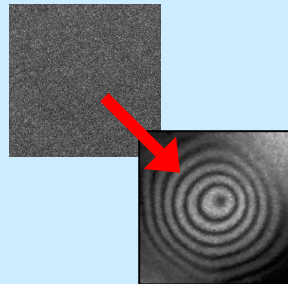


# HDigital©

Digital Holographic Software



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## An overview

HDigital© is an advanced image processing software for numerical reconstruction and processing of digitally sampled holograms (DSH). This software generates double exposure holographic interferograms and does numerical shearing to generate shearograms.

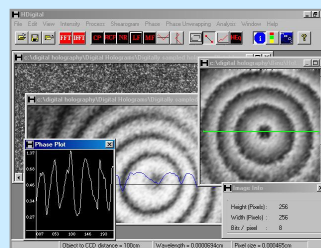
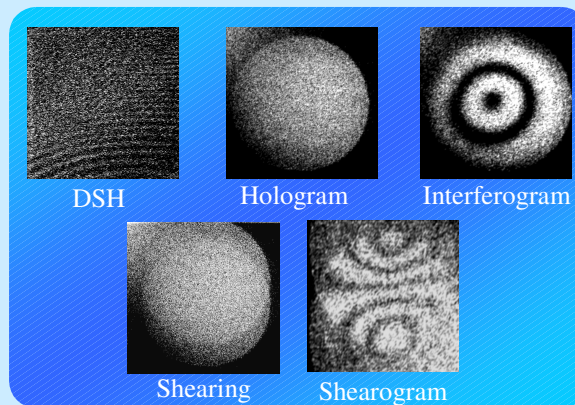
## Features

- ❑ Numerical reconstruction using Fresnel transform method
- ❑ Process bitmap images
- ❑ Generate phase map, intensity map, interferograms and interference phase map
- ❑ Phase unwrapping, phase plot
- ❑ Low pass filter, median pass filter and high pass filter
- ❑ Zoom, intensity plot, histogram plot, equalization, intensity multiplication, image addition, subtraction, contrast variation, interference phase, calculate hologram construction parameters, image cropping etc
- ❑ Numerical shearing and shearograms
- ❑ Automatic generation of interferograms from a set of DSH
- ❑ Automatic storage of interferograms

## Applications

- ❑ Research on digital holography (DH)
- ❑ DH data storage
- ❑ DH interferometry for NDT
- ❑ DH contour generation
- ❑ DH deformation measurement
- ❑ DH shape measurement

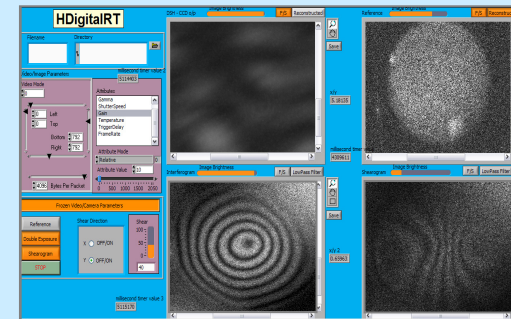
## HDigital output



- ✓ Stand-alone package
- ✓ Multi windows
- ✓ Toolbar menus
- ✓ Dialog boxes
- ✓ WINDOWS platform

## HDigitalRT

- ❑ Real time digital holography version of HDigital
- ❑ Records and reconstruct holograms in real time
- ❑ Process 8,10, 12 & 16 bit images
- ❑ Generates interferograms and shearograms simultaneously
- ❑ Save interferograms in video / bitmap format
- ❑ Retrieval and analysis are very fast
- ❑ LabVIEW environment in WINDOWS platform
- ❑ Access IEEE camera
- ❑ Control of camera / video parameters



### Contact for details

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