

050-6302042 :M 07-654-30204 :T 07-654-30206 :F

ח.פ.: 515356400

## Cell counter

# LUNA-II<sup>™</sup> Automated Cell Counter

LUNA-II<sup>™</sup> Automated Cell Counter Fully automated cell counting and cell viability analysis Autofocus technology for fast and reliable cell counting Various histograms and cell-size gating Unmatched counting accuracy and speed Built-in computer The most affordable running cost currently on the market

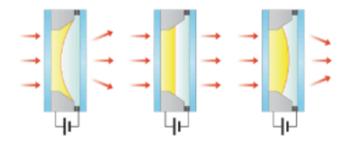
## **NEW AUTOFOCUSING TECHNOLOGY**

The LUNA-II<sup>™</sup> automated cell counter has integrated a novel focusing mechanism based on liquid lens technology.

The liquid lens does not use any mechanical moving parts to change the Z stage. Instead, the Z position of the sample is rapidly, obtained by the application of a small voltage to the liquid lens. The elimination of moving parts removes noise and significantly

reduces the need for servicing. Even after multi-million cycles of focusing, the liquid lens does not require repair or service.

In combination with this novel focusing mechanism, the LUNA-II<sup>™</sup> has integrated a new autofocusing algorithm optimized for cell counting.



## **CELL COUNTING ACCURACY: DE-CLUSTERING**

The LUNA-II<sup>™</sup> automated cell counting algorithm has been recognized to have the best-inclass cell counting accuracy.

The LUNA<sup>™</sup> software has exceptional accuracy in cell de-clustering and can successfully count clumpy cells. The LUNA-II<sup>™</sup> automated cell counter has inherited this well-known performance aspect of the LUNA<sup>™</sup> software. Clumpy cells are de-clustered quickly and automatically, then counted as individual cells.

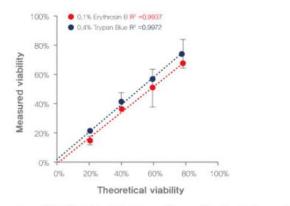
### CITRINE Solutions Software & Equipment Solutions for organizations & laboratories

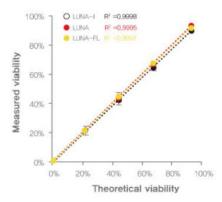


ח.פ.: 515356400

### **ERYTHROSIN B AND TRYPAN BLUE-COMPATIBLE**

Although the LUNA-II<sup>™</sup> can detect and count unstained cells, viability information can only be obtained from stained cell solutions. The traditional trypan blue can be used with the LUNA-II<sup>™</sup>, as well as the safer Erythrosin B. Both dyes produce consistently accurate cell count and viability data with the LUNA-II<sup>™</sup>.





A Comparison of Viability Data Using Trypan Blue and Erythrosin B

Viability Data Using Erythrosin B with the LUNA-II, LUNA, and LUNA-FL

### INTERACTIVE SOFTWARE INTERFACE

#### **Options for staining methods**

The LUNA-II<sup>™</sup> automated cell counter can count samples with or without trypan blue dye. The selection of trypan blue presence or absence can easily be chosen in the settings menu.

### Cell size histogram and cell size based gating

After counting, cells can be gated based on their size information provided by the LUNA-II<sup>™</sup>. The specific size of cell populations Can easily be included or excluded on histograms.

#### **Cell cluster map**

Counted cells can be sorted with cell cluster map, into single cells, doublets, or triplets. The cell cluster map can be used to monitor changes in culture conditions or cell isolation/preparation protocols.

#### **Review and Re-analysis option**

The LUNA-II<sup>™</sup> automated cell counter provides a powerful review option. A separate PC unnecessary. Users can open cell images directly on the LUNA-II<sup>™</sup> automated cell counter to check previous results.

#### Various file save options

The LUNA-II<sup>™</sup> can store up to 1,000 counts onboard. After counting, the result is automatically saved in the memory, and previous count results can be exported **via USB as CSV file** for further analysis.

#### CITRINE Solutions Software & Equipment Solutions for organizations & laboratories



050-6302042 :M 07-654-30204 :T 07-654-30206 :F

ח.פ.: 515356400

The results and **image data** can be saved in three different file formats such as **TIF**, **annotated TIF**, or a **PDF** report file.

The PDF report file contains all the data generated during/after the cell counting, i.e., the protocol used, cell counting results, date, raw/analyzed cell image(s), and histograms are included in the PDF report file.





