**Applications of aerial thermography in archaeology**

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**Abstract**

This paper is based on a case study conducted at the ancient Kastri-Pandosia site in Greece. The purpose of the study was to use aerial thermal imaging in order to detect differences in composition, density and moisture content, materials on and below the ground surface based on different rates of absorbtion, emition, transmition and reflection thermal infrared radiation. The most impressive result was obtained in the area corresponding to the public Hellenistic building where the lack of vegetation allowed the thermal camera to detect a shallow buried fragment of structure.

**Keywords:** thermography, thermal imaging, archaeological site, infrared radiation

