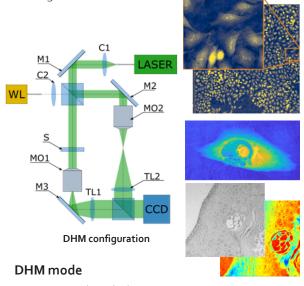




DIGITAL HOLOGRAPHIC MICROSCOPE

DESCRIPTION:

The digital holographic microscope system together with white light mode is efficient tool to marker-free quantitative phase imaging (QPI) and monitoring of biological micro objects: cells and histopatological samples. It provides high resolution optical and phase images with the capability to stitched them into large field of view.

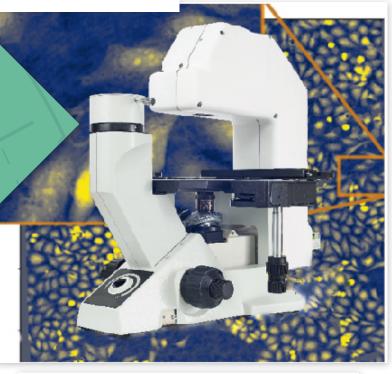


- Image plane hologram
- Phase retrieved with Fourier transform method
- automatic stitching of phases (wide field of view)

White light Mode

Pigtailed white LED

Magnification / NA	16x/o.45
	50x / 0.7
Field of view	440 x 530 µm
	142 X 170 μM
Wavelength	532 μm
Optical resolution	~1.2 µm
Phase resolution	2π/100
Workflow	single capture
	timelapse



APPLICATIONS:

- Cell culture imaging and monitoring
- Digital pathology and hematology
- Navigation through large FoV

ADVANTAGES:

- Label-free
- Low-cost and easy to apply
- Substructures quantitative phase imaging in large field of view
- Easy location due to white light imaging
- TRL7

OPPORTUNITIES:

- Technology/Commercialization
- Research cooperation
- Application oriented software
- Development of systems with special QPI features

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