Introducing

3D Correlative Microscopy, HT-2H

3D holotomography meets **3D fluorescence microscopy**

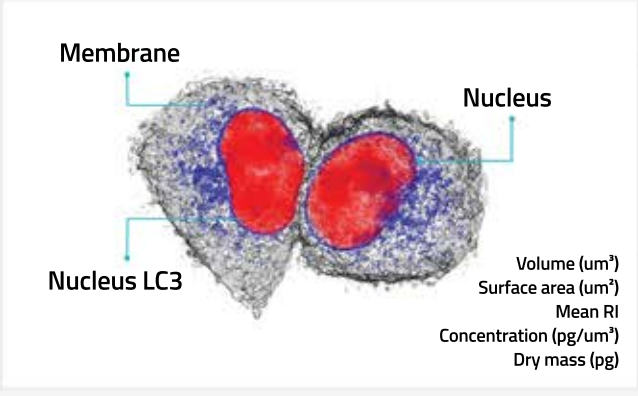
Tomocube is pleased to present the ***HT-2H system*** for holotomography with correlative ***3D fluorescence*** imaging capability

Tomocube

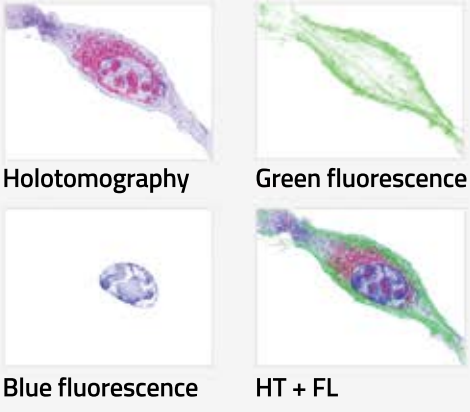
Tomocube, Inc.
4th Floor, 155, Sinseong-ro, Yuseong-gu, Daejeon 34109, Republic of Korea
T +82-42-863-1100 info@tomocube.com www.tomocube.com

3D Holography with fluorescence in live cells opens new doors for cell imaging research

Holotomography



3D Fluorescence



Benefits

01 Correlative microscopy in one instrument

HT-2 provides high-quality 3D images of both holotomography and 3D fluorescence for each sample.

02 Quantitatve data marked with fluorescence

HT-2 provides morphological (volume, surface area, projection area, sphericity and ellipticity), chemical (dry mass, concentration) and mechanical (cell deformability) properties of cells with 3D refractive index (RI) tomogram. Moreover, fluorescence capability provides information about molecular specificity.

03 Live cell molecular and holographic imaging with minimal stress on cells

Simultaneous 3D RI holotomography and fluorescence time-lapse imaging capability allows long-time tracking of specific targets in live cells. The fluorescence image provides the position of specific target organelles and structures in live cells while consecutive 3D RI tomography measurements in time-lapse enables the monitoring of cells and their structures with minimal stress.

Specifications

Spec.	Holotomography	Fluorescence
Lens	60 x	60 x
Light source	532 nm laser	LED (3 channel - DAPI / GFP / mCherry)
Resolution (XY)	Max (110 nm)	Max (220 nm)
3D	Tomogram	Z-stack
Speed	2D : 150 fps, 3D : 2.5 tps	Exposure time: Max 1 sec
Correlative 2D and 3D	2D and 3D	2D and 3D

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