

Title (en)
CALIBRATION SYSTEMS AND METHODS FOR ADDITIVE MANUFACTURING SYSTEMS WITH MULTIPLE IMAGE PROJECTION

Title (de)
KALIBRIERUNGSSYSTEME UND VERFAHREN FÜR SYSTEME ZUR GENERATIVEN FERTIGUNG MIT MEHRFACHBILDPROJEKTION

Title (fr)
SYSTÈMES ET PROCÉDÉS D'ÉTALONNAGE POUR SYSTÈMES DE FABRICATION ADDITIVE PRÉSENTANT DE MULTIPLES PROJECTIONS D'IMAGES

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Abstract (en)
[origin: WO2023007405A1] The present disclosure provides techniques for calibration systems and methods for additive manufacturing systems with multiple image projection. In some embodiments, a method of calibrating two or more image projectors of a photoreactive 3D printing system (PRPS) includes: projecting a sub-image from each of the two or more image projectors; measuring light from an image projector using a light sensor of a calibration system; receiving a signal from the light sensor; processing information from the light sensor; and changing a parameter of a sub-image based on the processed information. In some cases, a PRPS includes a calibration fixture comprising the light sensor. In some cases, a PRPS can be calibrated using a modular calibration fixture comprising the light sensor, wherein the modular calibration fixture can be coupled to the PRPS, leveled and height adjusted, and then a calibration routine can be performed.

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