** and **testo 770-3 electrical clamp meter**

The thermal imagers can be connected wirelessly with the Thermohygrometer testo 605i and the testo 770-3 TRMS Clamp Meter. The measurement values of both compact measuring instruments are transmitted to the imagers

by Bluetooth. This allows you to identify quickly and clearly in the thermal image where exactly in a building damp spots are located or at what load a switching cabinet is running. Both instruments are available as optional accessories.

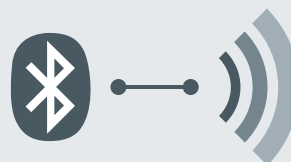


The **testo 770** clamp meter

- Easy to operate thanks to the fully retractable pincer arm
- Auto AC/DC and large two-line display
- Improved TRMS method

The **testo 605i** thermohygrometer Smart Probe

- Compact professional measuring instrument from the Testo Smart Probes series
- Measures air temperature and relative humidity



The **testo 871 / 872** thermal imager



The thermal imagers in comparison.



	testo 865	testo 868	testo 871	testo 872
Infrared resolution	160 x 120 pixels (with testo SuperResolution 320 x 240 pixels)	160 x 120 pixels (with testo SuperResolution 320 x 240 pixels)	240 x 180 pixels (with testo SuperResolution 480 x 360 pixels)	320 x 240 pixels (with testo SuperResolution 640 x 480 pixels)
Thermal sensitivity (NETD)	< 120 mK	< 100 mK	< 90 mK	< 60 mK
Measuring range	-20 to +280 °C	-30 to +650 °C	-30 to +650 °C	-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 digital camera	–	✓	✓	✓
IFOV warning	✓	✓	✓	✓
testo ScaleAssist	✓	✓	✓	✓
testo ε-Assist	–	✓	✓	✓
Connection of testo 605i and testo 770-3 via Bluetooth	–	–	✓	✓
Laser marker	–	–	–	✓

Models and accessories.

testo 865

testo 865 thermal imager with USB cable, mains unit, Lithium-ion rechargeable battery, quick-start guide, short instructions, calibration protocol and case.



Order no. 0560 8650

testo 868

testo 868 thermal imager with WiFi connection, USB cable, mains unit, Lithium-ion rechargeable battery, 3 x testo ε-markers, quick-start guide, short instructions, calibration protocol and case. IRSoft PC software downloadable from www.testo.co.uk



Order no. 0560 8681

testo 871

testo 871 thermal imager with Bluetooth and WiFi connection, USB cable, mains unit, Lithium-ion rechargeable battery, 3 x testo ε-markers, quick-start guide, short instructions, calibration protocol and case.





Order no. 0560 8711

testo 872

testo 872 thermal imager with Bluetooth and WiFi connection, USB cable, mains unit, Lithium-ion rechargeable battery, 3 x testo ε-markers, quick-start guide, short instructions, calibration protocol and case.



Order no. 0560 8721

Accessories	Description	Order no.	
Additional battery	Additional Lithium-ion rechargeable battery for extending the operating time.	0515 5107	
Battery charging station	Desktop charging station for optimising 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 devices 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 measurement values to the testo 872 thermal imager via Bluetooth and recognition of mould-risk spots with traffic-light system



Order no. 0560 1605

testo 770-3 clamp meter, including batteries and 1 set of measuring cables

- Easy to operate thanks to the fully retractable pincer arm
- Auto AC/DC and large two-line display
- Transmission of measurement values to the testo 872 thermal imager via Bluetooth



Order no. 0590 7703