

# Luna<sup>TM</sup>

## Second Generation Automated Cell Counter

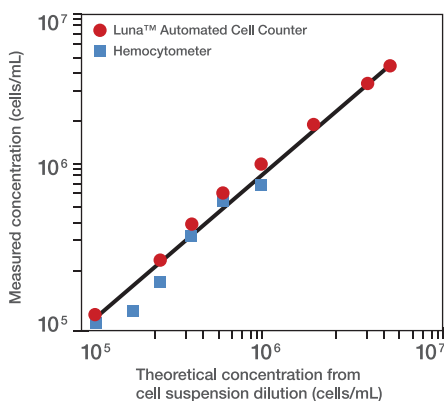
Luna<sup>TM</sup> is an automated cell counter that accurately measures cell number and viability for various purposes.

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

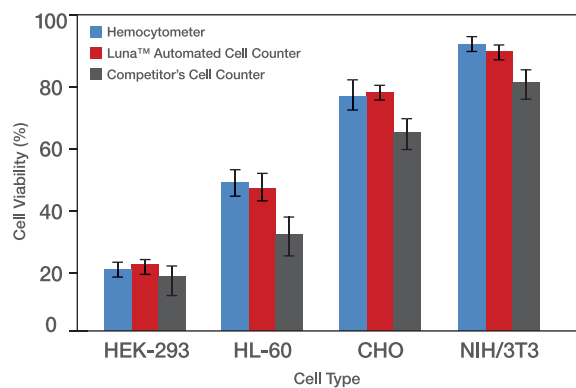


# The **All-New** Automated Cell Counter.

## Advanced Accuracy



The Luna™ automated cell counter demonstrates accurate cell counts across an extended range of cell concentrations.



The Luna™ automated cell counter demonstrates accurate viability result. The hemocytometer and Luna™ cell counter showed an excellent correlation without statistically significant differences.

The Luna™ automated cell counter gives you the accurate live/dead cell counting results within 7 seconds. Based on the precision optical design and the new software algorithm, cell counting accuracy is unsurpassed. Within a  $5 \times 10^4 \sim 1 \times 10^7$  cells/ml concentration range and  $3 \sim 60 \mu\text{m}$  cell diameter, Luna™ software accurately detects live/dead cells, and discriminates cell debris. Individual cells in cell clusters are also successfully counted by Luna's new de-clustering algorithm.



Luna™ Cell Counting Slide

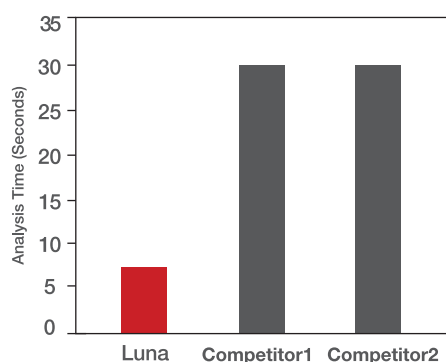
The patent-pending design of the Luna™ counting slides has precise chamber height and evenly distributes the cells throughout the chamber.

## Minimal Counting Cost

Automated cell counters utilize disposable counting slides to eliminate washing steps of manual cell counting with glass hemocytometer. Logos Biosystems has developed innovative T-Bond technology (patent-pending) to manufacture the precision cell counting slides more efficiently. The unit price of the slide is almost half of the other brands, saving significant consumable costs for heavy users.



## Shortest Time To Result, less than 7 Seconds



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

<b>Cell counting time</b>	< 7 sec
<b>Cell concentration range</b>	$5 \times 10^4 \sim 1 \times 10^7$ cells/ml
<b>Cell size range</b>	3 ~ 60 $\mu$ m
<b>Cell circularity range</b>	30 ~ 60 %
<b>Cell viability range</b>	0 ~ 100 %
<b>Image resolution</b>	5 mega pixel ( 5MP )
<b>Image type</b>	TIF
<b>Software</b>	Luna™ software
<b>Reporting</b>	PDF format report
<b>Dimensions (W x D x H)</b>	22 x 21 x 9 cm (8.6 x 8.3 x 3.5 inch)
<b>Weight</b>	1.2 kg ( 2.6 lb) (without the external power adaptor)
<b>Operating power</b>	10 ~ 240 VAC, 1.5 A
<b>Frequency</b>	50 / 60 Hz
<b>Electrical input</b>	12 VDC, 3.5 A
<b>Instrument type</b>	Benchtop cell counter

## Ordering Information

Cat#	Product	Quantity
L10001	Luna™ Automated Cell Counter	Each
L12001	Luna™ Cell Counting Slides	50 slides (100 counts)
L12002	Luna™ Cell Counting Slides	500 slides (1,000 counts)
L12003	Luna™ Cell Counting Slides	1,000 slides (2,000 counts)
T13001	Trypan blue stain 0.4% for use with Luna™ automated cell counter	2 X 1 ml
B13101	Luna™ Standard Bead, Concentration(avg.) $1.0 \times 10^6$	2 X 1 ml



biosystems

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## Cell Lines Validated

On The Luna™ Automated Cell Counter

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

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