THUNDER Imager Live Cell & 3D Cell Culture & 3D Assay

Leica live cell imaging system with Computational Clearing. It efficiently removes out-of-focus blur in real time, enabling the use of 3D specimens with camera-based fluorescence microscopes. The high sensitivity of the system ensures low phototoxicity and photobleaching, i.e., higher throughput with optimal conditions.

Microscope: DMI8 (inverted)

Fluorescence illuminator: CoolLED pE-4000

Fluorescence filters: multiband dichroic and DAPI, FITC, TRITC, Cy5 emission filters

Objectives: 5x/NA 0.12 PH0 dry - 10x/NA 0.32 PH1 dry - 20x/NA0.4 PH1 dry – 40X/0.6 PH2 dry – 40X/NA1.10 water – 63X/NA1.4 oil

Camera: Leica DFC9000 GTC

Motorized stage (x, y): Quantum high precision scanning stage

Software: LAS X, LAS X 3D analysis, LAS X 3D visualization Advanced

Incubator for live cell imaging: Okolab