



## testo 865, 868, 871, 872

### Short instructions



These short instructions describe the basic operating steps. Please refer to the instruction manual to find out how to handle the product safely and for detailed information.

You can find this at [www.testo.com](http://www.testo.com) in the Downloads section of the relevant product detail page.



#### Analysis software testo IRSoft

Use the **testo IRSoft** software to analyze your thermal images extensively and in detail, and to create professional reports.

You can download the software free of charge and licence-free via the following link:



[www.testo.com/irsoft](http://www.testo.com/irsoft)



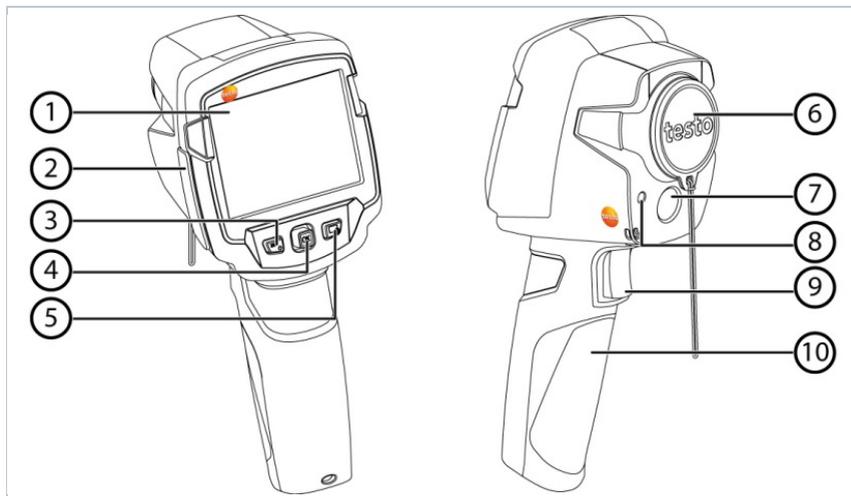
#### testo Thermography App (for testo 868, 871, 872)

Use the **testo Thermography** app to transfer thermal images live to smartphone / tablet and to create quick analyzes and simple reports directly on site.

Download the app for Android or iOS for free from the App Store:



**testo Thermography App**



Element	Function
1 Display	Displays infrared and real images (except testo 865), menus and functions
2 Interface terminal	Contains micro USB interface for power supply and connection to the computer
3 -  key - <b>Esc</b> key	- Switch camera on and off - Cancel action
4 - <b>OK</b> key - <b>Joystick</b>	- Open menu, select function, confirm setting - Navigate within the menu, highlight function, select colour palette
5 Quick select key 	Opens the function assigned to the quick select key; the icon for the selected function is displayed bottom right
6 Infrared camera lens; protective cap	Takes infrared images; protects the lens
7 Digital camera (except testo 865)	Takes real images
8 Laser	Marking the measuring point (only testo 872)
9 <b>Trigger</b>	Saves the displayed image
10 Battery compartment	Contains the rechargeable battery

## Switching the camera on/off

- 1 - Remove the protective cap from the lens (6).
- 2 - Switching on: press  (3).  
- Switching off: press  and hold down (3).



To ensure measuring accuracy, the camera performs automatic zeroing approx. every 60 s. You will hear a “click” and the image freezes briefly.

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## Getting to know the menu

- 1 - Press **OK** (4) to open the menu.
- 2 - Move **joystick** (4) up/down to highlight a function (an orange box appears around it).
- 3 - Press **OK** (4) to select the function.
- 3.1 - Move the **joystick** (4) right to open the sub-menu (indicated with **▶**).

## Saving an image

- 1 - Press the **trigger** (8).  
**▶** The infrared image is saved automatically.  
testo 868, 871 and 872: irrespective of the selected image type, an infrared image is always saved with the attached real image.



If a higher resolution is required: In the menu, select the **SuperResolution** function under **configuration**.

Ⓜ More information can be found in the instruction manual.

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## Displaying and deleting images

- 1 - Select **image gallery** function. To do this, see Getting to know the menu.
- 2 - Display image: Move **joystick** (4) left/right/up/down to select the image, then press **OK** (4).
- 3 - Press  (5) to delete the image.

## Setting emissivity

Function is only available if the infrared **image type** has been selected.



The emissivity describes the capability of a body to emit thermal radiation. For correct measurement results, the emissivity can be set according to the specific material.

With  $\epsilon$ -Assist, the emissivity and reflected temperature are automatically detected.

RTC (Reflected Temperature Compensation) is a correction value for thermal radiation through other objects.

@ More information can be found in the instruction manual and the pocket guide.

- 1 - Select the **emissivity** function. To do this, see Getting to know the menu.
- 2 - Move **joystick** (4) up/down to highlight the required material, then press **OK** (4).

## Setting measurement

Function is only available if the infrared **image type** has been selected.

- 1 - Open the **measurement** submenu. To do this, see Getting to know the menu.
  - ▶ The submenu with measurement opens:
    - **Pixel mark:**
      - **Single point measurement:** the temperature measuring point in the centre of the image is marked with white crosshairs and the value is displayed. In saved images, the crosshairs can be moved using the joystick in order to read the value of other measuring points.

- **Coldspot, hotspot:** the lowest or highest temperature measuring point is marked with blue or red crosshairs and the value is displayed.
  - **Min/Max on Area (testo 872):** the minimum, maximum and mean values for a selected area are displayed.
  - **Measurement range:** temperature range in which measuring values are displayed (for information).
  - **Differential temperature:** identifies the difference between two temperatures.
- 2 | - Move **joystick** (4) up/down to highlight the required function, then press **OK** (4).

### Selecting the colour palette

Function is only available if the infrared **image type** has been selected.

- 1 | - Move **joystick** (4) up/down to toggle between the colour palettes.

### Selecting image type (infrared image, real image) (testo 868, 871 and 872)

- 1 | - Select **image type** function. To do this, see Getting to know the menu.
- ▶ The image type switches automatically from infrared image to real image and vice versa.

### Setting the scale

Function is only available if the infrared **image type** has been selected.



Automatic scaling continuously adjusts the scale to the relevant measuring values and the colour assigned to a measuring value changes.

With manual scaling, fixed limit values are defined and the colour assigned to a measuring value is fixed (important for visual image comparisons).

Scaling influences the way the infrared image is shown on the display but does not affect the recorded measuring values.

A standardized scale is set via **ScaleAssist** depending on the inside and outside temperature.

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- 1 | - Select the **scale** function. To do this, see Getting to know the menu.

- 2 - Move **joystick** (4) up/down to select **auto**, **manual** or **ScaleAssist** and then press **OK** (4).
- ▶ Automatic scaling is activated. **A** is displayed bottom right.

### Manual scaling

- 1 - Move **joystick** (4) left/right until **min. temperature** (lower limit value) is highlighted.  
- Move **joystick** (4) up/down to set the value and then press **OK** (4).
  - 2 - Move **joystick** (4) left/right until **min. temperature** (lower limit value) and **max. temperature** (upper limit value) are highlighted.  
- Move **joystick** (4) up/down to set the values and then press **OK** (4).
  - 3 - Move **joystick** (4) left/right until **max. temperature** (upper limit value) is highlighted.  
- Move **joystick** (4) up/down to set the value and then press **OK** (4).
- ▶ Manual scaling is activated. **M** is displayed bottom right.

### Configuring the quick select key



- The quick select key (5) is an additional navigation option, which you can use to call up functions simply by pressing a key.

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- 1 - Move **joystick** (4) right to select the **configure key** function.
  - 2 - Move **joystick** (4) up/down to highlight the required function, then press **OK** (4).
- ▶ The icon for the selected function is displayed bottom right.
- 3 - Press  (5) to call up the function.





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