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are INSANE!~~

How Holograms are Made

ColorFlare: Metallic \u0026
holographic foiling with
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How 3D holograms work
What happens when you cut a

*hologram in half? ~~What is~~
~~the Holographic Principle?~~*

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Types of Holograms

Holography or how hologram
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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
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*Principles and techniques of
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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
appli-cations.

*Principles and techniques of
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microscopy*

A basic digital holographic
microscopy (DHM) setup
consists of an illumination
source, an interferometer, a
digitizing camera, and a

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process is given, including
quantitative phase
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techniques of digital
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*Digital holographic
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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

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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
heterodyne holography.

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We present a review of a subset of the research and development activities in digital 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.

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the principles of digital holography as well as to give an organized overview of the large number of techniques and applications being developed. This will also shed some light on the range of possibilities for further developments.

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