

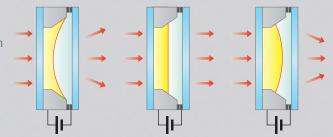
The LUNA-II<sup>™</sup> automated cell counter is the most advanced cell counter today with unmatched speed, accuracy, and consistency of measurement. It is a stand-alone instrument integrating precision microscopy optics, onboard computer, image analysis software, autofocus system, and built-in printer.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



# 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<sup>™</sup> has integrated a new autofocusing algorithm optimized for cell counting.



# Compatible with the LUNA<sup>™</sup> Reusable Slide And LUNA<sup>™</sup> Cell Counting Slides

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



**Convenient:** LUNA<sup>™</sup> Cell Counting Slide 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

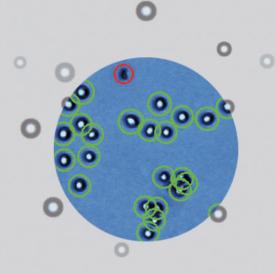
A thermal printer is integrated in the LUNA-II<sup>™</sup> automated cell counter, and the counting results can be printed immediately for record keeping purposes. Because the printer is already integrated in the LUNA-II<sup>™</sup> automated cell counter, an additional cable connection is not required.



- Fully automated cell counting and cell viability analysis
- Autofocus technology for fast and reliable cell counting
- Trypan blue cell counting 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: Declustering

The LUNA<sup>™</sup> 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 declustered quickly, as well as automatically and counted as individual cells.



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# Interactive Software



### 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 be easily chosen in the settings menu.

### 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.

#### 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 be easily included or excluded on histograms.

### ▶ Review and Re-analysis option

The LUNA-II<sup>™</sup> 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<sup>™</sup> automated cell counter, and can count cells again using the different parameters.

### Various file save options

The LUNA-II<sup>™</sup> 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 <sup>4</sup> - 1×10 <sup>7</sup> 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 (W×D×H)	16 × 18 × 28 cm (6.3 × 7.0 × 11.0 in)
Weight	1.6 kg (3.5 lb) *without the AC adaptor 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	1 box
L12002	LUNA <sup>™</sup> Cell Counting Slides, 500 Slides	10 boxes
L12003	LUNA™ Cell Counting Slides, 1000 Slides	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, 830 prints/roll, 10 rolls)	2 x 5 rolls

#### A431 Human Skin A549 Monkey Lung CHO Chinese Hamster Blood CHSE Fish Embryo COLO-205 Human Colon Cos-7 Human Kidney DAUDI Human Ovary Mouse ESC Embryo Kidney HEK-293 Human HeLa Human Cervix Human Liver HepG2 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 Blood Human MRC-5 Human Lung Neuro 2A Mouse Brain NIH/3T3 Embryo Mouse Rat NSC 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

**Cell Line Validated** 

Animal

Human

Organ

Skin

Cell Type

A375-c5



#### HEADQUARTERS

FL 3 28 Simindaero 327beon-gil, Dongan-gu Anyang-si, Gyeonggi-do 14055 South Korea

Tel Fax E-mail : info@logosbio.com

7700 Little River Turnpike STE 207 Annandale, VA 22003 USA

: +1 (703) 622-4660, +1 (703) 942-8867 : +1 (571) 266-3925 Tel Fax E-mail : info-usa@logosbio.com

1 allée Lavoisier 59650 Villeneuve d'Ascq France

Tel : +33 (0)3 74 09 44 35 Fax : +33 (0)3 59 35 01 98 E-mail : info-france@logosbio.com

www.logosbio.com LBSM-RD-BR-LUG-001

: +82-31-478-4185 : +82-31-478-4277