

Cell3iMager

По вопросам продаж и поддержки обращайтесь:

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Imaging and Analysis System for 3D Cell Cultures

The Unique Cell3iMager Technology



The Cell3iMager series instruments are imaging systems that capture and analyze 2D and 3D cultured cells at high-speed using SCREEN's unique optical system and image processing technology.

Deep learning analysis allows high-confluence and non-uniform organoid images to be accurately extracted and measured. Detection of cells by their degree of differentiation and cell morphology is enabled with the Deep learning software.

Key Features



Basic Model Cell3iMager Neo CC-3000

- Bright Field Imaging system for 3D culture
- Scanning speed: 60 sec /plate (96well-plate)
- Working distance: Up to 4 MM for 3D culture
- Z-stacking: Omni-focal images created with patented algorithm
- Stationary stage: stationary plate/plate stage

- 3D cell cultures: measure spheroids/organoids up to 500 μ M(height)
- SBS compatibility: 6 - 384 wells, 35 mm dish, 25cm³ Flask
- Variety of software plug-in options



High Throughput Model Cell3iMager duos2

- High-speed whole-well imaging for 96-wells in 1 minute
- Acquire high-quality images near edges of wells
- Moveable optical pathway optimized for preparations which are sensitive to mechanical stage movement
- Automatic production of “omni-focal” z-stack images
- Multicolor fluorescence imaging
- Deep learning-assisted, automatic analysis
- Variety of software plug-in options
- SBS-micro well plate, culture dish, etc.



Infrared Laser Tomography Cell3iMager Estier

- Non-invasive deep tissue imaging
- No markers, No reagents, contamination-free
- Time-lapse observation with optional stage top incubator available
- Allows differentiation of samples by detecting the image contrast originating from variances in the sample's physical density
- Automatic production of “omni-focal” z-stack images
- Deep learning-assisted, automatic analysis
- Variety of software plug-in options
- SBS-micro well plate, culture dish, etc.

Applications

Basic Model Cell3iMager Neo CC-3000

- Phenotypic drug discovery: screening and efficacy evaluation
- Reduction in the tumor volume
- Combinatorial drug testing
- Drug-target discovery and validation
- Quality control
- Toxicological screening: hepatotoxicity

High Throughput Model Cell3iMager duos2

- 2D cell based cell based assays
- Drug screening (testing library of compounds)
- Live and label free cell imaging
- Neurite outgrowth
- Clonal selection, hybridomas
- 3D *in vitro*: drug screening, tumor spheroid-based efficacy
- Toxicity measurement

Infrared Laser Tomography Cell3iMager Estier

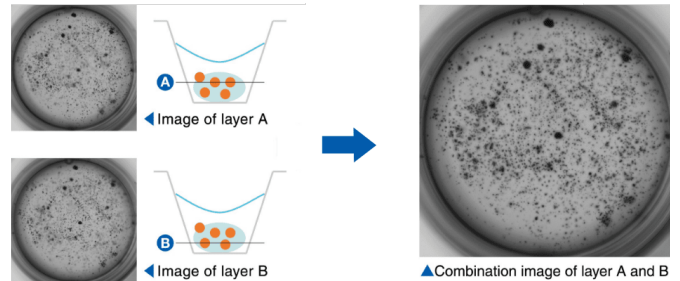
- Expansion of 3D culture aiming at mimicking *in vivo* conditions
- Non-invasive analysis of the 3D structures including microvessels/tubular structures tissues, spheroids and organoids
- Non-invasive deep tissue imaging
- Drug efficacy
- Regenerative medicine
- Quality control

Features

Basic Model | Cell3iMager Neo CC-3000

High-throughput imaging

- ✓ Rapid quantification of 96 wells in 90 seconds
- ✓ High speed imaging and high speed analysis make 3D cultured cell quantification more accurate and efficient.
- ✓ Also supports automation allowing users to build a workflow that suits them, such as scanning first and analysis later.



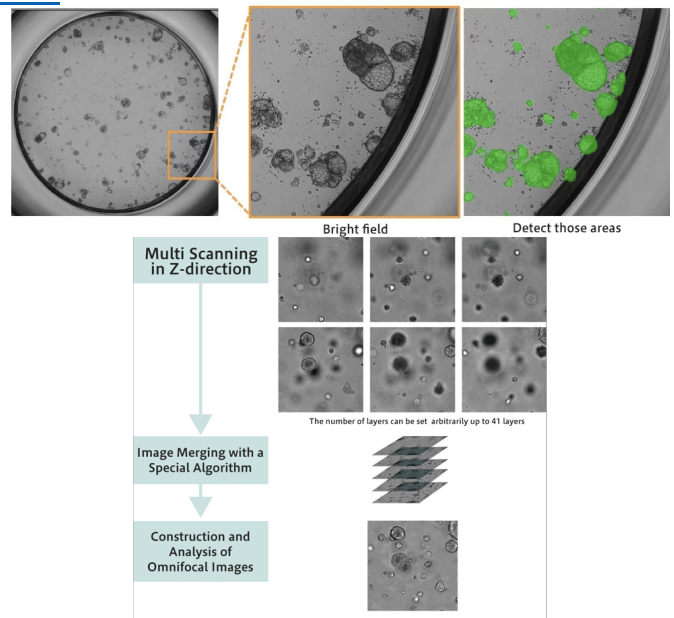
Imaging system specialized for 3D culture

- ✓ All-in-focus images, which are synthesized from images captured at multiple depths of focus, can be used to analyze cells scattered in the thickness direction.
- ✓ Integrating information in the thickness direction allows accurate quantification of three-dimensional cultures, such as agar and floating culture systems.

Hight throughput model | Cell3iMager duos2

Meniscus-less

- ✓ Less meniscus and clear imaging even at the peripheral area
- ✓ Unique hyper-centric and tele-centric optical systems enables high-resolution imaging of whole well including the marginal area of well
- ✓ Lens have 2 resolution which has 0.8um/pix and 4um/pix
- ✓ Equipped with a high accuracy extraction algorithm allowing cell visualization shortly after imaging



3D cellular imaging

- ✓ Equipped with a proprietary lens with a deep depth of field suitable for 3D cultured cell imaging and illumination
- ✓ Z-stacking imaging and focus composition functions
- ✓ Compatible with F-bottom, V-bottom, U-bottom, various SBS formats and microwell plates as standard
- ✓ Functional specialty plates such as plates for 3D culture, Corning® E1plasia® (Corning Japan) and EZSPHERE (AGC Techno Glass Co., Ltd.) are also compatible

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