

# Luna™

## Second Generation Automated Cell Counter

Luna™ is an automated cell counter that accurately measures cell number and viability for various purposes.

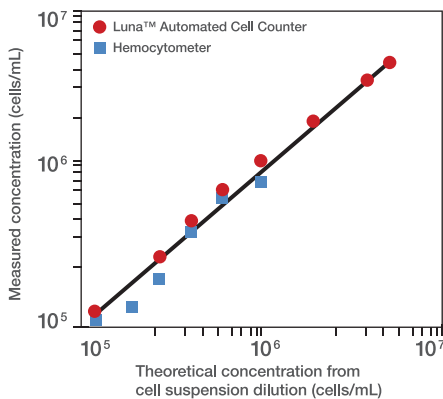
Incorporating many innovations introduced by Logos Biosystems, Luna™ provides you with an accurate, fast, easy and affordable cell counting experience. Accelerate your research with the most advanced technology.



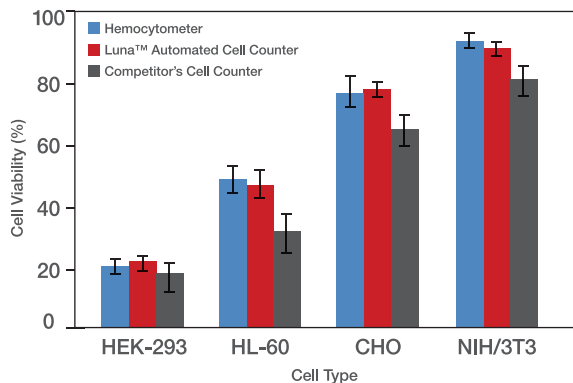
# The Luna<sup>TM</sup> Automated Cell Counter.



## Advanced Accuracy



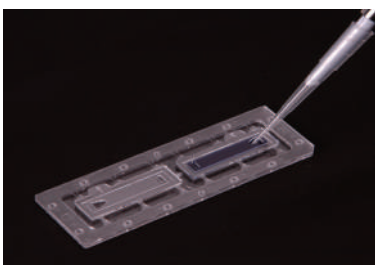
The LUNA<sup>TM</sup> produces accurate cell counts across an extended range of cell concentrations.



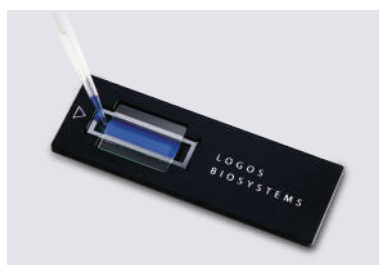
The LUNA<sup>TM</sup> produces accurate viability results. The hemocytometer and Luna<sup>TM</sup> showed excellent correlation with no statistically significant differences.

The Luna<sup>TM</sup> automated cell counter gives you accurate live/dead cell counting results within 7 seconds. Based on its precision optics and new software algorithm, cell counting accuracy is unsurpassed. Within a  $5 \times 10^4 - 1 \times 10^7$  cells/mL concentration range and 3 - 60  $\mu\text{m}$  cell diameter, Luna<sup>TM</sup> software accurately distinguishes live and dead cells from debris. The cell in clusters are also successfully counted as individual cells with Luna's declustering algorithm.

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



LUNA<sup>TM</sup> Cell Counting Slide



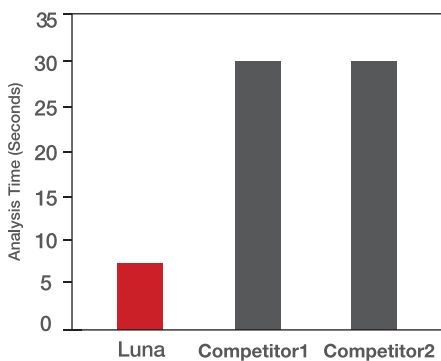
LUNA<sup>TM</sup> Reusable Slide

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

**Convenient:** LUNA<sup>TM</sup> 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.

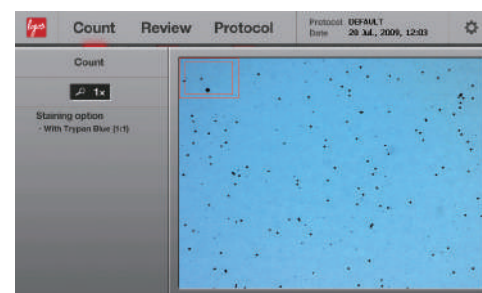


## Less than 7 seconds to results



All image-based cell counters utilize image analysis software to extract and analyze live/dead features of cells. During this analysis process, color information is changed to binary (black & white) information, and the features such as brightness, circularity, and diameter are extracted and analyzed. With old algorithms, this process usually takes more than 30 seconds. However, Luna™ has integrated faster computing power and the most advanced cell detection algorithm to reduce the analysis time. It only takes less than 7 seconds by Luna™ cell counter, which is about 5 times faster than other cell counters.

## Interactive Software Interface



### On-board Monitoring

Cell counting results can be monitored immediately on the LCD screen of Luna™ cell counter.

### On-board Monitoring

After you performed the cell counting, you can immediately monitor which cells are counted as live or dead on the Luna™ cell counter screen. Green and red circles indicates each live and dead cell. You don't need additional PC software to check the counting results.

### Re-analysis Options

The cell counting results can be saved as a high resolution TIFF image file and/or pdf-format report file to the USB drive. Luna™ cell counter provides re-analysis options for the saved image files. Whenever you want to perform the re-counting, you can do it again and again with the saved cell images.



## Faster, Smarter, Lowest Maintenance Cost

The Luna™ automated cell counter is a stand-alone compact instrument operated by touch screen interface. Its interactive operation by finger gesture will let you easily obtain accurate cell counting results.



## Specifications

Cell Counting Time	< 7 sec
Cell Concentration Range	5×10 <sup>4</sup> - 1×10 <sup>7</sup> cells/mL
Cell Size Range	3-60µm
Cell Circularity Range	30-60 %
Cell Viability Range	0-100 %
Image Resolution	5MP
Image Type	TIF
Software	Luna™ software
Report	PDF report
Dimensions (WxDxH)	22 × 21 × 9 cm (8.6 × 8.3 × 3.5 in)
Weight	1.2 kg (2.6 lb) *without the AC adapter and power cord
Operating Power	100-240 VAC, 1.5A
Frequency	50/60 Hz
Electrical Input	12 VDC, 3.5 A

## Ordering Information

Cat#	Product	Quantity
L10001	LUNA™ Automated Cell Counter	1 unit
L12001	LUNA™ Cell Counting Slides, 50 slides	1 box
L12002	LUNA™ Cell Counting Slides, 500 slides	10 boxes
L12003	LUNA™ Cell Counting Slides, 1,000 slides	20 boxes
L12011	LUNA™ Reusable Slide	1 unit
L12012	LUNA™ Reusable Slides	2 unit
L12014	LUNA™ Reusable Slide Coverslips	10 units
B13001	LUNA™ Standard Beads	2 x 1mL
T13001	Trypan Blue Stain, 0.4%	2 x 1mL
L13002	Erythrosin B Stain	2 x 1mL
P10001	LUNA™ Printer	1 unit
P12001	LUNA™ Printer Paper - thermal, 700 prints	3 x 2 rolls
P13001	LUNA™ Printer Cleaning Pen	1 unit
U10004	USB Drive, 16 GB	1 unit

## Cell Lines Validated

On The Luna™ Automated Cell Counter

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
HSS78T	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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