

Ultra-portable thermal cameras for moisture detection

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Thermal imaging technology has grown and costs have decreased exponentially from 1987, when the first portable commercially available radiometric system appeared. Several firms produce nowadays ultra-portable thermal cameras that can be fitted in smartphones and tablets, giving resolutions of thermal images up to 320x240 p at a low cost. This facilitates the use of this tool for practitioners as a part of assessment of the state of conservation of heritage buildings and control and monitoring of conservation measurements. Moisture detection is a particular case in which thermal imaging is useful. This communication presents a case study of ultra-portable thermal camera usage for moisture detection and monitoring in two north-facing chapels in the ambulatory of the 14th to 16th Century Cathedral of Palencia (Spain). [Supported by Top Heritage (P2018/NMT-4372) programe from the Regional Government of Madrid (Spain)]

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