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Title:Measurement stand for TeraEYE inspection

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Abstract:Image fusion can be used as one of imaging methods. Connection of images acquired using different acquisition methods can deliver information invisible for traditional one imaging technique. Visible and thermal images connected in one image give information about shapes and temperature map of objects seen by cameras. If we connect stereoscopic visible image and thermal image we will have three-dimensional object model covered with temperature map. Dividing three-dimensional objects on elementary surfaces we can model this object energetically. Energetic modeling of measurement scene allows verifying measurement data acquired from devices working in terahertz frequency range. This method requires many measurement scene parameters to be registered. Some of these parameters can be used in a hybrid modelling process.

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