

We measure it. **testo**



# Thermal imager

testo 870

the entry into professional thermography



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Detector size 160 x 120 pixels / 320 x 240 pixels<sup>#</sup>

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Thermal sensitivity <100 mK

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Large display of 3.5" landscape format

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Focus free - always a crisp image without the need to adjust focus

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Wide angle lens - see more from small distance

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Integrated digital camera (870-2)

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Ergonomic design, compact and easy to handle

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The thermal imager testo 870 quickly and reliably identifies weak spots in systems before they break down. Thanks to the high quality infrared resolution of 160 x 120 pixels, testo 870 gives the best image quality within the entry-level segment. With SuperResolution technology, get even more pixels which are 4 times more measured values: 320 x 240 data points.

It is compact, easy to handle and designed to work on-site. Its easy operation allows you to just switch on and go. Find electrical & mechanical faults even more easily and ensure optimum efficiency of systems. Moreover, it pays off only in a few applications & in the shortest span of time.

## Technical data

|                                    | testo 870-1                                      | testo 870-2           |
|------------------------------------|--|-----------------------|
| <b>Infrared image output</b>       |  |                       |
| Infrared Resolution                | 160 x 120 pixels / 320 x 240 pixels <sup>#</sup> |                       |
| Thermal sensitivity (NETD)         | <100 mK at 30°C                                  |                       |
| Field of view/min. focus distance  | 34° x 26° / 0.5 m (fixed focus)                  |                       |
| Geometric resolution (IFOV)        | 3.68 mrad / 2.3 mrad <sup>#</sup>                |                       |
| Image refresh rate                 | 9 Hz   |                       |
| Focus                              | Auto   |                       |
| Spectral range                     | 7.5 to 14 µm                                     |                       |
| <b>Image output visual</b>         |  |                       |
| Image size / min. focus distance   | –  | 3.1 MP / 0.5 m        |
| <b>Image presentation</b>          |  |                       |
| Image display                      | 3.5" LCD with 320 x 240 pixels                   |                       |
| Display options                    | IR image only                                    | IR image / real image |
| Colour palettes                    | 4 (Iron, rainbow hc, cold-hot, grey)             |                       |
| <b>Image presentation</b>          |  |                       |
| Temperature range                  | -20 to +280°C                                    |                       |
| Accuracy                           | +/-2 °C, +/-2 % of mv                            |                       |
| Emissivity / reflected temperature | 0.01 to 1/<br>manual                             |                       |
| <b>Measuring functions</b>         |  |                       |
| Analysis function                  | Centre point, Hot/Cold-Spot Recognition          |                       |

- ✓ Included in delivery
- (✓) optional
- not available

**Contact for  
Free Demo**

|                                      | testo 870-1   | testo 870-2 |
|--------------------------------------|---|-------------|
| <b>Imager equipment</b>              |   |             |
| Digital camera                       | –   | ✓           |
| Standard lens                        | 34° x 26°   |             |
| IR-JPEG in camera                    | ✓   |             |
| Fullscreen-mode                      | ✓   |             |
| <b>Image storage</b>                 |   |             |
| File format                          | .bmt and .jpg; export options in .bmp, .jpg, .png, .csv, .xls                             |             |
| Memory                               | internal storage (1.6 GB / > 2000 pictures)   |             |
| <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 +50 °C   |             |
| Storage temperature range            | -30 to +60 °C   |             |
| Air humidity                         | 20% to 80% non-condensing   |             |
| Housing protection class (IEC 60529) | IP54  |             |
| Vibration (IEC 60068-2-6)            | 2G  |             |
| <b>Physical specifications</b>       |   |             |
| Weight                               | 550 g   |             |
| Dimensions (L x W x H) in mm         | 219 x 96 x 95 mm  |             |
| Housing                              | PC - ABS  |             |
| <b>PC software</b>                   |   |             |
| System requirements                  | Windows XP (Service Pack 3),<br>Windows Vista, Windows 7, Windows 8<br>Interface: USB 2.0 |             |
| <b>Standards, tests, warranty</b>    |   |             |
| EU Directive                         | 2004 / 108 / EC   |             |
| Warranty                             | 2 years   |             |

### Testo India Pvt Ltd

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