Abstract

A HOLOGRAPHIC MICROSCOPE AND A METHOD OF HOLOGRAPHIC MICROSCOPY

A holographic microscope comprising a source configured to provide a diverging beam of radiation, a beam splitter configured to direct a first portion of the diverging beam towards an object and a second portion of the diverging beam towards a reflector, the beam splitter being further configured to direct an object beam from the object and a reference beam from the reflector towards a transducer, and the transducer being configured to provide a signal indicative of the interference pattern of the object beam and the reference beam incident on the transducer. A method of digital holography is also disclosed.

Fig. 1

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