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THERMOGRAPHY METHOD

Title (de)
THERMOGRAPHIEVERFAHREN

Title (fr)
PROCEDE THERMOGRAPHIQUE

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Abstract (en)
[origin: WO2018209370A1] The invention relates to a method for recording thermal images of a structure (S) to be depicted and arranged under a sample surface (P), comprising a thermal image camera (K) recording the sample surface (P), a source (Q) of electromagnetic radiation for illuminating the structure (S) to be depicted, and comprising an evaluation unit (A) for evaluating the surface measuring data recorded by the thermal image camera (K). To improve the depth resolution, according to the invention, the structure (S) to be depicted is irradiated by means of an unknown structured illumination and therefore heated to achieve improved reconstruction, wherein a plurality of images are used to evaluate the structure (S) and the structure (S) is irradiated by means of a differently structured illumination for each image, and a non-linear iterative evaluation algorithm from the images recorded by the thermal image camera (K), which algorithm utilizes the thin occupancy and the constant location of the heated structure for the differently structured illumination patterns, is used to calculate the structure (S) to be depicted.

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