

Title (en)
HANDHELD PORTABLE OPTICAL SCANNER AND METHOD OF USING

Title (de)
TRAGBARER OPTISCHER HANDSCANNER UND VERFAHREN ZUR VERWENDUNG

Title (fr)
SCANNEUR OPTIQUE À MAIN PORTABLE ET SON PROCÉDÉ D'UTILISATION

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Application
EP 14785573 A 20140416

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Abstract (en)
[origin: WO2014172484A1] A system and method for real-time or near-real time processing and post-processing of RGB-D image data using a handheld portable device and using the results for a variety of applications. The disclosure is based on the combination of off-the-shelf equipment (e.g. an RGB-D camera and a smartphone /tablet computer) in a self-contained unit capable of performing complex spatial reasoning tasks using highly optimized computer vision algorithms. New applications are disclosed using the instantaneous results obtained and the wireless connectivity of the host device for remote collaboration. One method includes steps of projecting a dot pattern from a light source onto a plurality of points on a scene, measuring distances to the points, and digitally reconstructing an image or images of the scene, such as a 3D view of the scene. A plurality of images may also be stitched together to re-position an orientation of the view of the scene.

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