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holography, with emphasis on microscopy techniques and applications. First, the basic results from the general theory of holography, based on the scalar diffraction theory, are summarized, and a general description of the digital holographic microscopy process is given, including quantitative phase microscopy.

*Principles and techniques of digital holographic microscopy*

Principles and techniques of digital holographic microscopy Myung K. Kim University of South Florida, Department of Physics, 4202 E. Fowler Avenue, Tampa, Florida 33620 mkkim@cas.usf.edu

Abstract. Digital holography is an emerging field of new paradigm in general imaging applications.

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A basic digital holographic microscopy (DHM) setup consists of an illumination source, an interferometer, a digitizing camera, and a computer with necessary programs. Most often a laser

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## *Digital holographic microscopy - Wikipedia*

Digital holographic microscopy (DHM) is an emerging technique for 3-dimensional imaging and tracking of microorganisms [1–5] and for in vitro analysis of cellular and subcellular processes such as ion channel function and apoptosis [7, 8]. Digital holograms measure the interference of a light wave that has been diffracted through a sample and combined with a coherent, non-diffracted reference wave.

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The Holographic Microscopy Principle Holographic microscopy creates (quantitative) phase images by letting a sample beam and a reference beam interfere to create an interference pattern or hologram, as shown in the principle image below. The hologram is recorded by an image sensor and computer-processed to produce the final phase image.

## *Holographic Microscopy | PHI*

A survey is also given of representative application areas, including biomedical microscopy, particle field holography, micrometrology, and holographic tomography, as well as some of the special techniques, such as holography of total internal reflection, optical scanning holography, digital interference holography, and

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some light on the range of possibilities for further developments.

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