LABORATORY: CNR-INO

NAME OF THE INSTRUMENT

Thermal imager TESTO 890

GENERAL DESCRIPTION:

Thanks to its extremely handling (253 x 132 x 111 mm and weighs <2Kg), the TESTO thermal imager tool available in MOLAB can be used for in situ surveys.
The camera can convert infrared (not visible) into a visible image showing the temperature distribution on the surface of the measured object without direct contact with the object to be analyzed.

Depending on the temperature, a different color is assigned, and the resulting matrix is sent to the memory and to the display of the camera as an image of the temperature (thermal) of the object.

In the field of Cultural Heritage, it is possible to acquire good quality thermograms even at considerable distances, or when a very high thermal resolution of the pixels is needed to detect cracked paintings or wall textures.

With each thermal image, a real, well-lit image can also be captured. The camera can be used in conjunction with the DHSPI holographic system.

TECHNICAL DESCRIPTION:

- Resolution IR 640x480pixel
- Thermal sensitivity (NETD) < 40 mK a +30 °C
- Field of view / Min. focus distance 25° x 19° / 0,2 m (objective 25°)
- SuperResolution 1280 x 960 Pixel / 0,43 mrad (objective 25°)

Figure: termal imager Testo

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