

We measure it.



Building thermography.

Simply see more with the thermal imagers from Testo.

Simply see more **without contact.**

Testo thermal imagers detect thermal anomalies and the condition of buildings internally and externally, quickly and reliably. Materials and components are tested completely without damage thanks to an image creation process.

Energy / heat losses, cold bridges and air leakages can be localised without contact.

Whereas with other Inspection methods, physical intrusions may be required to expose sections or areas where there could be an anomaly, with a Testo Thermal Imager, inspection is non-intrusive and a single glance is enough.

In Testo Thermal Imagers, the presentation of surface moisture for fast identification of potential mould risk in buildings is unique in building thermography.

Testo thermal imagers for building thermography:

- prevent intrusive inspection and save money
- stand out thanks to high resolution images
- ensure fast and comprehensive analysis
- have intuitive operation
- guarantee a large image section thanks to the wide-angle lens

Optimum image resolution, high-value system components and quality "made in Germany": simply better thermography with Testo and the experience of more than 50 years' measurement technology!



For daily use in the building trade

Thanks to excellent detector and lens quality, as well as intelligent system solutions, no detail is missed: this applies to large-scale panorama images just as well as to small details of the measurement object. In addition to the intuitive menu, the PC software IIRSoft in particular also guarantees fast and professional analysis of the image data.

Even the smallest temperature differences can be identified with the outstanding temperature resolution of the Testo thermal imagers. Building thermography with Testo thermal imagers saves time, energy and money. And thus ensures more energy efficiency all round.

Optimum image quality and innovative technology

Testo offers the right thermal imager for every application in building thermography. With high-quality Germanium optics and the best detector quality, the Testo thermal imagers guarantee optimum image quality for every thermographic application. With the patent-pending SuperResolution technology, the geometric resolution of each thermal image is improved by a factor of 1.6 – with four times more pixels. This means that extremely high-resolution thermal images up to a megapixel quality of 1280 960 pixels can be recorded.

High-performance, intuitive and safe

The intuitive operation and the user-friendly handling offer security and flexibility in every situation. The high-performance PC software IIRSoft offers extensive functions for the professional analysis of your thermal images: It allows sophisticated image analysis, provides templates for convenient report creation and with TwinPix, offers image overlay of the real and the thermal images. The information from these two images can thus be presented together in one image on a PC.



What is thermography?

All objects which are warmer than minus 273 degrees centigrade (absolute zero), emit infrared heat radiation. Infrared radiation cannot be seen by the human eye. Thermal imagers, however, can convert this infrared radiation into electrical signals, and present them as a thermal image. The heat radiation is thus made visible for the human eye.

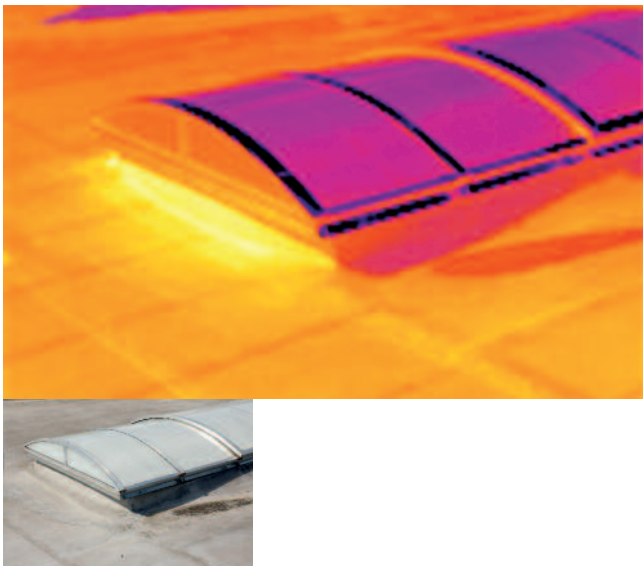
Testo thermal imagers for building thermography.

Thermography has proven its worth as a tool for the detection of weak spots in and on buildings. With Testo thermal imagers, you can trace energy losses securely, and provide efficient energy consultation.



1. Detect building faults and ensure building quality

Analysis with a Testo Thermal Imager is a fast and efficient method of detecting possible construction faults. In addition to this, Testo Thermal Imagers are ideally suitable as providing proof of the quality and the correct implementation of structural renovation measures. Heat loss, moisture and lack of air-tightness in a building are visible in a thermal image. Implementation defects in heat insulation and building defects are also detected – without contact!



2. Locate roof leaks exactly

Damp areas in the roof construction retain the warmth from the sun longer than dry intact areas, especially in flat roofs. For this reason, the roof cools irregularly and therefore in the evening Thermal Inspections can be conducted to highlight the temperature differential. Testo Thermal Imagers make use of these temperature differences to show exactly the areas on a roof with enclosed moisture or damaged insulation.

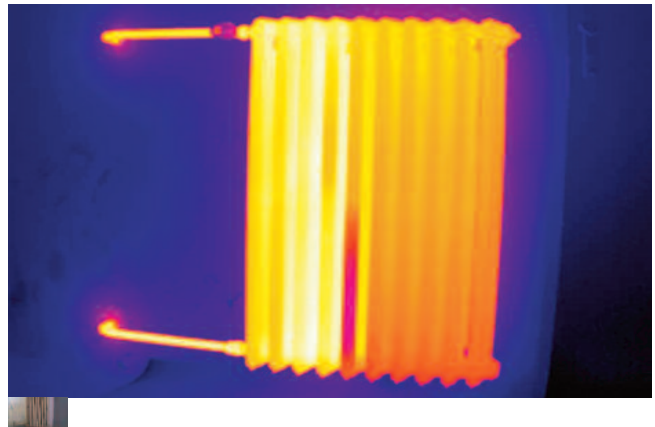
3. Carry out comprehensive energy consultation

In building thermography, infrared technology is ideal for the fast and effective analysis of energy losses in the fabric of the building. Thanks to their high temperature resolution, the Testo Thermal Imagers visualise in detail, faulty insulation and thermal bridges. They are ideal for the recording and documentation of energy losses on outer walls and doors, ceilings and window surrounds. In roof constructions, or the entire building shell, Testo Thermal Imagers are the ideal measurement tools for comprehensive diagnosis and maintenance applications, and whenever energy consultation is required.



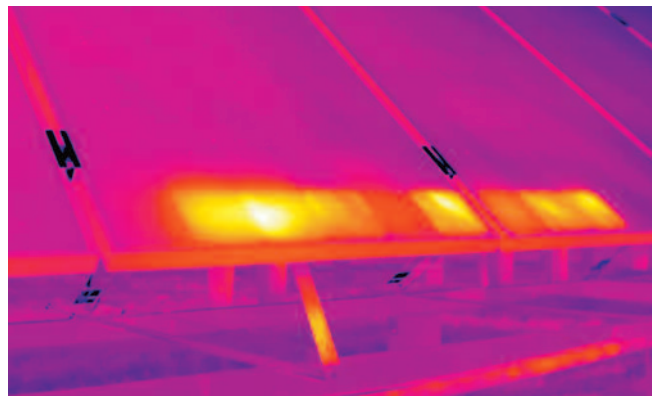
4. Monitoring heating and installation systems

Thanks to the easy and intuitive operation of the Testo Thermal Imagers, heating and ventilation/air conditioning systems can be tested quickly and securely. A glance with the thermal imager is enough to discover irregular temperature distribution. Silting and blockages in radiators, for example, are reliably detected.



5. Monitoring and checking solar energy systems

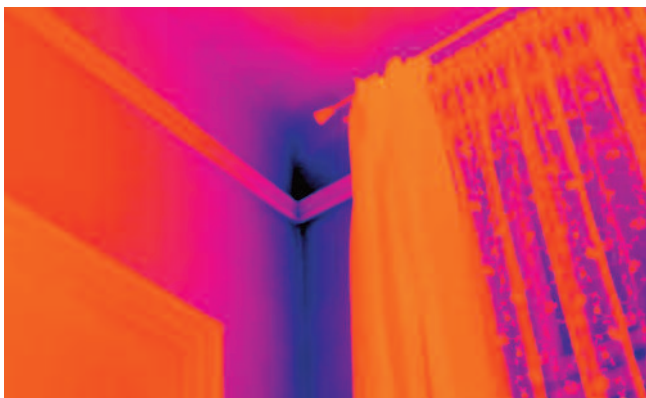
There are two main reasons for examining solar energy systems: Safety and performance monitoring. Solar energy systems reach top performance in full sunshine. Large and small photovoltaic systems can be monitored without contact, from a distance, and especially efficiently using Testo thermal imagers. Malfunctions are identified, the smooth running of all components guaranteed, and thus the highest level of economic viability achieved. Thanks to the possibility of entering the important measurement parameter, sun irradiation intensity, additional security is gained: the value entered is stored together with the thermal image and is available later for image analysis purposes.





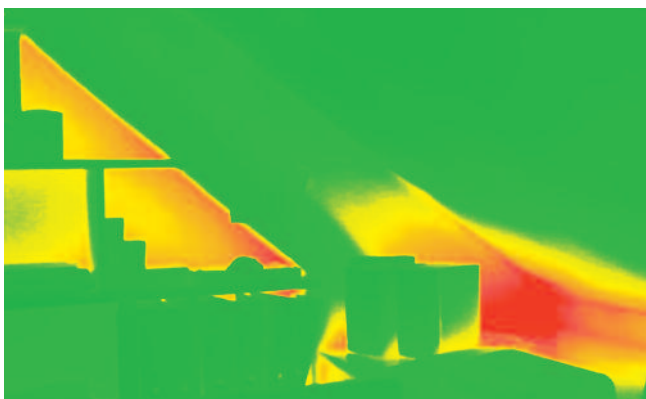
6. Hot on the trail of a ruptured pipe/leak

If a pipe rupture is suspected, the only solution is often to excavate whole sections of walls or floors. With the Thermal Imagers from Testo, your work minimises the amount and area of damage and lowers costs. Leakage in underfloor heating and other inaccessible pipes is located precisely and without damage. The unnecessary excavation of walls and floors is thus minimised, and the repair costs are considerably lower.



7. Examine 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 from blocked drains or insufficient seepage. Testo thermal imagers find the cause of rising damp or precipitation water entry, before the water can cause extensive damage.



8. Prevent mould growth

Cold bridges are energy wasters. Apart from this, in such places, condensation of humidity from the ambient air can occur. As a result of this, mould growth develops in these places, and with it, the risk to the health of the inhabitants. Using the externally measured ambient temperature and air humidity, as well as the measured surface temperature, Testo thermal imagers calculate the value of the relative surface humidity for every measurement point. Mould danger is shown on the display before it is actually visible: endangered areas are shown in red, risk-free areas appear in green. This means dangerous mould growth can be counteracted in time – even in hidden corners and niches.

9. Testing the air-tightness of buildings

If doors or windows are not correctly installed, in winter cold air can enter and warm indoor air can escape. Draughts, increased heat loss from air leakage, and above all, high energy costs, are the result. The combination of thermography and a Blower Door Test System has proven its value. In this procedure, a positive or negative pressure can be created in the building, so that air can flow readily into or out of the building through leaky seals and cracks. Testo Thermal Imagers make the detection of the the leaks visibly clear and considerably easier. Gaps in the building integrity are thus located and visually highlighted showing the areas of air leakage and thus sources of heat loss.



10. Analyze building shells at a glance

Conducting thermography on large buildings presents the user with special challenges. Spatial limitations such as walls, streets or the security zones of adjacent objects, can also result in it not being possible to record the measurement object with a single image. Testo thermal imagers help to gain the necessary overview here. Several images of the building shell taken from short range can be stitched together to one thermal imager using the panorama image assistant. Thermal irregularities can be seen on the entire building shell with a high level of attention to detail.



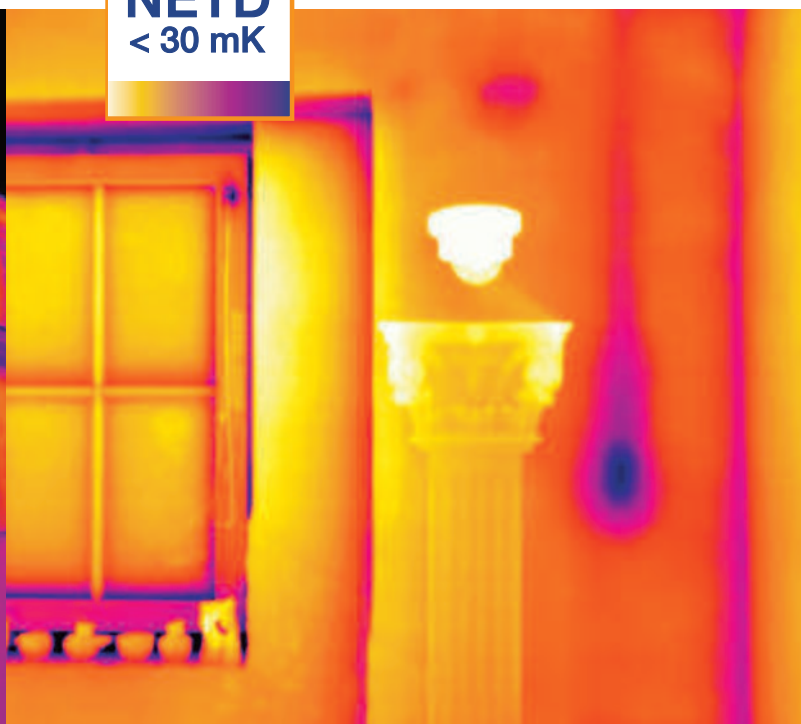
Innovative technology – easy to use.

Testo thermal imagers offer optimum image quality and intelligent system components. In order to be able to conduct thermography applications with the highest possible level of confidence and efficiency, the engineers at Testo have not only developed innovative technologies, but have also adapted them to each other perfectly in the thermal imagers. This means that each Testo Thermal Imager is an intuitively operable, highly developed thermography system.

640
X
480



NETD
< 30 mK



Excellent image quality

The heart of a thermal imager is the detector. Testo places great value on the highest possible quality for these components. Detectors of 160 x 120 pixels up to 640 x 480 pixels are at work in Testo Thermal Imagers. In combination with the high-quality Germanium optics, this guarantees optimum image quality and resolution in any situation. In addition to this, using the Testo SuperResolution technology, extremely high resolution images with up to 1280 x 960 pixels can be recorded.

For the measurement of finest temperature differences, the best possible thermal sensitivity (NETD) is also essential in order to show fine detail. Testo Thermal Imagers offer an excellent NETD of up to < 30 mK. In combination with a high image resolution, this allows the finest temperature differences in the smallest structures to be made visible.



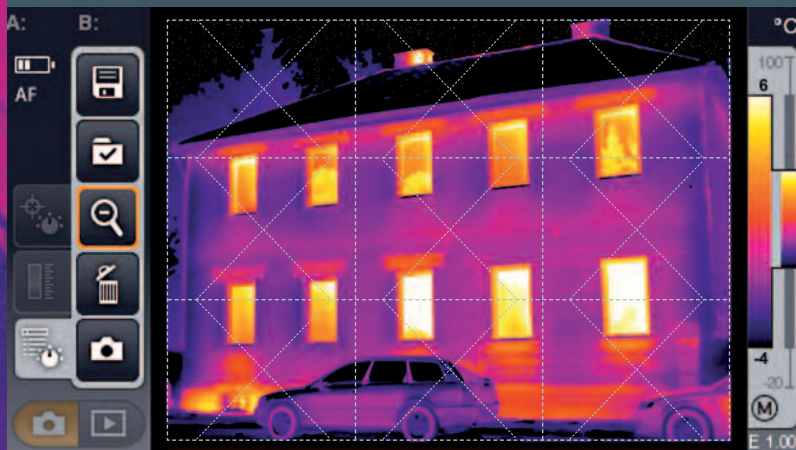
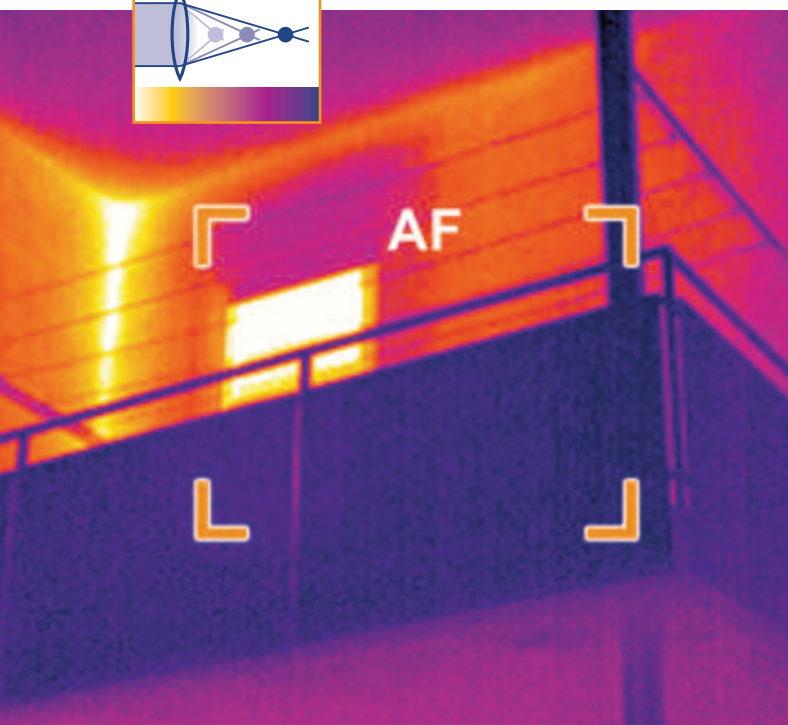
Ideal ergonomics

In order to be able to use the thermal imager safely and efficiently in building thermography applications, Testo offers sophisticated ergonomics. In addition to the proven and practical pistol design, there are also Testo Thermal Imagers in a flexible camcorder design. These have a fold-out, rotatable display, allowing images to be viewed and recorded whilst using cameras in difficult positions such as above the user's head. The ergonomic rotatable handle additionally allows confident handling in difficult-to-access places (such as at floor level).

Intuitive operation

The intuitive operability of the Testo Thermal Imagers was in focus in the development of the product from the beginning. The different camera types (pistol design or camcorder design) can be used very easily and safely in any situation. With the newly developed hybrid operation, graphic input directly on a touchscreen can be selected in addition to the proven joystick operation.

In order to always have a hand free (e.g. for safety reasons), Testo thermal imagers offer the possibility of one-handed operation, with which all functions of the camera can be comfortably operated just using one hand.



The right focus

The prerequisite for any thermographic measurement is a properly focussed measurement object. With Testo thermal imagers, focussing can be carried out according to personal preference: whether manually, with the motor focus or by auto focus – the user has the choice.

Practical panorama image assistant

Conducting thermography on very large objects is a great challenge to the user. He is always faced with the conflict between attention to detail and the most complete object coverage as possible. In order not to have to administer, view and compare several images, but to be able to analyze and document the entire object at a glance, there is now the Testo panorama image assistant. It simply stitches several individual images together to one total view. This creates a total image with a high level of attention to detail.

Versatile exchangeable lenses

Testo Thermal Imagers can, thanks to the possibility of using several lenses, be flexibly adapted to different measurement requirements. As standard, a light wide-angle lens is provided, allowing fast work. If the application requires the resolution of small structures, or if images from a greater distance are necessary, telephoto lenses are available.



Special lens protection glass

In order to save the valuable Germanium lenses from possible damage, the Testo Thermal Imagers offer a special Protection Glass for the optimum safeguarding from scratching or dust to the lens.



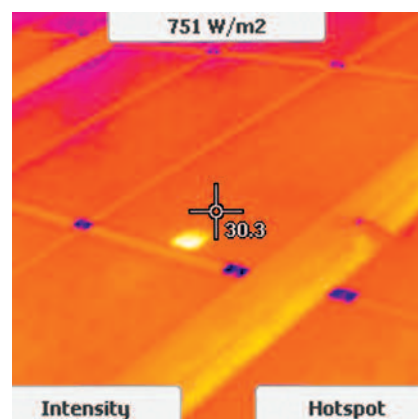
Built-in digital camera with power LEDs

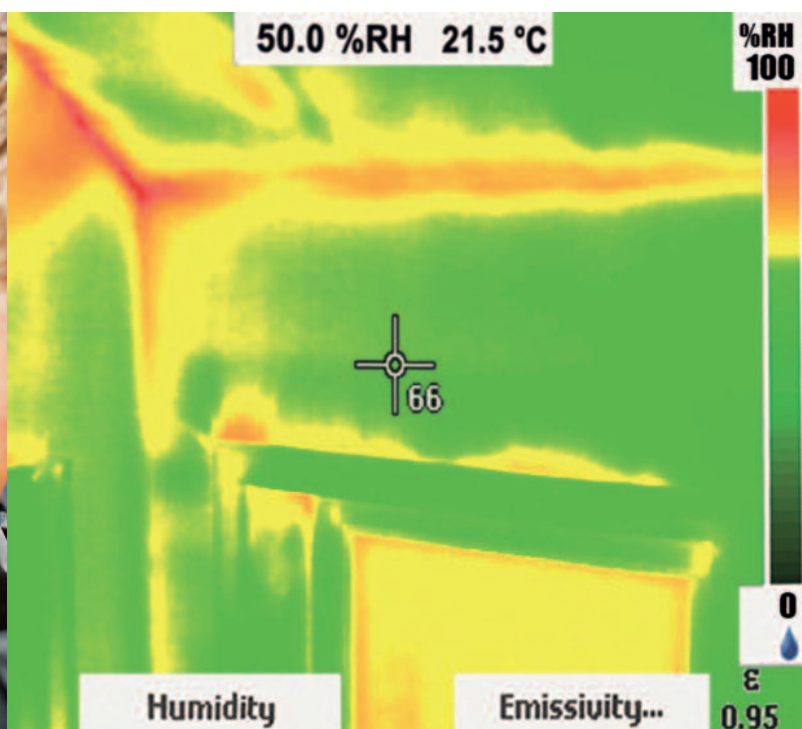
Testo thermal imagers have an integrated digital camera, with which a real image of the measurement object can be recorded parallel to the thermal image. This means that for every thermal image, the corresponding real image is also available. The power LED's guarantee optimum illumination of dark areas when recording real images.



Safe solar mode

The irradiation intensity of the sun plays an important part in the monitoring of photovoltaic systems. If this is too low, a meaningful thermographic measurement is not possible. In the Testo thermal imagers' solar mode, the sun irradiation value can be simply entered into the camera. This value is not lost, it is stored with each thermal imager and is available for analysis in the PC software.





Parallax-free laser marker

In order to assist with some measurement situations, the laser marker is shown in the display of the Testo Thermal Imagers. This orientation point exactly mirrors the measurement spot which is targeted by the laser on the measurement object. The temperature at the exact spot at which the laser is pointing is displayed.

Unique humidity measurement

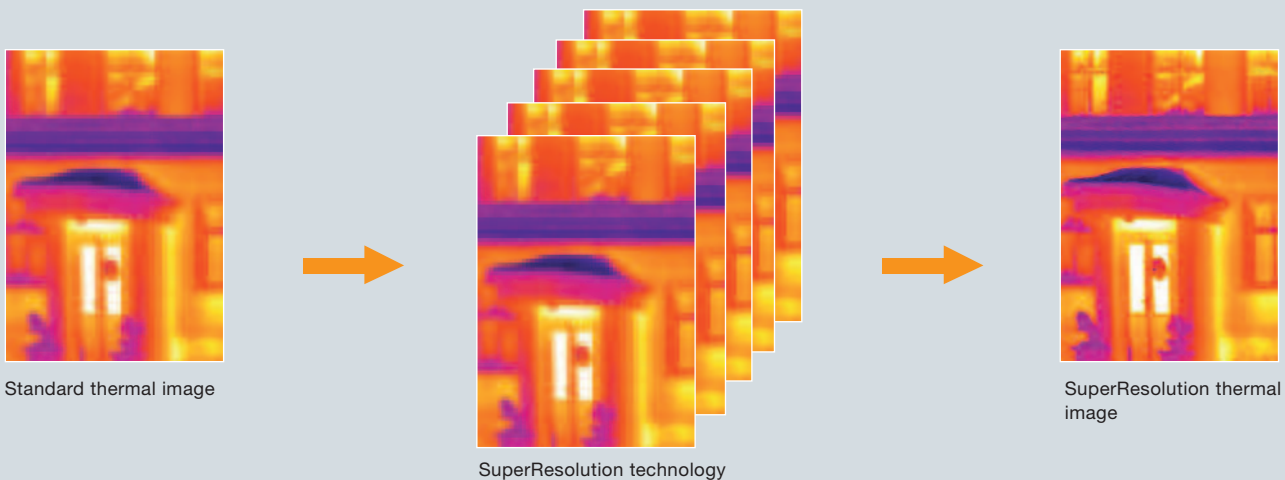
Testo thermal imagers show mould-risk areas such as ceilings, walls or corners directly in the display: endangered areas are shown in red, risk-free areas appear in green. Using the externally measured ambient temperature and air humidity, as well as the measured surface temperature, Testo thermal imagers calculate the value of the relative surface humidity for every measurement point. An external wireless probe can additionally be connected, with which the ambient parameters are transferred to the thermal imager, making the measurement even more convenient.

SuperResolution technology.

High-resolution thermal images

Optimum thermography is basically simple: the higher the image resolution and the more pixels, the better the quality of the thermal image. This allows greater attention to detail and provides clearer presentation of the measurement object. This is more relevant when you cannot approach the

measurement object closely, or when one needs to identify the finest structures, a high-resolution image quality in these situations is essential. The more detail you can see in the thermal image, the better the analysis will be. identify the finest structures, a high-resolution image quality is essential. Because the more you can see in the thermal image, the better is the analysis.



Simply see more with one upgrade

With the SuperResolution technology, the image quality of the Testo Thermal Imagers is improved by one class, i.e. by four times more pixels, and a geometric resolution which is better by a factor of 1.6. For example, 160 x 120 pixels are turned into 320 x 240 pixels at once, or 640 x 480 pixels become 1280 x 960 pixels. And all this simply by software upgrade in all current Testo Thermal Imagers.

The patent-pending innovation from Testo uses the natural movement of the hand, and records several slightly offset images very quickly one after the other. These are then calculated into one image using an algorithm. The result: Four times more pixels and a considerably better geometric

resolution of the thermal image. The SuperResolution technology provides extremely high-resolution thermal images with up to 1280 x 960 pixels. These considerably more meaningful thermal images can be easily called up in the PC software, and analysed.



The PC software **IRSoft**.

IRSoft – the high-performance PC software for professional thermography analysis from Testo. The IRSoft allows comprehensive analysis of thermal images on a PC. It stands out thanks to its clear structure and high user-friendliness. All analysis functions are explained using easily comprehensible symbols. So-called 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

Infrared images can be conveniently processed and analysed on a PC using the IRSoft. Extensive functions are available for professional image analysis. For example, the different emissivities of the various materials for image areas can be corrected afterwards, 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 temperature curves. In order to visualise critical temperatures in an image, limit value violations as well as pixels in specific temperature range can be emphasised. In addition to this, unlimited measurement points can be set, hot/cold spots determined, and comments on the analysis made.

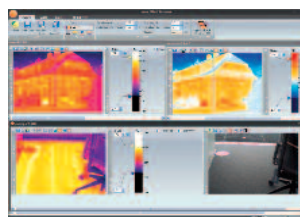
IRSoft – all important information at a glance

Several infrared images can be opened and analysed parallel to each other. All analyses in the images are visible at a glance and comparable to each other. Alterations to settings can be carried out either for the whole infrared image or for individual image sections. It is additionally possible to transfer current image corrections to all opened infrared images with a mouse click.

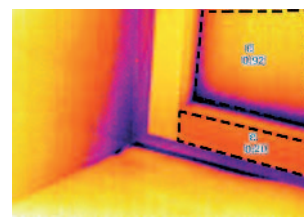
Easy creation of professional thermography reports

Infrared and real images are displayed in the screen already during analysis, and automatically taken over into the report. This makes easy and professional documentation of the measurement results possible.

The report assistant guides step by step to a complete and clear report. Different templates are available not only for short and quick reports, but also for more comprehensive documentation. The templates contain all relevant information on measurement site, measurement task and examination results. In addition to this, the report designer can be used to create user-defined templates for individual reports.

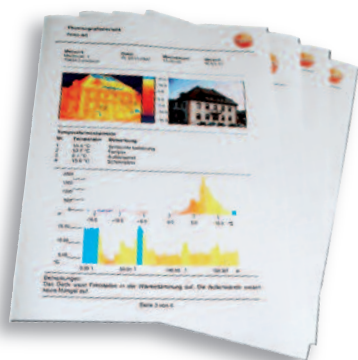


Simultaneous evaluation and comparison of several images



Change of emissivity by area for exact temperature analysis.

Multi-page reports for complete documentation



With the IRSoft from Testo:

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

TwinPix – thermal and real images in one image.

The thermal imagers from Testo with integrated digital camera automatically store a thermal and a real image simultaneously. With the professional image overlay TwinPix, these two images can be superimposed over each other in the PC software IRSofT. The information from the thermal image and the real image are then displayed together in one 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 orientation in the image and in the exact localisation of the area of the Thermal Defect. Setting the transparency level regulates the intensity of the infrared or the real image content 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 practically. The overlaid image is taken over into the report for documentation purposes.

The thermal imagers from Testo.

testo 875 series (model testo 875-1)

- Detector size 160 x 120 pixels
- SuperResolution technology (to 320 x 240 pixels)
- Thermal sensitivity < 80 mK
- Large field of view thanks to 32° lens
- 9 Hz Refresh Rate
- Temperature range -20°C to +280°C
- Solar mode
- Auto Hot/Cold Spot Recognition



testo 875i series – (models testo 875-1i & testo 875-2i)

- Detector size 160 x 120 pixels
- SuperResolution technology (to 320 x 240 pixels)
- Thermal sensitivity < 50 mK
- Large field of view thanks to 32° lens
- Exchangeable lenses
- Built-in digital camera with power LEDs
- Laser pointer
- Lens protection glass (optional)
- Voice recording using headset
- Min-/Max on area calculation
- Solar mode
- 33 Hz Refresh Rate
- Temperature range -20°C to +350°C
- Auto Hot & Cold Spot identification
- Laser Pointer
- Measurement mode for detecting areas with danger of mould



testo 876 series (model testo 876)

- Detector size 160 x 120 pixels
- SuperResolution technology (to 320 x 240 pixels)
- Flexible fold-out, rotatable display
- Thermal sensitivity < 80 mK
- Large field of view thanks to 32° lens
- Exchangeable lenses
- Integrated digital camera
- Lens protection glass (optional)
- Voice recording using headset
- Min-/Max on area calculation
- Solar mode
- 9 Hz Refresh Rate
- Temperature range -20°C to +280°C
- Fine Focus Manual and Motorised
- Auto Hot & Cold Spot identification
- Measurement mode for detecting areas with danger of mould



testo 882 series (model testo 882)

- Detector size 320 x 240 pixels
- SuperResolution technology (to 640 x 480 pixels)
- Thermal sensitivity < 50 mK
- Large field of view thanks to 32° lens
- Built-in digital camera with power LEDs
- Laser pointer
- Lens protection glass (optional)
- Voice recording using headset
- Min-/Max on area calculation
- Solar mode
- 33 Hz Refresh Rate
- Temperature range -20°C to +350°C
- Fine Focus Manual and Motorised
- Auto Hot & Cold Spot identification
- Laser Pointer
- Measurement mode for detecting areas with danger of mould



testo 885 series (models testo 885-1 & testo 885-2)

- Detector size 320 x 240 pixels
- SuperResolution technology (to 640 x 480 pixels)
- Flexibility thanks to rotatable handle and fold-out, rotatable display
- Thermal sensitivity < 30 mK
- Large field of view thanks to 30° lens
- Exchangeable lenses
- Built-in digital camera with power LEDs
- Lens protection glass (optional)
- Voice recording using headset
- Area measurement (Min/Max & Average)
- Auto and Manual focus
- Panorama image assistant
- Parallax-free laser marker
- Solar mode
- 33 Hz Refresh Rate
- Temperature range -20°C to +350°C
- Fine Focus Manual and Motorised
- Auto Hot & Cold Spot identification
- Hybrid operation via Touchscreen or joystick
- Fully Radiometric video measurement
- Measurement mode for detecting areas with danger of mould



testo 890 series (models testo 890-1 & testo 890-2)

- Detector size 640 x 480 pixels
- SuperResolution technology (to 1280 x 960 pixels)
- Flexibility thanks to rotatable handle and fold-out, rotatable display
- Thermal sensitivity < 40 mK
- Large field of view thanks to 42° lens
- Exchangeable lenses
- Built-in digital camera with power LEDs
- Lens protection glass (optional)
- Voice recording using headset
- Area measurement (Min/Max & Average)
- Auto and Manual focus
- Panorama image assistant
- Parallax-free laser marker
- Solar mode
- 33 Hz Refresh Rate
- Temperature range -20°C to +350°C
- Fine Focus Manual and Motorised
- Auto Hot & Cold Spot identification
- Hybrid operation via Touchscreen or joystick
- Fully Radiometric video measurement
- Measurement mode for detecting areas with danger of mould



Made in Germany

Overview of Testo thermal imagers.

Features	testo 875-1	testo 875-1i	testo 875-2i	testo 876	testo 882	testo 885-1	testo 885-2	testo 890-1	testo 890-2	
Detector size (in pixels)	160 x 120				320 x 240			640 x 480		
SuperResolution technology (in pixels)	(to 320 x 240)				(to 640 x 480)			(to 1280 x 960)		
Thermal sensitivity (NETD)	< 80 mK	< 50 mK		< 80 mK	< 50 mK	< 30 mK		< 40 mK		
Temperature measuring range	-20 to +280 °C	-20 to +350 °C		-20 to +280 °C	-20 to +350 °C					
Image refresh rate	9 Hz	33 Hz*		9 Hz	33 Hz*					
Standard lens: FOV IFOV _{geo} / IFOV _{geo-SR}	32° x 23° 3.3 / 2.1 mrad				32° x 23° 1.7/1.1mrad	30° x 23° 1.7 / 1.06 mrad		42° x 32° 1.13 / 0.71 mrad		
Exchangeable telephoto lens: FOV IFOV _{geo} / IFOV _{geo-SR}	-	-	(9° x 7°) (1.0 / 0.6 mrad)	-	-	(11° x 9°) (0.6/0.38 mrad)	-	(15° x 11°) (0.42/0.26 mrad)		
Focussing	manual			manual / motor		manual / auto				
Rotatable display	-	-	-	✓	-	✓	✓	✓	✓	
Rotatable handle	-	-	-	-	-	✓	✓	✓	✓	
Touchscreen	-	-	-	-	-	✓	✓	✓	✓	
High temperature measurement	-	-	(up to 550 °C)	-	(up to 550 °C)	-	(up to 1,200 °C)	-	(up to 1,200 °C)	
Auto Hot/Cold Spot Recognition	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Min-/Max on area calculation	-	-	✓	✓	✓	✓	✓	✓	✓	
Isotherm function	-	-	✓	✓	✓	✓	✓	✓	✓	
Alarm value function	-	-	-	-	-	✓	✓	✓	✓	
Display of surface moisture distribution via manual input	-	-	✓	✓	✓	-	✓	-	✓	
Humidity measurement with wireless humidity probe** (automatic measurement value transfer in real time)	-	-	(✓)	(✓)	-	-	(✓)	-	(✓)	
Solar mode	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Voice recording	-	-	✓	✓	✓	-	✓	-	✓	
Integrated digital camera	-	640x480 pixels	640x480 pixels	640x480 pixels	640x480 pixels	3.1 MP	3.1 MP	3.1 MP	3.1 MP	
Integrated power LEDs	-	-	✓	✓	-	✓	✓	✓	✓	
Panorama image assistant	-	-	-	-	-	✓	✓	✓	✓	
SiteRecognition technology	-	-	-	-	-	-	✓	-	✓	
Video measurement with up to 3 measurement points (via USB)	-	-	-	-	-	✓	✓	✓	✓	
Fully radiometric video measurement incl. logger function (via USB)	-	-	-	-	-	-	(✓)	-	(✓)	
Laser***	-	Laser pointer		-	Laser pointer	Laser marker				

(✓) Optional ✓ Standard - not available

* Within the EU and for countries without export restrictions, otherwise 9 Hz

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

Your practical benefit

The detector size indicates the number of temperature measurement points (pixels) with which the thermal imager is equipped. The more pixels, the more detailed and clearer are the measurement objects presented.

SuperResolution technology improves the image quality by one class, i.e. the resolution of the thermal image is four times higher.

The thermal sensitivity (NETD) displays the smallest temperature difference which can be resolved by the thermal imager. The lower this value is, the smaller the temperature differences which can be measured.

The temperature measuring range of your thermal imager informs up to which temperature your thermal imager is able to record and measure the heat radiation of objects.

The display refresh rate informs as to how frequently the thermal imager is refreshed per second.

The standard lens (light wide-angle lens) quickly records a large image section, and thus allows an ideal overview of the temperature distribution of the measurement object.

The exchangeable telephoto lens assists in the measurement of the smallest details and visualizes them even at greater distances in the thermal image.

The focussing allows the focus of the thermal image to be adjusted exactly. This can be done manually, with motor support, or automatically.

Using the rotatable display, thermography can be conducted safely from many additional positions (e.g. overhead) Undesired reflections on the display are avoided.

The rotatable handle allows secure handling of the thermal imager in difficult-to-access places (such as at floor level).

In addition to joystick control, the thermal imager can be operated via the touchscreen.

With the high temperature option, the measuring range can be flexibly extended. Thanks to a high temperature filter, the measurement of temperatures up to 550 °C / 1,200 °C is possible.

The coldest and the hottest spot on the measurement object are automatically indicated in the thermal image in the imager display. Critical heat conditions are identified at a glance.

The minimum and maximum temperatures of an image section are displayed directly on site. Critical heat conditions in this image section are identified at a glance.

The optical colour alarm shows all image points whose temperature values are within a defined range, marked in colour in the thermal image.

The optical colour alarm shows all image points whose temperature values are above or below a defined limit value, marked in colour in the thermal image.

The value of the relative surface moisture is displayed for each measurement point. This is calculated from the externally measured ambient temperature and humidity as well as the measured surface temperature.

The value of the relative surface moisture is displayed for each measurement point. This is calculated from the ambient temperature and humidity automatically transferred in real time by wireless probe, as well as the measured surface temperature.

In solar mode, the value of the sun irradiation can be entered into the thermal imager. Its value is stored with each thermal image and is then available for analysis in the evaluation software.

Localized weak spots can be easily commented using voice recording. Additional information is thus documented directly on site.

Parallel to the thermal image, a real image of each measurement object is also stored. A faster and easier object inspection can be carried out due to the simultaneous display of thermal and real images.

The power LED's guarantee optimum illumination of dark areas when recording real images.

For large measurement objects, the panorama image assistant allows the analysis and documentation of a total image stitched together from many individual images. There is no need to administer, view and compare several images.

The SiteRecognition technology takes care of the recognition, storage and administration of the thermal images for periodic inspection tours with similar measurement objects.

With the video measurement, thermographic video recordings can be directly transferred to a PC. Up to 3 measurement points are available for each individual image, and can be analyzed.

Thanks to the fully radiometric video measurement, thermal processes can be directly transferred to a PC as a video as well as periodic or event-based single images. All temperature measurement points are available for each individual image.

Using the laser pointer, a laser spot can be displayed on the measurement object, for orientation purposes. With the laser marker, this laser point is also shown parallax-free in the display of the thermal imager.



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