

LUNA II™

Automated Cell Counter



LUNA-II™

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The LUNA-II™ automated cell counter is the most advanced cell counter today with unmatched speed, accuracy, and consistency of measurement. It is a stand-alone instrument integrating precision microscopy optics, onboard computer, image analysis software, autofocus system, and built-in printer. The LUNA-II™ automated cell counter accurately detects total/live/dead cells at concentrations ranging from 5×10^4 to 1×10^7 cells/ml and cell sizes between 3 and 60 μm .

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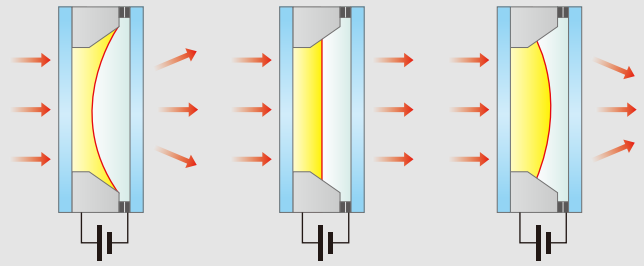
New Autofocusing Technology

The LUNA-II™ 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.

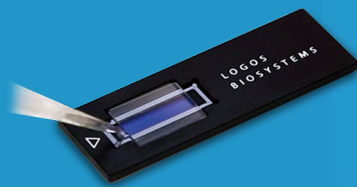
Instead, the Z position of the sample is rapidly obtained by the application of a small voltage to the liquid lens. The elimination of moving parts removes noise and significantly reduces the need for servicing. Even after multi-million cycles of focusing, the liquid lens does not require repair or service.

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



Reduced Counting Costs, Increased Convenience

Cost efficient: Designed for cost-efficient and accurate cell counting, the LUNA™ Reusable Slide has the affordability of manual cell counting without the associated subjectivity and time.



Convenient: LUNA™ Cell Counting Slides offer the ultimate counting experience. With no mess or cleanup, these disposable precision slides maintain the highest standard of cell counting accuracy.



Built-In Printer

A thermal printer is integrated in the LUNA-II™ automated cell counter, and the counting results can be printed immediately for record keeping purposes. Because the printer is already integrated in the LUNA-II™ automated cell counter, an additional cable connection is not required.

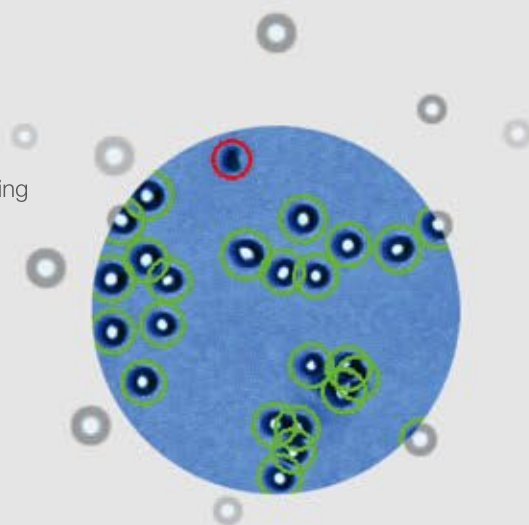




- Fully automated cell counting and cell viability analysis
- Autofocus technology for fast and reliable cell counting
- Dye exclusion-based or unstained cell counting methods
- Various histograms and cell-size gating
- Unmatched counting accuracy and speed
- Built-in computer and printer
- The most affordable running cost currently on the market

Cell Counting Accuracy: De-clustering

The LUNA™ cell counting algorithm has been recognized to have the best-in-class cell counting accuracy. The LUNA™ software has exceptional accuracy in cell de-clustering and can successfully count clumpy cells. The LUNA-II™ automated cell counter has inherited this well-known performance aspect of the LUNA™ software. Clumpy cells are de-clustered quickly, as well as automatically and counted as individual cells.



Interactive Software



► Options for staining methods

The LUNA-II™ automated cell counter can count samples with or without staining. Users may select to stain cells with trypan blue or Erythrosin B for cell viability data.

► Cell size histogram and cell size based gating

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

► Cell cluster map

Counted cells are identified using the cell cluster map, which displays the percentage of 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™ automated cell counter provides a powerful review and re-analysis option. To open and review the saved image, a separate PC is not necessary. Users can open the cell images directly on the LUNA-II™ automated cell counter, and can count cells again using the different parameters.

► Various file save options

The LUNA-II™ has an on-board memory to store up to 1,000 counts. After counting, the result is automatically saved in the memory, and the previous count results can be exported via the USB port as a .CSV file for further analysis. The results and image data can be saved as three different file formats such as a TIF, an 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.



Specifications

Cell Counting Time	Less than 10 s (manual focusing), less than 15 s (autofocusing)
Cell Concentration Range	5×10^4 - 1×10^7 cells/ml
Cell Size Range	3-60 μm (optimal : 8-30 μm)
Cell Viability Range	0-100 %
Image Resolution	5 MP
Image Type	TIF, annotated TIF
Report	PDF format
Dimensions (WxDxH)	16 x 18 x 28 cm (6.3x7.0x11.0 in)
Weight	1.6 kg (3.5 lb) *without the AC adapter and power cord
Operating Power	100~240 VAC, 1.2 A
Frequency	50/60 Hz
Electrical Input	12 VDC, 3.3 A

Ordering Information

Cat#	Product	Size
L40001	LUNA-II™ Automated Cell Counter (with printer)	1 unit
L40002	LUNA-II™ Automated Cell Counter (without printer)	1 unit
L12001	LUNA™ Cell Counting Slides, 50 slides (100 counts)	1 box
L12002	LUNA™ Cell Counting Slides, 500 slides (1,000 counts)	10 boxes
L12003	LUNA™ Cell Counting Slides, 1,000 slides (2,000 counts)	20 boxes
L12011	LUNA™ Reusable Slide	1 unit
L12012	LUNA™ Reusable Slides	2 units
L12014	LUNA™ Reusable Slide Coverslips	10 units
T13001	Trypan Blue Stain, 0.4%	2 x 1 mL
L13002	Erythrosin B Stain	2 x 1 mL
B13101	LUNA™ Standard Beads	2 x 1 mL
U10005	USB Drive, 16 GB	1 unit
P12002	LUNA-II™ Printer Paper - thermal, 700 prints	2 x 5 rolls

Cell Line Validated

Cell Type	Animal	Organ
A375-c5	Human	Skin
A431	Human	Skin
A549	Monkey	Lung
CHO	Chinese Hamster	Ovary
CHSE	Fish	Embryo
COLO-205	Human	Colon
Cos-7	Human	Kidney
DAUDI	Human	Blood
ESC	Mouse	Embryo
HEK-293	Human	Kidney
HeLa	Human	Cervix
HepG2	Human	Liver
HESC	Human	Embryo
HL-60	Human	Blood
HS578T	Human	Breast
Jurkat	Human	Blood
MCF7	Human	Breast
MDA-MB-231	Human	Breast
MIA PaCa-2	Human	Pancreas
MOLT-4	Human	Blood
MRC-5	Human	Lung
Neuro 2A	Mouse	Brain
NIH/3T3	Mouse	Embryo
NSC	Rat	Brain
PLC/PRF/5	Human	Liver
RKO	Human	Colon
SUM149PT	Human	Breast
THP-1	Human	Blood
UWB1-289	Human	Ovary
U-2 OS	Human	Bone



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