

Element	Function
1 Display	Shows infrared and real images, menus and functions
2 Interface terminal	Includes micro USB interface for power supply and connection to a computer
3 - Power button - Esc button	- Switch camera on and off - Cancel action
4 - OK button - Joystick	- Open menu, select function, confirm setting - Navigate in menu, select function, select colour palette
5 Quick select button	Opens the function assigned to the quick select button; the icon for the selected function is shown at the bottom right of the display
6 Infrared camera lens; protective cap	Takes infrared images; protects the lens
7 Digital camera (only testo 870-2)	Takes real images
8 Trigger	Saves the displayed image
9 Battery compartment	Contains the 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 images freezes briefly.

### Navigating the menu

- 1 - Press OK (4) to open the menu.
- 2 - Move the Joystick (4) up/down to select 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.  
Only testo 870-2: 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 under **Configuration**, select the function **SuperResolution** (optional function).  
@ More information can be found in the instruction manual.

### Displaying and deleting images

- 1 - Select the **Image gallery** function. For how to do this, see Navigating the menu.
- 2 - Displaying an image: move the Joystick (4) left/right/up/down to select the image, then press OK (4).
- 3 - Press (5) to delete the image.

### Setting the emission level

testo 870-2: function only available if the **Image type** infrared has been selected.



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

- 1 - Select the **Emission level** function. For how to do this, see Familiarising yourself with the menu.
- 2 - Move the Joystick (4) up/down to select the required material, then press OK (4).



RTC (Reflected Temperature Compensation) is a correction value for thermal radiation through other objects. If objects with a much higher/lower temperature are in the proximity of the object to be measured, the irradiated temperature value must be entered. If this is not the case, the ambient temperature can be entered.

@ More information can be found in the instruction manual and the Pocket Guide.

### Setting measurements

testo 870-2: function only available if the **Image type** infrared has been selected.

- 1 - Open the **Measurement** sub-menu. For how to do this, see Navigating the menu.
  - The sub-menu with the measurements opens:
    - **Single point measurement**: the temperature measuring point in the centre of the image is highlighted with white crosshairs and the value is displayed. In the case of saved images, the crosshairs can be moved using the joystick to read off the value for other measuring points.
    - **Coldspot, Hotspot**: the lowest or highest temperature measuring point is highlighted with blue or red crosshairs and the value is displayed.
    - **Measurement range**: the temperature range in which measuring values are displayed (for information purposes).
- 2 - Move the Joystick (4) up/down to select the required function, then press OK (4).



### Selecting the colour palette

testo 870-2: function only available if the **Image type** infrared has been selected.

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

### Selecting the image type (infrared image, real image) (only testo 870-2)

- 1 - Select the **Image type** function. For how to do this, see Navigating the menu.

▶ The image type switches automatically from infrared image to real image and vice versa.

### Setting the scale

testo 870-2: function only available if the **Image type** infrared has been selected.



Automatic scaling adjusts the scale continuously 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.

- 1 - Select the **Scale** function. For how to do this, see Navigating the menu.
- 2 - Move the Joystick (4) left/right until **Auto** is selected and then press **OK** (4).
  - ▶ Automatic scaling is activated. **☑** is shown at the bottom right of the display.
- 2.1 - Move the Joystick (4) left/right until **☐** (lower limit value) is selected.
  - Move the Joystick (4) up/down to set the value and then press **OK** (4).
- 2.2 - Move the Joystick (4) left/right until **☐** (lower limit value) and **☐** (upper limit value) are selected.
  - Move the Joystick (4) up/down to set the values and then press **OK** (4).

- 2.3 - Move the Joystick (4) left/right until **☐** (upper limit value) is selected.
  - Move the Joystick (4) up/down to set the value and then press **OK** (4).

▶ Manual scaling is activated. **☑** is shown at the bottom right of the display.

### Assigning the quick select button



- The quick select button (5) is an additional navigation option, which you can use to call up functions a the touch of a button.

- 1 - Move the Joystick (4) right to select the **Assign button** function.
- 2 - Move the Joystick (4) up/down to select the required function, then press **OK** (4).
  - ▶ The icon for the selected function is shown at the bottom right of the display.
- 3 - Press **☑** (5) to call up the function.

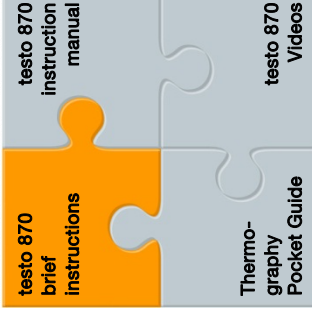
# testo 870

## Brief instructions

www.testo.com



www.testo.com/870manuals



These brief 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.