LABORATORY: CNR-ISPC

NAME OF THE INSTRUMENT

Thermal imaging camera T1020 28°

GENERAL DESCRIPTION:

HD thermal imaging camera for thermographic analysis of historical buildings for the purpose of their energy and environmental improvement.

The analysis with these tools allows, in integration with other analyses to identify geometric and material thermal bridges, investigate the emissivity of the materials, support the classification wall typologies and the use of other analyses for the thermophysical characterisation of the materials such as heat flow measurement, identify problems in the laying of materials and discontinuities, investigate the performance of glass and frames (emissivity, differences in thermal resistance, installation errors, air and water infiltrations), study air cracks and water leaks on the envelope and the presence of condensation.

TECHNICAL DESCRIPTION:

Infrared thermal imaging camera with 1024x768 pixels resolution and 0.02° C sensitivity. Camera equipped with 28°x21° lens, temperature range from -40°C to +2000°C; continuous assisted autofocus; built-in compass and GPS.

Additional optics:

- T1020 IR Lens 12° IR lens f=83.4mm (12°) with case (T10XX)
- T1020 IR Lens 45° IR lens f=21.2mm (45°) with case (for T1020)

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