# EVOM™ AutoLCI

## Automated Live Cell Imaging System

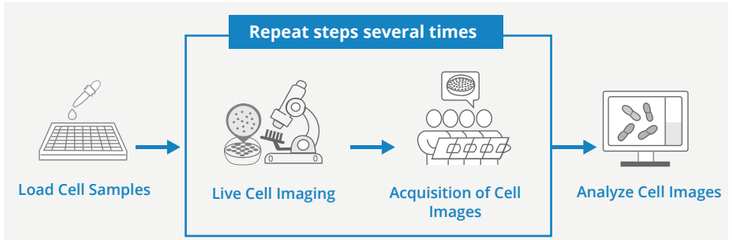
Improve Your Research Productivity with Real-Time Cell Monitoring & Analysis

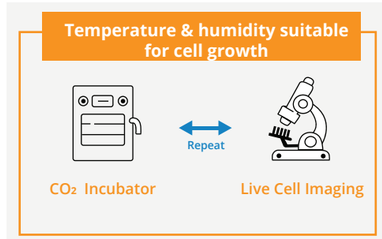

www.wpiinc.com/autolci

# Real-Time Cell Monitoring & Analysis

World Precision Instruments (WPI) is excited to introduce the EVOM™ AutoLCI, an automated live cell imaging system featuring advanced fluorescence and bright field microscopy, autofocusing, and real-time, multi-position imaging technology. The EVOM™ 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 EVOM™ AutoLCI was designed to be rigid and robust, withstanding the temperature and humidity suitable for the growth of cells, making it compatible with $CO_2$ 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

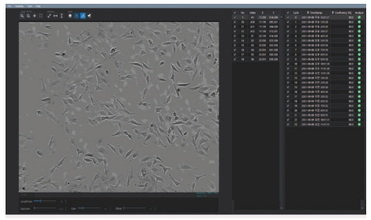
- Labor Intensive
- Prone to Human Error
- Hard to Find Same Position
- Unstable Environment

## APPLICATIONS

- Wound Healing Assay
- Cell Migration
- Cell Morphology
- Cell Confluency
- Cell Proliferation
- Cytoxicity 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, and video capture at 8 fps.*



*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.*

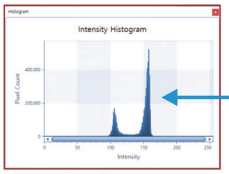
- **FULLY AUTOMATED, MULTI-POSITION IMAGING FOR HIGH RESOLUTION ANALYSIS**
- **COMPATIBLE WITH VARIOUS CELL AND TISSUE CULTURE VESSEL TYPES**
- **COMPACT SIZE THAT EASILY FITS INTO STANDARD $CO_2$ INCUBATORS**
- **Z-STACKING CAPTURES MULTI-FOCAL PLANES FOR HIGH DYNAMIC RANGE IMAGES**
- **STITCHING COMBINES 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

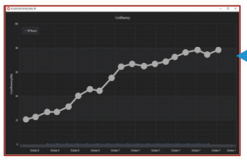
### *Analysis Application*

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

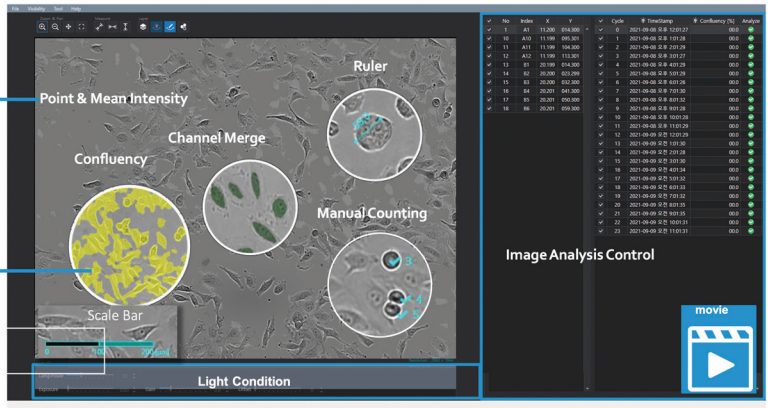
- Intensity Histograms
- Confluency Graphs
- Channel Merge
- Video Creation
- Manual Counting
- Measurement
- More




Intensity Histogram

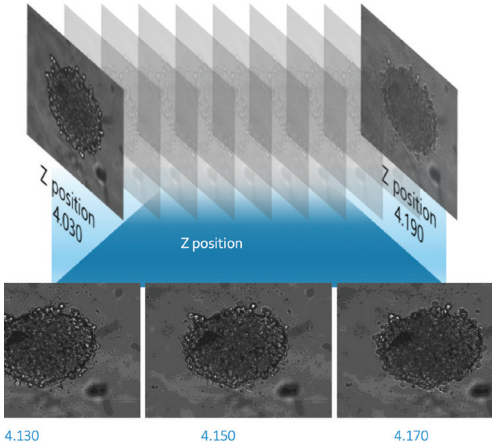


Confluency Graph




### *Scanning Application*

The scanning application is used for capturing images and video. 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. Video capture is available at 8 frames/second.




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

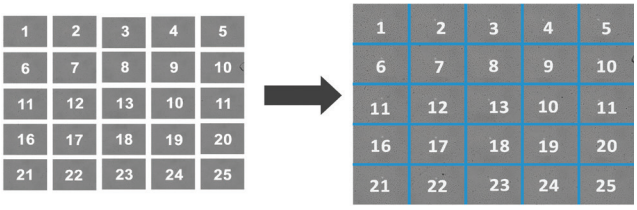



Image stitching lets you capturing multiple images and combine the overlapping parts to enable high-resolution mapping of a large sample area.

## SPECIFICATIONS

| | |
|---|---|
| Dimension | 226 x 358 x 215 mm |
| Weight | 5.6kg/12.3lb |
| Objective Lens | 4×/10× |
| Imaging Modes | Brightfield, Fluorescence (Green/Red) |
| Fluorescence | Green: Excitation (470/40x) Emission (510lp)<br>Red: Excitation (510/84x) Emission (570lp) |
| Light Source | LED |
| Camera | 5MP CMOS |
| Video Capture | 8 Frames/Second |
| 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

| | |
|---|---|
| EVI-LCI-01-01 | EVOM AutoLCI, Brightfield, 4X Magnification |
| EVI-LCI-01-02 | EVOM AutoLCI, Brightfield, 10X Magnification |
| EVI-LCI-01-03 | EVOM AutoLCI Brightfield, 4X Magnification, with Green Fluorescence |
| EVI-LCI-01-04 | AutoLCI, Brightfield, 10X Magnification, with Green Fluorescence |
| EVI-LCI-01-05 | EVOM AutoLCI, Brightfield, 4X Magnification, with Red Fluorescence |
| EVI-LCI-01-06 | AutoLCI, Brightfield, 10X Magnification with Red Fluorescence |
| EVI-LCI-01-07 | Attachement for Well Plate |
| 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 |
| 505632 | Attachment for T- Flask A75cm$^2$, Dual |
| 505633 | Attachment for Biochip, Triple |


WORLD PRECISION INSTRUMENTS

**United States**: (866) 606-1974 · wpi@wpiinc.com · **www.wpiinc.com**
**UK**: +44 (0)1462 424700 · wpiuk@wpi-europe.com · **www.wpi-europe.com**
**Germany:** +49 (0)6031 67708-0 · wpide@wpi-europe.com · **www.wpi-europe.com**
**China:** +86 21 6888 5517 · chinasales@china.wpiinc.com · **www.wpiinc.net**