



AutoLCI

Automated Live Cell Imaging System

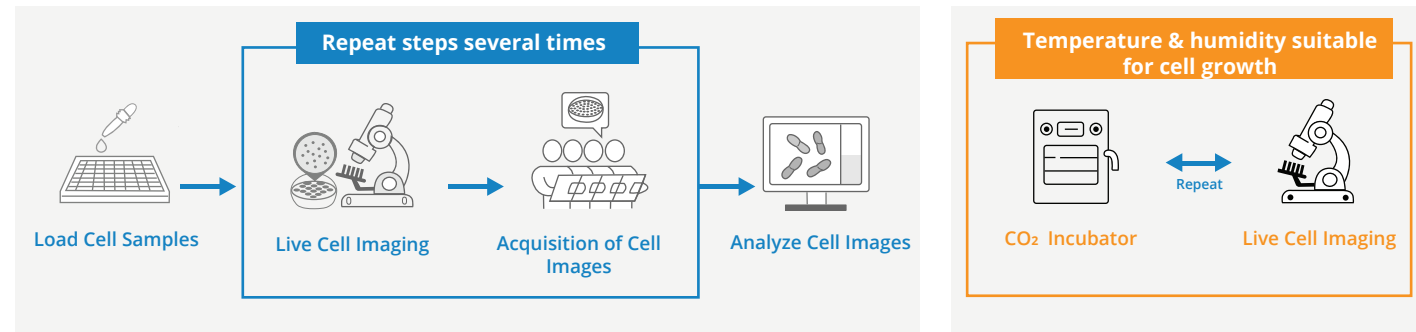
Improve Your Research Productivity with Real-Time Cell Monitoring & Analysis



Real-Time Cell Monitoring & Analysis

World Precision Instruments (WPI) is excited to introduce the AutoLCI, an automated live cell imaging system featuring advanced fluorescence and bright field microscopy, autofocus, and real-time, multi-position imaging technology. The AutoLCI is equipped with state-of-the-art cell imaging technology and user friendly software, enabling various types of research and applications in a streamlined workflow, when compared to the conventional live cell imaging process. Additionally, the AutoLCI was designed to be rigid and robust, withstanding the temperature and humidity suitable for the growth of cells, making it compatible with CO₂ incubators. It provides you all the tools you need to acquire the best quality images and accurate research results. Various cell-based research work and applications can be done with this all-around system.

CONVENTIONAL METHOD OF CELL IMAGING



Disadvantages of Conventional Method

Labor Intensive

Prone to Human Error

Hard to Find Same Position

Unstable Environment

APPLICATIONS



Wound Healing Assay



Cell Migration



Cell Morphology



Cell Confluency



Cell Proliferation



Cytotoxicity Assay



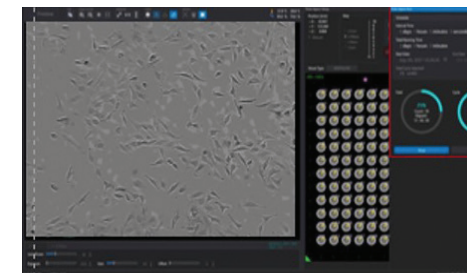
Co-Culture Monitoring



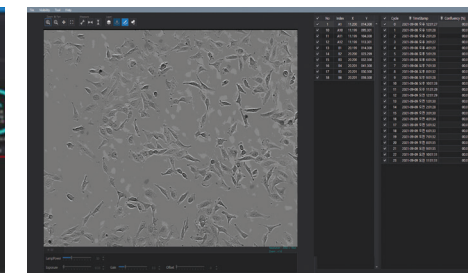
Multi-Point Cell Monitoring



SYSTEM BENEFITS



The *scanning app* uses automated stages that travel, enabling image capture at multiple points within the travel range, and it includes intuitive time-lapse scheduling.



The *analysis app* lets you analyze images taken with the scanning app to determine confluency, take measurements, count cells and more.



The *compact size* lets you easily monitor live cells inside an incubator for an extended time without disturbing the environment required for optimal cell culturing.



FULLY AUTOMATED, MULTI-POSITION IMAGING FOR HIGH RESOLUTION ANALYSIS



COMPATIBLE WITH VARIOUS CELL AND TISSUE CULTURE VESSEL TYPES



COMPACT SIZE THAT EASILY FITS INTO STANDARD CO₂ INCUBATORS



Z-STACKING CAPTURES MULTI-FOCAL PLANES FOR HIGH DYNAMIC RANGE IMAGES



STITCHING COMBINES IMAGES FOR ANALYSIS OF HIGH RESOLUTION COMPOSITE



INCREASED FOCUS SPEED AND REPRODUCIBILITY WITH RELIABLE AUTOFOCUSING FUNCTION



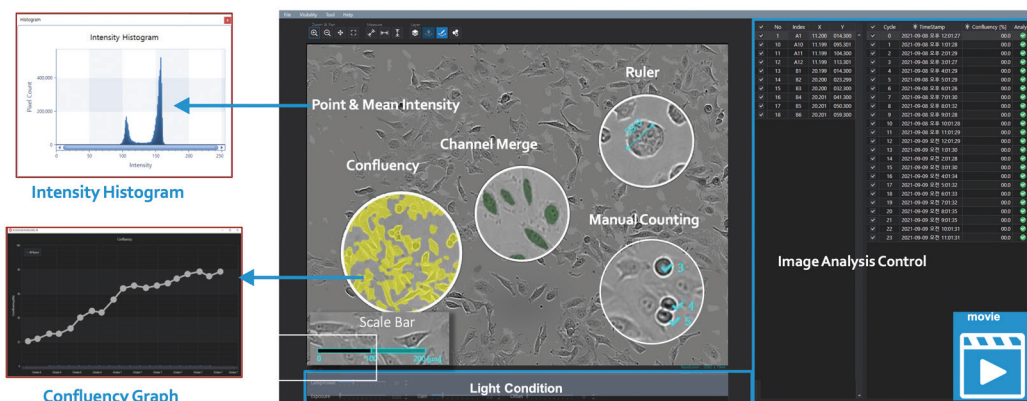
INTUITIVE INTERFACE TO CAPTURE & ANALYZE DATA

USER-FRIENDLY SOFTWARE

Analysis Application

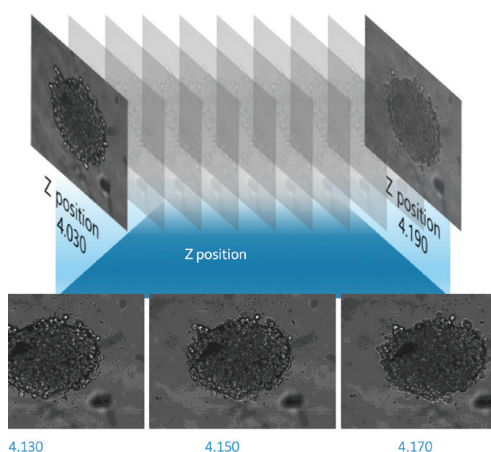
A variety of tools in the analysis application simplify the analytic process, reducing errors and saving time.

- Intensity Histograms
- Confluency Graphs
- Channel Merge
- Video Creation
- Manual Counting
- Measurement
- More



Scanning Application

The scanning application is used for capturing images. You can preview cells, schedule image capture, adjust light and contrast, and monitor time lapse progression from one intuitive screen. It includes auto-focusing technology that finds a clear focal plane of cells and has excellent repeatability.



With the Z-stacking function, where images of multiple planes of focus are merged, spheroid cells can be clearly observed under time-lapse imaging.

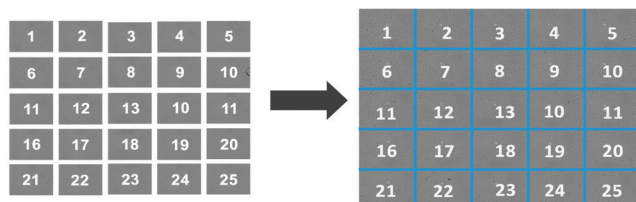


Image stitching lets you capturing multiple images and combine the overlapping parts to enable high-resolution mapping of a large sample area.

SPECIFICATIONS

Dimension	226 x 358 x 215 mm
Weight	5.6kg/12.3lb
Objective Lens	4x/10x
Imaging Modes	Brightfield, Fluorescence (Green/Red)
Fluorescence	Green: Excitation (470/40x) Emission (510lp) Red: Excitation (510/84x) Emission (570lp)
Light Source	LED
Camera	5MP CMOS
File Export Format	TIFF, AVI, JPEG, PNG
Operating Environment	10~40°C, 20~95% humidity
Power Requirements	100-240V, ~50/60Hz
Output Ports	Ethernet
Computer (recommendation)*	Win10, 1TB Storage, 1920*1080 pixel Monitor

*Computer is required for AutoLCI Scan and AutoLCI Analysis software, but is not included.

Specifications are subject to change without notice.

UNITS & ACCESSORIES

AUTOLCI-BF4	AutoLCI, Brightfield, 4X Magnification
AUTOLCI-BF10	AutoLCI, Brightfield, 10X Magnification
AUTOLCI-BFGF4	AutoLCI Brightfield, 4X Magnification, with Green Fluorescence
AUTOLCI-BFGF10	AutoLCI, Brightfield, 10X Magnification, with Green Fluorescence
AUTOLCI-BFRF4	AutoLCI, Brightfield, 4X Magnification, with Red Fluorescence
AUTOLCI-BFRF10	AutoLCI, Brightfield, 10X Magnification with Red Fluorescence
505626	Attachment for T-Flask A25cm ² , Single
505627	Attachment for T-Flask A75cm ² , Single
505628	Attachment for 35 mm FluoroDish, Dual
505629	Attachment for 60 mm Dish, Dual
505630	Attachment for 90 mm Dish, Single

WORLD PRECISION INSTRUMENTS

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