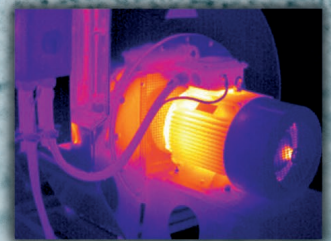
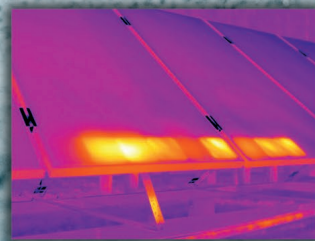
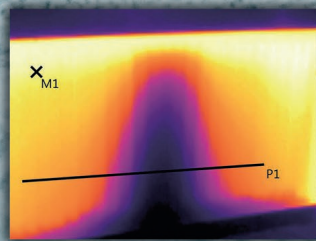
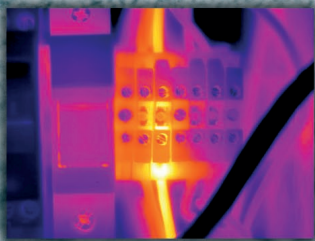


2020  
edition

Be sure. **testo**



# Testo thermal imaging cameras



**SUPER  
RESOLUTION**  
**4x**  
MORE PIXELS

See more. Know more. Do more.

[www.testo.co.uk](http://www.testo.co.uk)



# Simply see more **without contact.**

The measuring instrument for every application: there are hardly any measuring instruments that are as versatile as a thermal imager. The areas where the visualisation of temperatures makes your work easier include the following:

- In building thermography a Testo thermal camera helps you to detect thermal bridges and structural defects.
- In heating engineering you can use thermography to check underfloor heating is working properly or for the non-destructive detection of leaks.
- In maintenance a thermal camera enables you to see wear before systems fail.
- In electrical inspection, thermography enables the immediate and precise detection of both existing defects and potential sources of faults and danger.

#### Testo thermal imagers:

- prevent damage and save money
- stand out thanks to razor-sharp images
- ensure fast, comprehensive analysis
- are intuitively operated
- guarantee a large image section thanks to the wide-angle lenses



Optimum image resolution, high-quality system components and quality "Made in Germany": simply better thermography with Testo and the experience of 60 years in measurement technology!



### **For day-to-day work in buildings, heating, electrical and preventative maintenance**

Thanks to outstanding detector and lens quality as well as intelligent system solutions, details are never overlooked. In addition to the intuitive menu, the PC software IRSoft guarantees fast and comprehensive analysis of the image data.

Even the smallest temperature differences can be identified with the excellent temperature resolution of Testo thermal imagers. Thermography with Testo thermal imagers saves you time, energy and money.

### **Optimum image quality and innovative technology**

Testo offers the right thermal imager for every application in thermography. With high-quality germanium optics and the best detector quality, Testo thermal imagers guarantee optimum image quality for every thermographic application. With SuperResolution technology, the geometric resolution of each thermal image is improved by a factor of 1.6 – with four times more pixels.

### **High-performance, intuitive and reliable**

Intuitive operation and user-friendly handling offer security and flexibility in every situation. The high-performance PC software IRSoft offers extensive functions for the professional analysis of your thermal images: It allows sophisticated image analyses, provides templates for convenient reporting and with TwinPix offers image overlay of real and thermal images. This means the information from both these images can be presented together in one image on the PC.



### **What is thermography?**

Infrared radiation cannot be seen by the human eye. Thermal imagers, on the other hand, can convert this infrared radiation into electrical signals and present them as a thermal image. This makes the heat radiation visible for humans.

# testo thermal imaging camera range.

## testo 865 thermal imaging camera

- Infrared resolution 160 x 120 pixels
- SuperResolution technology available in the imager and App (to 320 x 240 pixels)
- Thermal sensitivity 0.12 °C
- Automatic detection of hot and cold spots
- IFOV warmer
- testo ScaleAssist
- Pro software for image evaluation on the PC

See pages 16 & 17



£699.00

## testo 868 thermal imaging camera

- Infrared resolution 160 x 120 pixels
- SuperResolution technology available in the imager and App (to 320 x 240 pixels)
- Thermal sensitivity 0.10 °C
- Automatic detection of hot and cold spots
- IFOV warmer
- Integrated digital camera
- Thermography App
- testo ScaleAssist- testo ε-Assist
- Pro software for image evaluation on the PC

See pages 18 & 19



£1,099

## testo 872 thermal imaging camera

- Infrared resolution 240 x 180 pixels
- SuperResolution technology available in the imager and App (to 480 x 360 pixels)
- Thermal sensitivity 0.09 °C
- Automatic detection of hot and cold spots
- IFOV warmer
- Integrated digital camera
- Thermography App
- testo ScaleAssist- testo ε-Assist
- Pro software for image evaluation on the PC
- Measurement mode for detecting areas with danger of mould
- Bluetooth connectivity with thermohygrometer testo 605i and clamp meter testo 770-3 (option)

See pages 20 & 21



£1,590

## testo 872 thermal imager building inspection kit with free testo 605i Smart Probe

- Infrared resolution 320 x 240 pixels
- SuperResolution technology available in the imager and App (to 640 x 480 pixels)
- Thermal sensitivity 0.06 °C
- Includes testo 605i smart thermohygrometer
- Automatic detection of hot and cold spots
- IFOV warmer
- Integrated digital camera and laser marker
- Thermography App
- testo ScaleAssist- testo ε-Assist
- Pro software for image evaluation on the PC
- Min/max/average on area
- Measurement mode for detecting areas with danger of mould
- Bluetooth connectivity with clamp meter testo 770-3 (option)

See pages 22 & 23

NEW FOR 2020  
testo 872 now with free testo 605i



£1,990

For even more meaningful thermal images, the testo 871 and 872 thermal imagers also integrate the measurement values of the clamp probe testo 770-3, as well as the thermohygrometer testo 605i via a Bluetooth connection.

The new testo 872 building inspection kit includes the testo 605i. The testo 605i is also available as an option on the testo 871. The testo 770-3 is available as an option with both thermal imagers.





### testo 875i

- Infrared resolution 160 x 120 pixels
- SuperResolution technology (to 320 x 240 pixels)
- Thermal sensitivity 0.05 °C
- Large field of view with 32° lens
- Exchangeable lenses
- Built-in digital camera with power LEDs
- Laser pointer
- Lens protection glass
- Voice recording using headset
- Min/max on area calculation
- Solar mode
- Measurement mode for detecting areas with danger of mould



from **£1,790**

See pages 24 & 25

### testo 882

- Infrared resolution 320 x 240 pixels
- SuperResolution technology (to 640 x 480 pixels)
- Thermal sensitivity 0.05 °C
- Large field of view with 32° lens
- Built-in digital camera with power LEDs
- Laser pointer
- Lens protection glass
- Voice recording using headset
- Min/max on area calculation
- Solar mode
- Measurement mode for detecting areas with danger of mould



**£2,990**

See pages 26 & 27

## Features of testo thermal imaging cameras.

**640 X 480** Good pixel resolution provides fine detail and clarity, increased 4x with testo SuperResolution

**App** Free App connection via WiFi (testo 868, 871, 872)

**NETD < 90 mK** Strong thermal sensitivity to highlight temperature differences

**Bluetooth** Bluetooth connectivity to testo 770-3 and 605i (testo 871, 872)

**32x23°** Display large image section thanks to wide field of view lenses

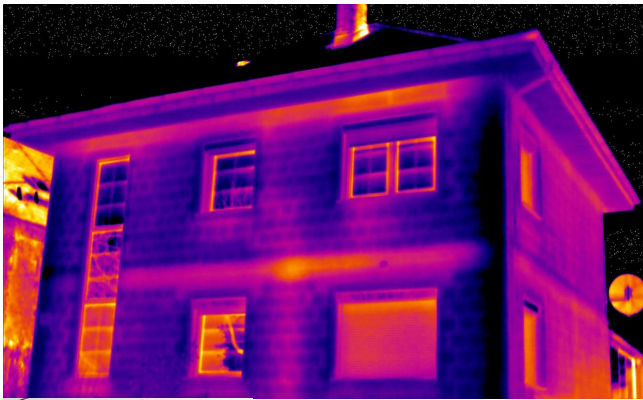
**Laser marker** (testo 871, 872, 875i, 882)

**-10.2°C / +83.4°C** Hot spot / cold spot recognition

**%RH** Surface moisture mode (testo 871, 872, 875-2i)

# Testo thermal imaging cameras for many applications.

Thermal imaging cameras are highly versatile and can be deployed wherever there is a need to visualise temperature, making them a measuring instrument for many varied applications.



## 1. Detecting structural defects and ensuring construction quality

Inspection with a Testo thermal imager is a fast and efficient method of detecting possible structural defects. In addition, Testo thermal imagers are suitable as proof of the quality and the correct implementation of structural renovation measures. Heat loss, moisture and lack of airtightness in a building are visible in a thermal image. Faulty thermal insulation and structural damage are also detected – without contact.



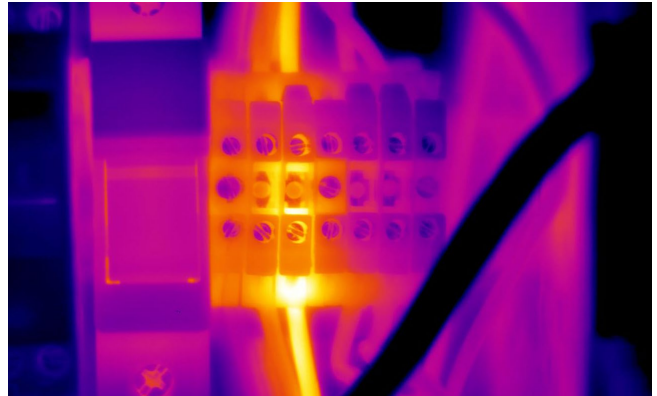
## 2. Carrying out detailed energy consultancy

In building thermography, infrared technology is ideally suited for the fast and effective analysis of energy losses in the heating or air conditioning of buildings. Thanks to their high temperature resolution, Testo thermal imagers provide detailed images of inadequate insulation and thermal bridges. They are ideal for the recording and documentation of energy losses on outer windows and doors, roller blind casings, radiator niches, in roof structures or the entire building shell. Testo thermal imagers are the perfect tool for comprehensive diagnosis and maintenance when providing energy consultation services.



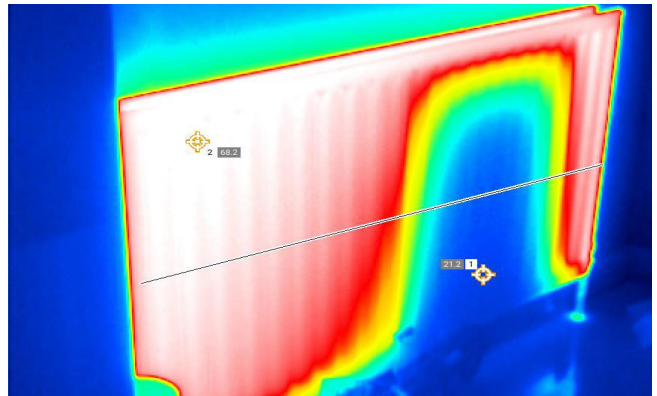
### 3. Electrical testing

Testo thermal imaging cameras allow a safe and effective evaluation of the heat status of low, medium, and high voltage electrical systems. Thermal imaging can lead to early diagnosis and recognition of defective components and connections, so that the required preventative steps can be taken. This minimises the potential risk of overheating and subsequent fires that can be initiated, and also avoids costly production downtime through preventative maintenance.



### 4. Easy checking of heating systems and installations

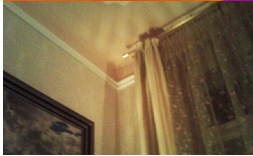
Testo thermal imagers can be used to quickly and reliably check heating, ventilation and air conditioning installations as they are easy and intuitive to operate. A glance with the thermal imager is enough to discover irregular temperature distribution. Silting and blockages in radiators, for example, are reliably detected.



### 5. Hot on the trail of a ruptured pipe

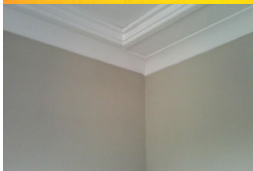
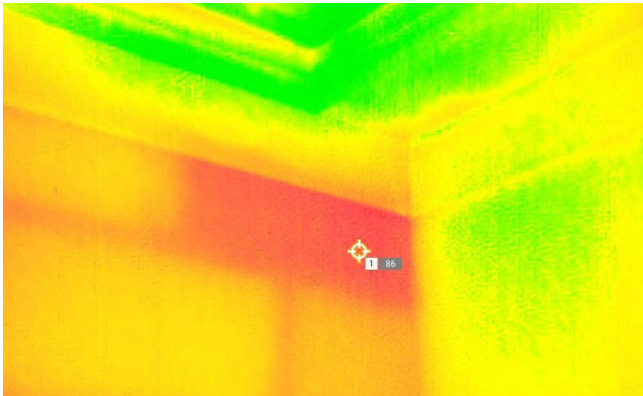
If a pipe rupture is suspected, often the only solution is to break open the entire wall or flooring area. With Testo thermal imagers, you can minimise the damage and reduce the cost of your work. Leakages in underfloor heating and other inaccessible pipes are located precisely and without damage. This avoids opening walls unnecessarily and considerably reduces the repair costs.





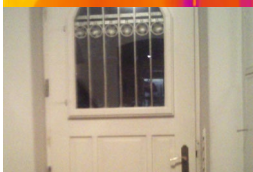
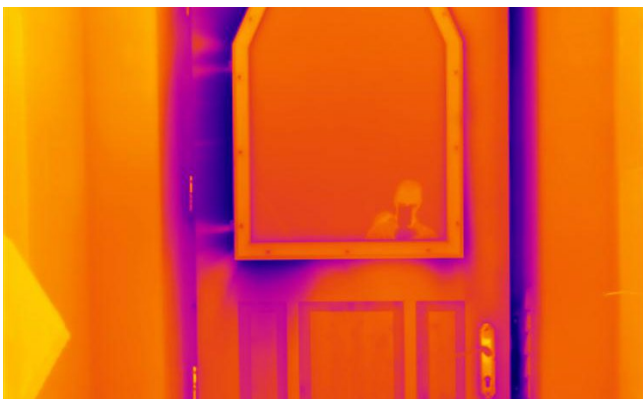
### 6. Investigating moisture damage

Not every damp wall is caused by a ruptured pipe. Rising damp or penetrating water due to the faulty implementation of rain and drain water flow-off can cause damp walls. Moisture damage can also occur due to blocked drains or insufficient seepage. Testo thermal imagers find the cause of rising damp or penetrating rainwater straight away, before the water causes major damage.



### 7. Preventing mould formation

Thermal bridges waste energy. Condensation can also form in these places due to humidity in the ambient air. As a result, mould forms in these locations with the associated health risks for the occupants. Testo thermal imagers use the externally determined ambient temperature and humidity as well as the measured surface temperature to calculate the relative surface moisture value for each measuring point. The mould risk is therefore visible on the display before it becomes visible to the naked eye: areas at risk are displayed in red, those not at risk in green. This makes it possible to introduce measures to prevent dangerous mould formation at an early stage - including in hidden corners and niches.



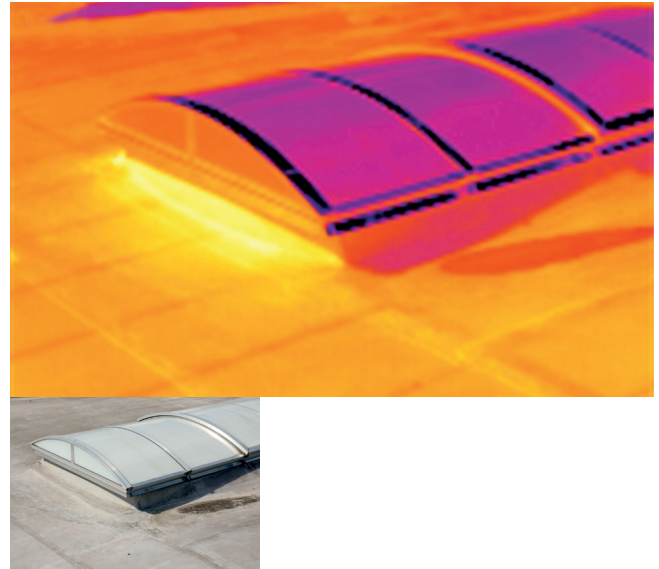
### 8. Testing the air tightness of new buildings

If doors or windows are not correctly fitted, in winter cold air can enter or warm indoor air can escape. This results in draughts, increased ventilation heat loss and above all high energy costs. The combination of thermography and BlowerDoor has proved its worth. This procedure involves creating a negative pressure in the building, so that cool outside air can flow into the interior of the building through leaky joints and cracks. The Testo thermal imager makes it easy to detect any leaks.



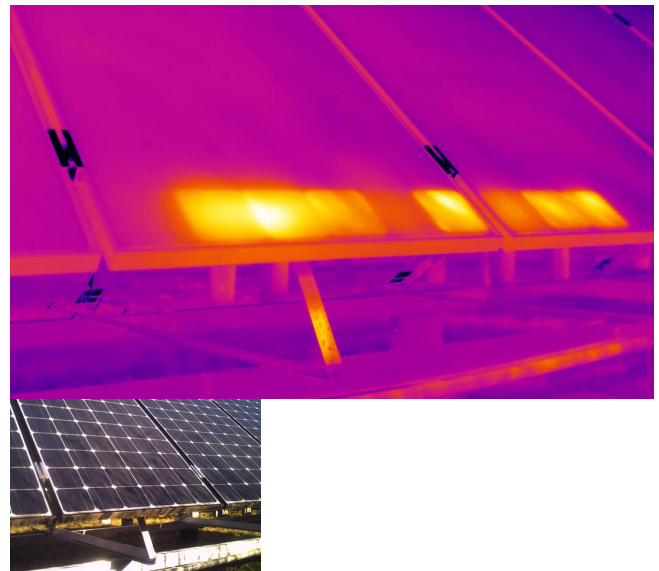
**9. Locate roof leaks exactly**

Damp areas in the roof structure, in particular in flat roofs, store the warmth from the sun for longer than intact areas. This means the roof structure cools unevenly in the evenings. Testo thermal imagers use these temperature differences to pinpoint the exact roof areas with trapped moisture or damaged sealing.



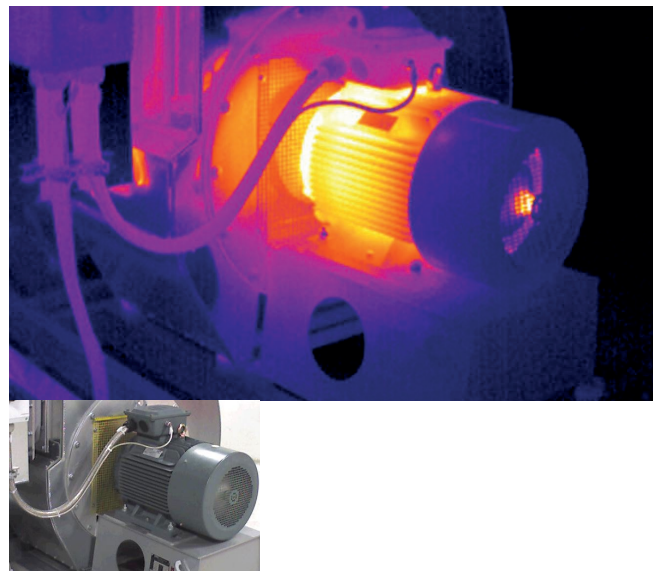
**10. Monitoring and checking solar energy systems**

There are two main reasons for inspecting solar energy systems: safety and performance monitoring. Solar energy systems achieve their top performance in full sunshine. Testo thermal imagers can be used to monitor photovoltaic systems of all sizes in a way that is wide-ranging, contact-free and exceptionally efficient. Malfunctions are detected, the proper functioning of all components is ensured and the greatest possible efficiency is thus achieved. The option of inputting solar radiation intensity, the key measurement parameter, offers extra reliability: the value entered is stored with the thermal image and is subsequently available for image analysis.



**11. Mechanical testing :**

With many mechanical systems a high level of heat emissions could be indicative of problems such as frictional wear or lack of lubrication. With the ability to work across a wide temperature range testo thermal imaging cameras can offer a fast non-contact route to diagnosis of such issues in a wide range of mechanical systems such as motors, gearboxes, bearings, conveyors, heat-sealing, and general process machinery. The ability to take images over a time period allows engineers to determine general wear cycles across operating machinery to then ensure correct preventative maintenance takes place.



# Fever detection and disease prevention using thermal imaging.

In times of increasing mobility, infections don't stop at national borders either. Whether ebola, SARS, swine flu or COVID-19: no-one wants to imagine the consequences of an epidemic or even a pandemic. That's why it's in the interest of public health to identify risk individuals in large groups of people early. The operators of heavily frequented facilities such as airports, shopping malls or sports stadiums carry a special responsibility for disease prevention.

## Why fever measurement with thermography?

An important indicator for an infection is increased body temperature (compared to other people in the immediate surroundings), generally known as fever.

Thermography is the ideal method for scanning not just individuals, but also large flows of people. To do this, the temperature at the inner corner of the eye is measured, and an alarm triggered if it deviates. This allows persons with increased body temperature to be identified quickly and reliably, and to be isolated for more exact testing.



## Why testo thermal imagers for fever measurement?

With the **testo FeverDetection assistant**, the testo 885 and testo 890 thermal imaging cameras are perfect for identifying potentially ill individuals:

- Reliable: up to 1280 x 960 pixels resolution (with testo SuperResolution) and good thermal sensitivity
- Flexible: thanks to an HDMI interface for data transfer to an external screen, they can also be used in semi-stationary applications such as security checks
- Easy: can be used by the most diverse staff, thanks to high level of user convenience

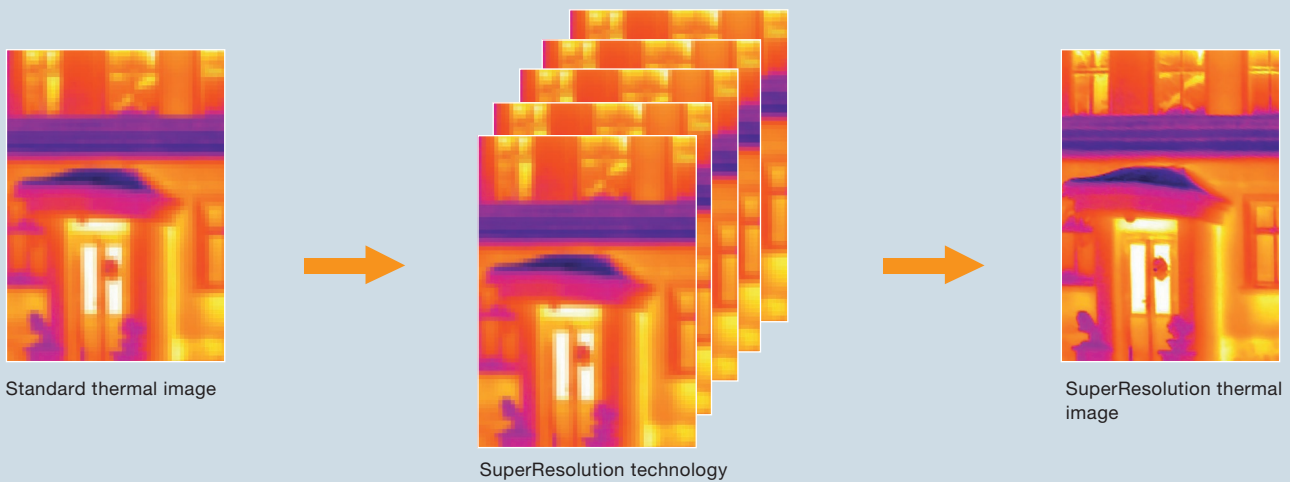


# Testo SuperResolution technology.

## High-resolution thermal images

Optimum thermography is simple: the better the image resolution and the more pixels, the more detailed and clearer the display of the measuring object will be. And high-resolution image quality is particularly essential if you are unable to get very close to the measuring object or

need to detect the finest structures. This is because the more you can detect in the thermal image, the better your analysis will be.



## Simply see more with SuperResolution

With the SuperResolution technology included in all Testo thermal imagers, the image quality of the Testo thermal imagers is improved by one class, i.e. by four times more pixels and a geometric resolution improved by a factor of 1.6. For example, 160 x 120 pixels turns into 320 x 240 pixels, or 640 x 480 pixels into 1280 x 960 pixels.

The innovation from Testo uses your natural hand movements and takes multiple, slightly offset images very rapidly one after another. Using an algorithm, these are then calculated to obtain an image. The result: Four times more pixels and a considerably better geometric resolution of the

thermal image. The SuperResolution technology thus delivers high-resolution thermal images. In the case of the thermal imagers testo 865, testo 868, testo 871 and testo 872, the SuperResolution thermal images can be viewed directly in the imager and in the Thermography App.



# PC software **IRSoft.**

IRSoft – the high-performance PC software for professional thermography analysis from Testo. IRSoft enables thermograms to be analysed comprehensively on a PC. It is characterised by its clear structure and excellent user-friendliness. All analysis functions are explained using easily comprehensible symbols. Tool tips additionally provide explanations of each function by mouseover. This assistance simplifies image processing and allows intuitive operation. A fully functional version of the PC software IRSoft is included with all Testo thermal imagers.

### **IRSoft – precise analysis of thermal images**

IRSoft enables users to conveniently process and analyse infrared images on a PC. Extensive functions are available for professional image analysis. For example, the different emission levels of various materials can be corrected afterwards for image areas, right up to individual pixels. The histogram function shows the temperature distribution of an image area. Up to five profile lines can be used to analyse the temperature curves. In order to visualise critical temperatures in an image, limit value violations as well as pixels in a specific temperature range can be emphasised. In addition, unlimited measurement points can be set, hot/cold spots determined and comments on the analysis made.

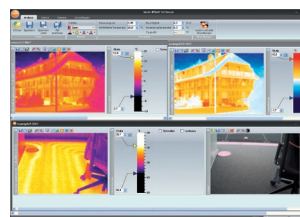
### **IRSoft – everything important at a glance**

Several infrared images can be opened and analysed in parallel. All analyses in the images are visible at a glance and can be compared. Settings can be adjusted for either the entire infrared image or individual image sections. It is also possible to transfer current image corrections to all open infrared images with a mouse click.

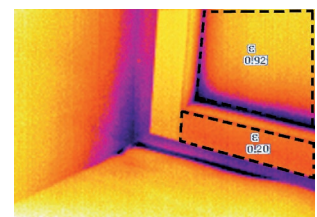
### **Easy creation of professional thermography reports**

Infrared and real images are displayed in the screen during the analysis and automatically transferred into the report. This makes it possible to simply and professionally document the measurement results.

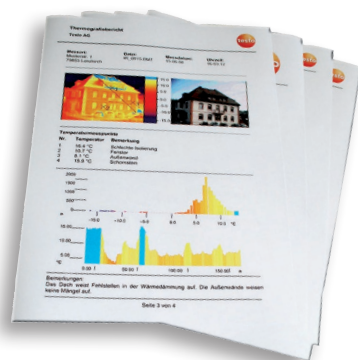
The report assistant guides you step by step to a complete and clear report. Different templates are available for both short, quick reports and more comprehensive documentation. The templates contain all the relevant information on the measuring location, measuring task and inspection results. In addition, the report designer can be used to create user-defined templates for individual reports.



Simultaneous evaluation and comparison of several images



Change the emissivity of certain areas, for precise temperature analysis



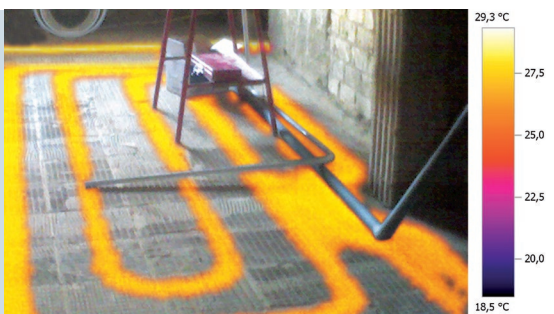
Multi-page reports for complete documentation

### **With IRSoft from Testo:**

- analyse thermal images precisely
- create professional thermography reports quickly and easily
- analyse and compare several images simultaneously

# TwinPix – thermal and real images in one.

Testo thermal imagers with an integrated digital camera automatically store both an infrared and a real image. With the professional image overlay TwinPix, these two images can be overlaid in the PC software IRSofT. The information from the thermal image and the real image is then jointly displayed in a single image.



See hidden pipelines even in the real image, with TwinPix



Function of the PC software: Image overlay TwinPix



## Straight to the perfect result with Testo TwinPix

By setting marking points which correspond in the thermal and the real image, the images are overlaid exactly. Even scenes with measurement objects at different distances can be blended without a problem, and shown simultaneously in one image.

## Show what's important with the professional image overlay from Testo

During the analysis, the image overlay helps with the orientation in the image and with the exact localisation of the damage location. Setting the transparency level allows regulation of the intensity of the infrared or the real image component in the overlay. Critical temperature ranges can be marked by inserting infrared limit values and the infrared range. Even in the real image, problem areas can be directly emphasised, and the temperature status of the measurement object displayed plastically. The overlaid image is taken over into the report for documentation purposes.



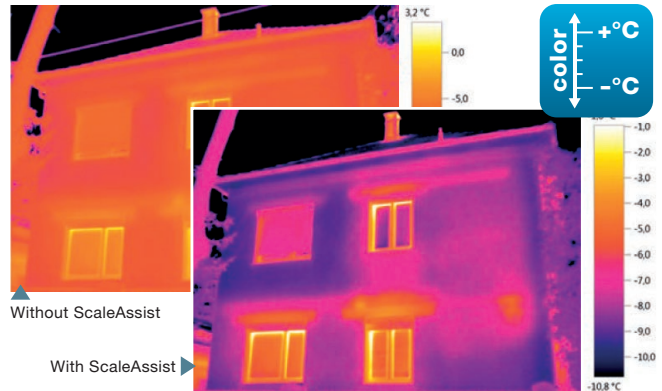
# Overview of Testo thermal imaging cameras.

| Features   | testo 865             | testo 868                      | testo 871                      | testo 872                      | testo 875-1i                   | testo 875-2i                     | testo 882                      |
|--|-----------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|----------------------------------|--------------------------------|
| Infrared resolution (pixels)   | 160 x 120             | 160 x 120                      | 240 x 180                      | 320 x 240                      | 160 x 120                      | 160 x 120                        | 320 x 240                      |
| SuperResolution technology (in pixels)   | to 320 x 240          | to 320 x 240                   | to 480 x 360                   | to 640 x 480                   | to 320 x 240                   | to 320 x 240                     | to 640 x 480                   |
| Thermal sensitivity (NETD)   | 120 mK                | 100 mK                         | < 90 mK                        | < 60 mK                        | < 50 mK                        | < 50 mK                          | < 50 mK                        |
| Measuring range  | -20 to +280 °C        | -30 to +100 °C<br>0 to +650 °C | -30 to +100 °C<br>0 to +650 °C | -30 to +100 °C<br>0 to +650 °C | -30 to +350 °C                 | -30 to +350 °C                   | -20 to +350 °C                 |
| Image refresh rate   | 9 Hz                  | 9 Hz                           | 9 Hz                           | 9 Hz                           | 33 Hz                          | 33 Hz                            | 33 Hz                          |
| Standard lens: FOV<br>IFOV <sub>geo</sub> / IFOV <sub>geo-SR</sub>   | 31° x 23°<br>3.4 mrad | 31° x 23°<br>3.4 mrad          | 35° x 26°<br>2.6 mrad          | 42° x 30°<br>1.3 mrad          | 32° x 23°<br>3.3 / 2.1<br>mrad | 32° x 23°<br>3.3 / 2.1<br>mrad   | 32° x 23°<br>1.7 / 1.1<br>mrad |
| Exchangeable telephoto lens:<br>FOV IFOV <sub>geo</sub> / IFOV <sub>geo-SR</sub><br>Exchangeable super telephoto<br>lens: IFOV <sub>geo</sub> / IFOV <sub>geo-SR</sub> | -                     | -                              | -                              | -                              | -                              | (9° x 7°)<br>(1.0 / 0.6<br>mrad) | -                              |
| Focusing   | Fixed focus           | Fixed focus                    | Fixed focus                    | Fixed focus                    | Manual                         | Manual                           | Manual /<br>motor              |
| High temperature<br>measurement  | ✓                     | ✓                              | ✓                              | ✓                              | -                              | up to 550 °C                     | up to 550 °C                   |
| Centre point measurement   | ✓                     | ✓                              | ✓                              | ✓                              | ✓                              | ✓                                | ✓                              |
| Auto Hot/Cold Spot<br>Recognition  | ✓                     | ✓                              | ✓                              | ✓                              | ✓                              | ✓                                | ✓                              |
| Min/max on area calculation  | -                     | -                              | -                              | ✓                              | -                              | ✓                                | ✓                              |
| Isotherm functions   | -                     | -                              | -                              | -                              | -                              | ✓                                | ✓                              |
| Alarm value function   | -                     | -                              | -                              | -                              | -                              | -                                | -                              |
| Display of surface moisture<br>distribution via manual input   | -                     | -                              | ✓                              | ✓                              | -                              | ✓                                | ✓                              |
| Humidity measurement with<br>wireless humidity probe   | -                     | -                              | ✓                              | ✓                              | -                              | ✓                                | ✓                              |
| Solar mode   | -                     | -                              | ✓                              | ✓                              | ✓                              | ✓                                | ✓                              |
| Voice recording  | -                     | -                              | -                              | -                              | -                              | ✓                                | ✓                              |
| Save JPEG function   | ✓                     | ✓                              | ✓                              | ✓                              | -                              | -                                | -                              |
| Integrated digital camera  | -                     | ✓                              | ✓                              | ✓                              | 640 x 480<br>pixels            | 640 x 480<br>pixels              | 640 x 480<br>pixels            |
| Integrated power LEDs  | -                     | -                              | -                              | -                              | -                              | ✓                                | ✓                              |
| Laser  | -                     | -                              | -                              | Laser marker                   | Laser pointer                  | Laser pointer                    | Laser pointer                  |
| IFOV warner  | ✓                     | ✓                              | ✓                              | ✓                              | -                              | -                                | -                              |
| testo Thermography App   | -                     | ✓                              | ✓                              | ✓                              | -                              | -                                | -                              |
| testo ScaleAssist  | ✓                     | ✓                              | ✓                              | ✓                              | -                              | -                                | -                              |
| testo ε-Assist   | -                     | ✓                              | ✓                              | ✓                              | -                              | -                                | -                              |

# Functions of the testo 865, 868, 871 and 872 thermal imaging cameras.

## testo ScaleAssist: Comparable thermal images

With testo ScaleAssist, the correct evaluation of construction errors and thermal bridges is easier than ever before, since the thermal image scale is automatically and optimally set. This prevents interpretation errors which can be caused by a false setting of the scaling. Undesired extreme temperatures are automatically filtered out, and building faults realistically presented. This makes infrared images comparable in spite of altered ambient conditions. This is of great significance in before-and-after images, for example.



## testo ε-Assist: Set emissivity automatically

For precise thermal images, it is important to set the emissivity ( $\epsilon$ ) and the reflected temperature (RTC) of the object in the imager. Up to now, this has been time-consuming and may be inaccurate. This changes with testo  $\epsilon$ -Assist: Simply attach one of the reference stickers ( $\epsilon$ -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.



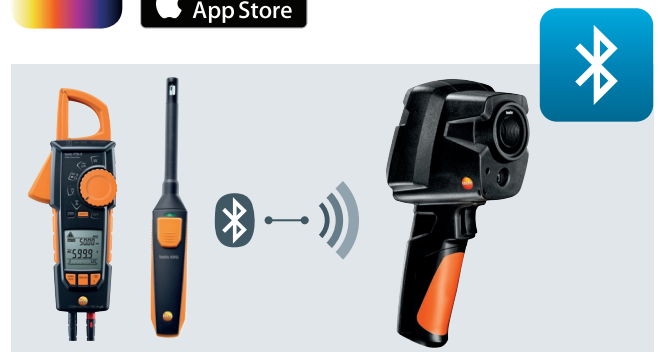
## testo Thermography App for analysis and reporting

With the free testo Thermography App, available for iOS and Android, compact reports can be made quickly, saved online and sent by e-mail. Apart from this, the App offers useful tools for fast analysis on site – for example, when 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 use your smartphone/tablet as a second display or as a remote control.



## Connectivity with testo 605i and testo 770-3

The testo 871 and 872 thermal imaging cameras can be connected wirelessly to the thermohygrometer testo 605i and the clamp probe testo 770-3. 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.



# testo 865 thermal imaging camera

The testo 865 thermal imager is the ideal entry into the world of thermography. It stands out thanks to the best image quality in its class and handy operation, is robust enough to withstand tough daily use, and has useful functions for even better thermal images.

All this at a ground-breaking price-performance ratio. Switch on, aim, know more.



160 x 120 pixel resolution  
(with testo SuperResolution (320 x 240 pixels))



120 mK thermal sensitivity



31° x 23° field of view lens



Hot spot /cold spot recognition



## Applications

- General testing of heating systems
- Preventative industrial maintenance

## testo 865

Thermal imager testo 865 with integrated testo SuperResolution, USB cable, mains unit, Lithium ion rechargeable battery, pro software, quick-start guide, short instructions, calibration certificate and case

Order no. 0560 8650

£699.00





## Technical data

| Infrared image output                           |   |
|---|---|
| Infrared resolution                             | 160 x 120 pixels  |
| Thermal sensitivity (NETD)                      | 120 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<br>2.1 mrad                                |
| Image refresh rate                              | 9 Hz  |
| Focus   | Fixed focus   |
| Spectral range                                  | 7.5 to 14 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                                 | included  |
| Measurement                                     |   |
| Measuring range                                 | -20 to +280 °C  |
| Accuracy  | ±2 °C, ±2 % of measured value                               |
| Emissivity / reflected temperature compensation | 0.01 to 1 / manual  |
| Measurement functions                           |   |
| Analysis functions                              | Mean point measurement, hot/cold-spot recognition, Delta T, |
| testo ScaleAssist                               | included  |
| IFOV warner                                     | included  |

| Imager equipment                     |   |
|--------------------------------------|---|
| Lens                                 | 31° x 23°   |
| Video streaming                      | via USB   |
| Storage as JPG                       | included  |
| Fullscreen mode                      | included  |
| 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                      | included  |
| 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, Windows 7                              |
| Standards, tests                     |   |
| EU directive                         | 2014/30/EU  |

| Accessories  | Order no. |        |
|--|-----------|--------|
| Spare battery, additional Lithium ion rechargeable battery for extending the operating time. | 0515 5107 | £21.49 |
| Battery charger, desktop charging station for optimising the charge time.                    | 0554 1103 | £34.90 |
| Holster case   | 0554 7808 | £41.90 |

# testo 868 thermal imaging camera

Thermography connected – with the testo 868 thermal imaging camera. It has the best thermal image quality in its class, an integrated digital camera, and stands out thanks to smart new features. The testo Thermography App wirelessly integrates measurement values, turning your smartphone or tablet into a second display. In addition to this, you can operate the imager with the App as well as creating and sending reports on site.



160 x 120 pixel resolution  
(with testo SuperResolution 320 x 240 pixels)



100 mK thermal sensitivity



31° x 23° field of view lens



Hot spot /cold spot recognition



Free App connection via WiFi

## Applications

- Testing of heating systems
- Preventative industrial maintenance

## testo 868

Thermal imager testo 868 with wireless module BT/wireless LAN, USB cable, mains unit, Lithium ion rechargeable battery, pro software, 3 x e-markers, quick-start guide, short instructions, calibration certificate and case

Order no. 0560 8681

£1,099.00




# Technical data

| Infrared image output                           |   |
|---|---|
| Infrared resolution                             | 160 x 120 pixels  |
| Thermal sensitivity (NETD)                      | 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<br>2.1 mrad  |
| Image refresh rate                              | 9 Hz  |
| Focus   | Fixed focus   |
| Spectral range                                  | 7.5 to 14 µm  |
| Visual image output                             |   |
| Image size / min. focusing distance             | at least 3.1 MP / 0.5 m   |
| Image presentation                              |   |
| Image display                                   | 8.9 cm (3.5") TFT, QVGA (320 x 240 pixels)  |
| Display options                                 | IR image / real image   |
| Colour palettes                                 | iron, rainbow HC, cold-hot, grey  |
| Data interfaces                                 |   |
| WLAN Connectivity                               | Communication with the testo Thermography App wireless module BT/WLAN (EU, EFTA, USA, AUS, CDN, TR) |
| USB 2.0 Micro B                                 | included  |
| Measurement                                     |   |
| Measuring ranges                                | Measuring range 1: -30 to +100 °C<br>Measuring range 2: 0 to +650 °C                                |
| Accuracy  | ±2 °C, ±2 % of measured value   |
| Emissivity / reflected temperature compensation | 0.01 to 1 / manual  |
| testo ε-Assist                                  | Automatic recognition of emissivity and determination of reflected temperature (RTC)                |
| Measurement functions                           |   |
| Analysis functions                              | Mean point measurement, hot/cold-spot recognition, Delta T,   |
| testo ScaleAssist                               | included  |
| IFOV warner                                     | included  |
| Imager equipment                                |   |
| Digital camera                                  | 4   |
| Lens  | 31° x 23°   |
| Video streaming                                 | via USB, via wireless LAN with testo Thermography App   |
| Storage as JPG                                  | 4   |
| Fullscreen mode                                 | 4   |


| 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                      | included  |
| 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, Windows 7                              |
| Standards, tests, warranty           |   |
| EU directive                         | EMC: 2014/30/EU<br>RED: 2014/53/EU                            |
| Warranty                             | 2 years   |



| Accessories  | Order no. |        |
|--|-----------|--------|
| Spare battery, additional Lithium ion rechargeable battery for extending the operating time. | 0515 5107 | £21.49 |
| Battery charger, desktop charging station for optimising the charge time.                    | 0554 1103 | £34.90 |
| Pack of 10 x testo ε-markers for use with ε-Assist function (868/871/872 only)               | 0554 0872 | £21.90 |
| Holster case   | 0554 7808 | £41.90 |



**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.





# testo 871 thermal imaging camera

The testo 871 thermal imager offers a high-quality 240 x 180 pixel detector, connectivity via the testo Thermography App, as well as the innovative functions testo ScaleAssist and testo ε-Assist, which enables objectively comparable and error-free thermal images to be recorded. For even more meaningful thermal images, the testo 871 thermal imager also integrates the measurement values of the clamp probe testo 770-3 as well as the thermohygrometer testo 605i via a Bluetooth connection (both available as an option).



**240 x 180** / **480 x 360**  
240 x 180 pixel resolution (with testo SuperResolution 480 x 360 pixels)

**-10.2 °C** / **+82.4 °C**  
Hot spot / cold spot recognition

**NETD**  
**< 90 mK**  
90 mK thermal sensitivity

**App**  
Free App connection via WiFi

**35x26°**  
35° x 26° field of view lens

**Bluetooth**  
Bluetooth connectivity to testo 770-3 / testo 605i

**Laser marker**

## Applications

- Electrical thermography
- Buildings thermography
- Preventative industrial maintenance

## testo 871

Thermal imager testo 871 with wireless module BT/wireless LAN, USB cable, mains unit, Lithium ion rechargeable battery, pro software, 3 x ε-markers, quick-start guide, short instructions, calibration certificate and case

Order no. 0560 8712

£1,590.00



### 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

|   | Order no. | Price   |
|---|-----------|---------|
| <b>testo 605i thermohygrometer</b><br>• Measurement of air humidity and air temperature to identify mould risk<br>• Transmission of measurement values to the testo 871 via Bluetooth                       | 0560 1605 | £75.00  |
| <b>testo 770-3 clamp meter</b><br>including batteries and measuring cables<br>• Auto AC/DC and large two-line display<br>• Transmission of measurement values to the testo 871 thermal imager via Bluetooth | 0590 7703 | £149.00 |

# Technical data

| Infrared image output   |   |
|---|---|
| Infrared resolution   | 240 x 180 pixels  |
| Thermal sensitivity (NETD)  | 90 mK   |
| Field of view/min. focusing distance                                  | 35° x 26° / < 0.5 m   |
| Geometric resolution (IFOV)   | 2.6 mrad  |
| testo SuperResolution (Pixel/IFOV)                                    | 480 x 360 pixels<br>1.6 mrad  |
| Image refresh rate  | 9 Hz  |
| Focus   | Fixed focus   |
| Spectral range  | 7.5 to 14 µm  |
| Visual image output   |   |
| Image size / min. focusing distance                                   | at least 3.1 MP / 0.5 m   |
| Image presentation  |   |
| Image display   | 8.9 cm (3.5") TFT, QVGA (320 x 240 pixels)  |
| Display options   | IR image / real image   |
| Colour palettes   | iron, rainbow HC, cold-hot, grey  |
| Data interfaces   |   |
| WLAN Connectivity   | Communication with the testo Thermography App   |
| Bluetooth <sup>1)</sup>   | Measurement value transfer from thermohygrometer testo 605i, clamp meter testo 770-3 (optional)                           |
| USB 2.0 Micro B   | included  |
| Measurement   |   |
| Measuring ranges  | Measuring range 1: -30 to +100 °C<br>Measuring range 2: 0 to +650 °C  |
| Accuracy  | ±2 °C, ±2 % of measured value   |
| Emissivity / reflected temperature compensation                       | 0.01 to 1 / manual  |
| testo ε-Assist  | Automatic recognition of emissivity and determination of reflected temperature (RTC)                                      |
| Measurement functions   |   |
| Analysis functions  | Mean point measurement, hot/cold-spot recognition, Delta T,   |
| testo ScaleAssist   | included  |
| IFOV warner   | included  |
| Humidity mode – manual  | included  |
| Humidity measurement with humidity measuring instrument <sup>1)</sup> | Automatic measurement value transfer of thermohygrometer testo 605i via Bluetooth (instrument must be ordered separately) |
| Solar mode – manual   | Input of solar radiation value  |
| Electrical mode – manual  | Input of current, voltage or power  |
| Electrical measurement with clamp meter <sup>1)</sup>                 | Automatic measurement value transfer of clamp meter testo 770-3 via Bluetooth (instrument must be ordered separately)     |


| Imager equipment                     |   |
|--------------------------------------|---|
| Digital camera                       | included  |
| Lens                                 | 35° x 26°   |
| Video streaming                      | via USB, via wireless LAN with testo Thermography App         |
| Storage as JPG                       | included  |
| Fullscreen mode                      | included  |
| 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                      | included  |
| 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, Windows 7                              |
| Standards, tests, warranty           |   |
| EU directive                         | EMC: 2014/30/EU<br>RED: 2014/53/EU                            |
| Warranty                             | 2 years   |


<sup>1)</sup> Wireless permit in EU, EFTA, USA, Canada, Australia, Turkey


| Accessories  | Order no. |        |
|--|-----------|--------|
| Spare battery, additional Lithium ion rechargeable battery for extending the operating time. | 0515 5107 | £21.49 |
| Battery charger, desktop charging station for optimising the charge time.                    | 0554 1103 | £34.90 |
| Pack of 10 x testo ε-markers for use with ε-Assist function (868/871/872 only)               | 0554 0872 | £21.90 |
| Holster case   | 0554 7808 | £41.90 |


# testo 872 thermal imager building inspection kit (with free testo 605i Smart Probe)


The testo 872 thermal imager stands out thanks to its resolution of 320 x 240 pixels, an excellent thermal sensitivity of 60mK, numerous innovative functions, smartphone connection via the testo Thermography App and the best price-performance ratio of its class. The new testo 872 building inspection kit also includes a testo 605i Bluetooth Smart Probe which measures air temperature and humidity - in combination, the instruments can be used to reliably and accurately visualise mould risk.


- 


320 x 240 pixel resolution (with testo SuperResolution 640 x 480 pixels)
- 

Hot spot / cold spot recognition / delta-T
- 

60 mK thermal sensitivity
- 

Free App connection via WiFi
- 

42° x 30° field of view lens
- 

Bluetooth connectivity to free testo 605i and testo 750-3 (optional extra)
- 

Laser marker



### Applications

- Visualisation of mould risk
- Detection of structural defects and construction quality
- Building / energy surveys
- Preventative industrial maintenance

## testo 872 thermal imager building inspection kit

Thermal imager testo 872 with wireless module BT/wireless LAN, testo 605i Smart Probe thermohygrometer, USB cable, mains unit, Lithium ion rechargeable battery, pro software, 3 x ε-markers, quick-start guide, short instructions, calibration certificate and case

Order no. 0560 8724

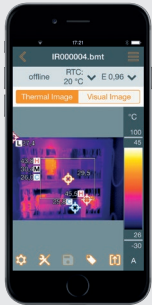
£1,990.00

**NEW FOR 2020**

testo 872 now with free testo 605i










### 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 instrument

#### testo 770-3 clamp meter

- Auto AC/DC and large two-line display
- Transmission of measurement values to the testo 871 thermal imager via Bluetooth
- Additional output, current and voltage values enable better interpretation of measured temperatures
- Includes battery and measuring cables

| Order no. | Price   |
|-----------|---------|
| 0590 7703 | £149.00 |





# Technical data

| Infrared image output   |   |
|---|---|
| Infrared resolution   | 320 x 240 pixels  |
| Thermal sensitivity (NETD)  | 60 mK   |
| Field of view/min. focusing distance                                  | 42° x 30° / < 0.5 m   |
| Geometric resolution (IFOV)   | 2.3 mrad  |
| testo SuperResolution (pixels/IFOV)                                   | 640 x 480 pixels<br>1.3 mrad  |
| Image refresh rate  | 9 Hz  |
| Focus   | Fixed focus   |
| Spectral range  | 7.5 to 14 µm  |
| Visual image output   |   |
| Image size / min. focusing distance                                   | at least 3.1 MP / 0.5 m   |
| Image presentation  |   |
| Image display   | 8.9 cm (3.5") TFT, QVGA (320 x 240 pixels)  |
| Digital zoom  | 2x, 4x  |
| Display options   | IR image / real image   |
| Colour palettes   | iron, rainbow, rainbow HC, cold-hot, blue-red, grey, inverted grey, sepia, Testo, iron HT                             |
| Data interfaces   |   |
| WLAN Connectivity   | Communication with the testo Thermography App   |
| Bluetooth <sup>1)</sup>   | Measurement value transfer from thermohygrometer testo 605i, clamp meter testo 770-3 (optional)                       |
| USB 2.0 Micro B   | included  |
| Measurement   |   |
| Measuring ranges  | Measuring range 1: -30 to +100 °C<br>Measuring range 2: 0 to +650 °C  |
| Accuracy  | ±2 °C, ±2 % of measured value   |
| Emissivity / reflected temperature compensation                       | 0.01 to 1 / manual  |
| testo ε-Assist  | Automatic recognition of emissivity and determination of reflected temperature (RTC)                                  |
| Measurement functions   |   |
| Analysis functions  | Mean point measurement, hot/cold-spot recognition, Delta T, area measurement (min-max on area)                        |
| testo ScaleAssist   | included  |
| IFOV warner   | included  |
| Humidity mode – manual  | included  |
| Humidity measurement with humidity measuring instrument <sup>1)</sup> | Automatic measurement value transfer of thermohygrometer testo 605i via Bluetooth (instrument included)               |
| Solar mode – manual   | Input of solar radiation value  |
| Electrical mode – manual  | Input of current, voltage or power  |
| Electrical measurement with clamp meter <sup>1)</sup>                 | Automatic measurement value transfer of clamp meter testo 770-3 via Bluetooth (instrument must be ordered separately) |

| Imager equipment                     |   |
|--------------------------------------|---|
| Digital camera                       | included  |
| Lens                                 | 42° x 30°   |
| Laser <sup>2)</sup>                  | Laser class 2   |
| Video streaming                      | via USB, via wireless LAN with testo Thermography App         |
| Storage as JPG                       | included  |
| Fullscreen mode                      | included  |
| 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                      | included  |
| Ambient conditions                   |   |
| Operating temperature                | -15 to +50 °C   |
| Storage temperature                  | -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, Windows 7                              |
| Standards, tests, warranty           |   |
| EU directive                         | EMC: 2014/30/EU<br>RED: 2014/53/EU                            |
| Warranty                             | 2 years   |

<sup>1)</sup> Wireless permit in EU, EFTA, USA, Canada, Australia, Turkey  
<sup>2)</sup> excepting USA, China and Japan

| Accessories  | Order no. |        |
|--|-----------|--------|
| Spare battery, additional Lithium ion rechargeable battery for extending the operating time. | 0515 5107 | £21.49 |
| Battery charger, desktop charging station for optimising the charge time.                    | 0554 1103 | £34.90 |
| Pack of 10 x testo ε-markers for use with ε-Assist function (868/871/872 only)               | 0554 0872 | £21.90 |
| Holster case   | 0554 7808 | £41.90 |

# testo 875-1i and 875-2i thermal imaging cameras

With the testo 875i thermal imager range you can carry out professional non-contact testing on many applications. This allows you to reveal problems within buildings, industrial maintenance and production monitoring before a malfunction occurs or fire risks develop. For good measure, you can create a real image in parallel to the thermal image thanks to the built-in digital camera. This makes documentation and assignment easier for you. With the excellent thermal sensitivity of <math>< 50\text{ mK}</math>, you can track down even small temperature differences.

The testo 875-2i adds to the already comprehensive features of the 875-1i by adding the option for interchangeable lenses, headset to allow voice annotation with images and also introduces surface humidity risk analysis function to help buildings engineers determine if rooms are at risk from build-up of condensation and mould.



160 x 120 pixel resolution  
(with testo SuperResolution  
320 x 240 pixels)



Laser marker



50 mK thermal sensitivity



Video streaming via USB to PC



32° x 23° field of view lens



Surface moisture mode (testo 875-2i only)



Optional telephoto lens  
(supplied in testo 875-2i kit)

## Applications

- Electrical thermography
- Buildings thermography
- Preventative industrial maintenance

### testo 875-1i

Thermal imager testo 875-1i with integrated testo SuperResolution and digital camera, in a robust case, including professional software, soft case, carrying strap, SD card, USB cable, lens cleaning cloth, mains unit, rechargeable Li-ion battery and tripod adapter

Part no. 0563 0875 V1

£1,790.00



### testo 875-2i set

Thermal imager testo 875-2i set with integrated testo SuperResolution and digital camera, in a robust case, including professional software, soft case, carrying strap, SD card, USB cable, lens cleaning cloth, mains unit, rechargeable Li-ion battery, tripod adapter, headset, 9° x 7° telephoto lens, lens protector, spare rechargeable battery and fast battery charger

Part no. 0563 0875 V3

£3,250.00



### testo 875-2i

Thermal imager testo 875-2i with integrated testo SuperResolution and digital camera, in a robust case including professional software, soft case, carrying strap, SD card, USB cable, lens cleaning cloth, mains unit, rechargeable Li-ion battery, tripod adapter and headset

Part no. 0563 0875 V2

£2,490.00



# Technical data

|  | testo 875-1i   | testo 875-2i  |
|--|--|---|
| <b>Infrared image output</b>   |  |   |
| Infrared resolution  | 160 x 120 pixels   |   |
| Thermal sensitivity (NETD)   | < 50 mK at +30 °C  |   |
| Field of view/min. focus distance  | 32° x 23° / 0.1 m (Standard lens)  | 32° x 23° / 0.1 m (Tele: 9° x 7° / 0.5 m)   |
| Geometric resolution (IFOV)  | 3.3 mrad (Standard lens)   | 3.3 mrad (Tele: 1.0 mrad)   |
| SuperResolution (pixel / IFOV)   | 320 x 240 pixels / 2.1 mrad (Standard lens)  | 320 x 240 pixels / 2.1 mrad (Tele: 0.6 mrad)  |
| Image refresh rate   | 33 Hz*   |   |
| Focus  | manual   |   |
| Spectral range   | 7.5 to 14 µm   |   |
| <b>Image output visual</b>   |  |   |
| Image size / min. focus distance   | 640 x 480 pixels / 0.4 m   |   |
| <b>Image presentation</b>  |  |   |
| Image display  | 3.5" LCD with 320 x 240 pixels   |   |
| Display options  | IR image only / real image only / IR and real image  |   |
| Video output   | USB 2.0  |   |
| Colour palettes  | 10 (iron, rainbow, rainbow HC, cold-hot, blue-red, grey, inverted grey, sepia, Testo, iron HT) |   |
| <b>Measurement</b>   |  |   |
| Measuring range  | -30 to +100°C / 0 to +350 °C (switchable)  |   |
| Accuracy   | ±2 °C, ±2 % of m.v. (±3 °C of m.v. at -30 to -22 °C)   |   |
| High temperature measurement – optional  | –  | +350 to +550 °C   |
| Accuracy   |  | ±3 % of m.v. at +350 to +550 °C   |
| Emissivity / reflected temperature   | 0.01 to 1 / manual   |   |
| <b>Measuring functions</b>   |  |   |
| Display of surface moisture distribution (using manual input)  | –  | ✓   |
| Humidity measurement with radio humidity probe (automatic measurement value transfer in real time)** | –  | (✓)   |
| Solar mode   | ✓  |   |
| Analysis function  | up to 2 measurement points, Hot/Cold Spot Recognition  | up to 2 measurement points, Hot/Cold Spot Recognition, Isotherms, Area measurement (Min-/Max on Area) |

\* inside the EU, outside 9 Hz

\*\* Wireless humidity probes only in the EU, Norway, Switzerland, USA, Canada, Colombia, Turkey, Brazil, Chile, Mexico, New Zealand, Indonesia

\*\*\* excepting USA, China and Japan

|   | testo 875-1i   | testo 875-2i  |
|---|--|---------------|
| <b>Imager equipment</b>                         |  |               |
| Digital camera                                  |  | ✓             |
| Power LEDs                                      | –  | ✓             |
| Standard lens                                   | 32° x 23°  |               |
| Exchangeable lenses - optional                  | –  | 9° x 7°       |
| Laser (laser classification 635 nm, Class 2)*** |  | ✓             |
| Voice recording                                 | –  | wired headset |
| Video streaming (via USB)                       |  | ✓             |
| <b>Image storage</b>                            |  |               |
| File format                                     | .bmt; export option in .bmp, .jpg, .png, .csv, .xls  |               |
| Storage device                                  | SD card 2GB (approx. 2.000 images)   |               |
| <b>Power supply</b>                             |  |               |
| Battery type                                    | Fast-charging, Li-ion battery can be changed on-site   |               |
| Operating time                                  | 4 hours  |               |
| Charging options                                | In instrument/in charging station (optional)   |               |
| Mains operation                                 | yes  |               |
| <b>Ambient conditions</b>                       |  |               |
| Operating temperature range                     | -15 to +40 °C  |               |
| Storage temperature range                       | -30 to +60 °C  |               |
| Air humidity                                    | 20 to 80 % RH non-condensing   |               |
| Housing protection class (IEC 60529)            | IP54   |               |
| Vibration (IEC 60068-2-6)                       | 2G   |               |
| <b>Physical specifications</b>                  |  |               |
| Weight  | Approx. 900 g  |               |
| Dimensions (L x W x H) in mm                    | 152 x 108 x 262  |               |
| Tripod mounting                                 | M6   |               |
| Housing   | ABS  |               |
| <b>PC software</b>                              |  |               |
| System requirements                             | Windows XP (Service Pack 3), Windows Vista, Windows 7 (Service Pack 1), Windows 8, interface USB 2.0 |               |
| <b>Standards, tests</b>                         |  |               |
| EU Directive                                    | 2004 / 108 / EC  |               |

✓ included in delivery

(✓) optional

– not available

# testo 882 thermal imaging camera

Crisp, clear thermal images taken from a wide angle; parallel digital real images of the same measuring object with manual or motor-driven focusing. The Testo 882 thermal imaging camera gives you this and much, much more. In fact, it gives you everything you need to take, document and analyse the thermal images of the object you have measured.

Quality control in the building sector and water damage restoration, maintenance of mechanical and electrical installations, precise high-temperature measurements, prevention of mold, energy advice. The Testo 882 infrared camera has all the features you need to carry out a wide range of different thermal imaging tasks.



320 x 240 pixel resolution (with testo SuperResolution 640 x 480 pixels)



Laser marker



50 mK thermal sensitivity



Video streaming via USB to PC



32° x 23° field of view lens



Surface moisture mode



Motorised / manual focus

## Applications

- Electrical thermography
- Buildings thermography
- Preventative industrial maintenance

## testo 882

Thermal imager testo 882 with integrated testo SuperResolution, in a robust case incl. pro software, Soft Case, carrying strap, SD card, USB cable, mains unit, Li ion rechargeable battery, tripod adapter, lens cleaning cloth, headset

Part no. 0560 0882

£2,990.00





# Technical data

|  |   |
|--|---|
| <b>Infrared image output</b>   |   |
| Infrared resolution  | 320 x 240 pixels  |
| Thermal sensitivity (NETD)   | < 50 mK at +30 °C   |
| Field of view/min. focus distance  | 32° x 23° / 0.2 m   |
| Geometric resolution (IFOV)  | 1.7 mrad  |
| SuperResolution (pixel / IFOV)   | 640 x 480 pixels / 1.1 mrad   |
| Image refresh rate   | 33 Hz*  |
| Focus  | manual and motor focus  |
| Spectral range   | 7.5 to 14 µm  |
| <b>Image output visual</b>   |   |
| Image size / min. focus distance   | 640 x 480 pixels / 0.4 m  |
| <b>Image presentation</b>  |   |
| Image display  | 3.5" LCD with 320 x 240 pixels  |
| Display options  | IR image only / real image only/<br>IR and real image   |
| Video output   | USB 2.0   |
| Colour palettes  | 10 (iron, rainbow, rainbow<br>HC, cold-hot,<br>blue-red, grey, inverted<br>grey, sepia, Testo, iron HT)           |
| <b>Measurement</b>   |   |
| Temperature range  | -30 to +100°C /<br>0 to +350 °C (switchable)  |
| High temperature measurement - optional  | +350 to +550 °C   |
| Accuracy   | ±2 °C,<br>±2 % of m.v. / (±3% of m.v.<br>at +350 to +550 °C)  |
| Emissivity / reflected temperature   | 0.01 to 1 /<br>manual   |
| <b>Measuring functions</b>   |   |
| Display of surface moisture distribution (using manual input)  | ✓   |
| Humidity measurement with radio humidity probe (automatic measurement value transfer in real time)** | (✓)   |
| Solar mode   | ✓   |
| Analysis function  | up to 2 measurement points,<br>Hot/Cold Spot Recognition,<br>Isotherms, Area<br>measurement (Min-/Max on<br>Area) |

\* inside the EU, outside 9 Hz

\*\* Wireless humidity probes only in the EU, Norway, Switzerland, USA, Canada, Colombia, Turkey, Brazil, Chile, Mexico, New Zealand, Indonesia

\*\*\* excepting USA, China and Japan

|   |   |
|---|---|
| <b>Imager equipment</b>                         |   |
| Digital camera                                  | ✓   |
| Power LEDs                                      | ✓   |
| Motor focus                                     | ✓   |
| Standard lens                                   | 32° x 23°   |
| Laser (laser classification 635 nm, Class 2)*** | ✓   |
| Voice recording                                 | wired headset   |
| Video streaming (via USB)                       | ✓   |
| <b>Image storage</b>                            |   |
| File format                                     | .bmt; export option in .bmp,<br>.jpg, .png, .csv, .xls  |
| Storage device                                  | SD card 2 GB<br>(approx. 1.000 images)  |
| <b>Power supply</b>                             |   |
| Battery type                                    | Fast-charging, Li-ion battery<br>can be changed on-site   |
| Operating time                                  | 4 hours   |
| Charging options                                | In instrument/in charging<br>station (optional)   |
| Mains operation                                 | yes   |
| <b>Ambient conditions</b>                       |   |
| Operating temperature range                     | -15 to +40 °C   |
| Storage temperature range                       | -30 to +60 °C   |
| Air humidity                                    | 20 to 80 % RH<br>non-condensing   |
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| Weight  | Approx. 900 g   |
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| <b>Standards, tests</b>                         |   |
| EU Directive                                    | 2004 / 108 / EC   |

✓ included in delivery  
(✓) optional



Subject to change, including technical modifications, without notice.