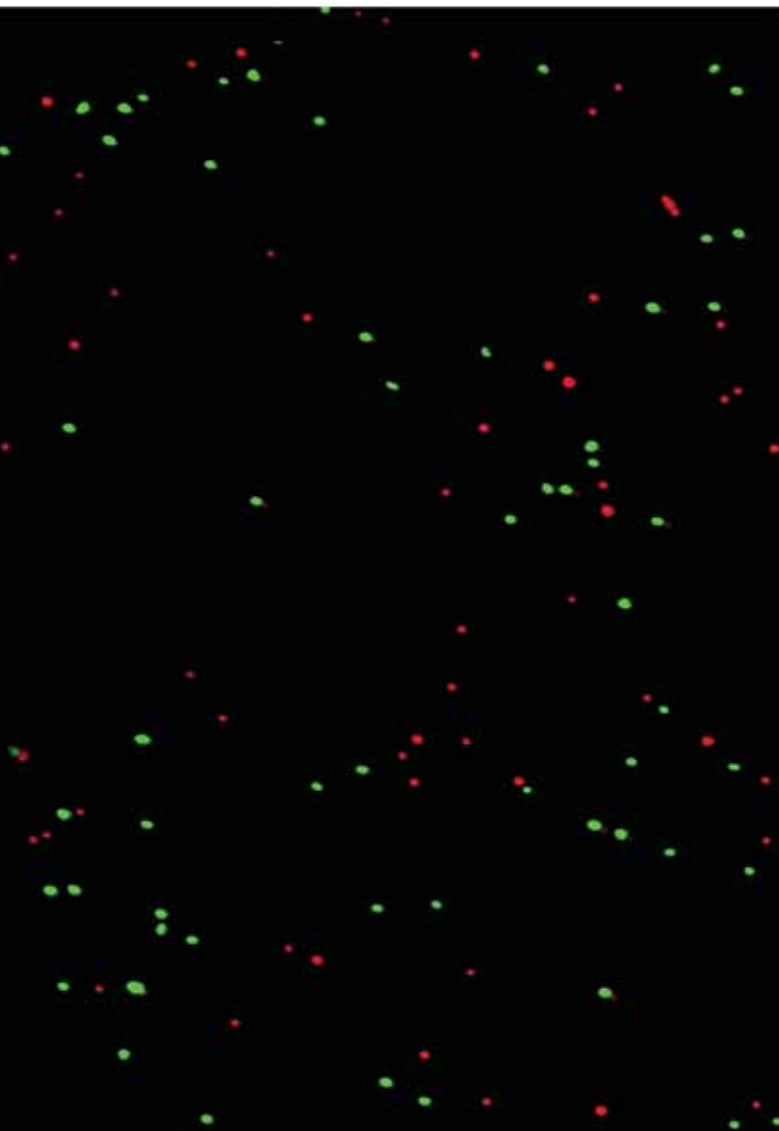


The Luna-FL™ is a fluorescence cell counter that measures cell viability and counts cells. The most advanced integrated fluorescent optics sets the Luna-FL™ apart from other cell counters by providing unparalleled counting speed and accuracy of any cell type.

Accelerate your research with the ultimate automated cell counter, the Luna-FL™.



Luna *fl*™

The Ultimate Automated Cell Counter

# The Ultimate Automated Cell Counter



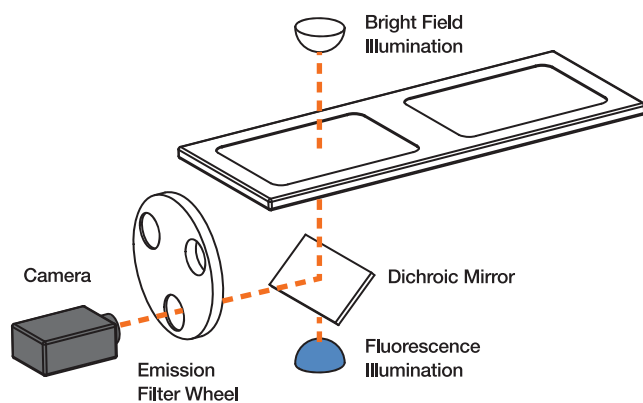
The Luna-FL™ automated cell counter is a stand-alone compact instrument with combined fluorescence microscopy and image analysis software. Its interactive touch screen interface allows for easy and accurate results.

# Luna *fl*™

## Dual Fluorescence Cell Counting

The Luna-FL™ automated cell counter from Logos Biosystems is a quantum leap for automated cell counting and cell viability analysis. The Luna-FL™ automated cell counter gives you sensitive and accurate live/dead cell counting results without limitation of cell types.

Unlike immortalized cell lines, primary cells such as PBMCs, splenocytes, neutrophils, and stem cells have been difficult to count with conventional cell counters such as Coulter counter or image-based automated cell counters that utilize bright field optics. Primary cells are often contaminated with undesirable debris, which can be confused for cells with the conventional cell counters. The Luna-FL™ is integrated with dual fluorescence microscope optics to overcome this problem. Live/dead cells are stained with the green/red fluorescence dye, and the labeled cell images are analyzed with accurate image analysis software.



## Dual Fluorescence Automated Cell Counter

### Cell Counting Slide

Patented design of the Luna counting slide has precision chamber height to evenly distribute the cells throughout the chamber.



# Smarter than Ever

## Don't Always Need Fluorescence ? Bright Field Optics Is Incorporated For Trypan Blue Cell Counting

Luna-FL™ also inherited the proven performance of the Luna™ automated cell counter. The precision bright field microscope optics of the Luna™ is integrated in the Luna-FL™ to provide the convenient features of trypan blue stained cell counting. The powerful and accurate cell counting algorithm of the Luna™ is still available with the Luna-FL™.

Luna-FL™ = Luna™ + Dual fluorescence cell counter

## Interactive Software Interface

### Powerful On-board Analysis

After the cell counting operation is performed, integrated analysis software gives immediate viability data which is reported on the Luna-FL™. For validation purposes, living cells are conveniently circled in green and dead cells in red.

### Image Overlay

The analyzed images from each channel (bright field, green, and red channel) can be merged directly on the screen. The brightness of each color can be adjusted independently for the accurate monitoring. Images can then be saved to the USB drive for storage, transfer, or future analyses.

### Cell Size Gating

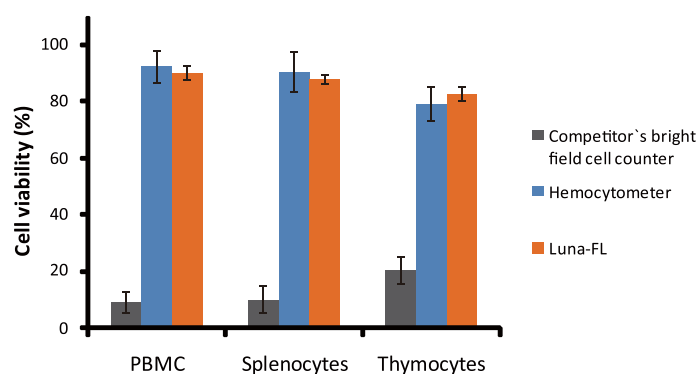
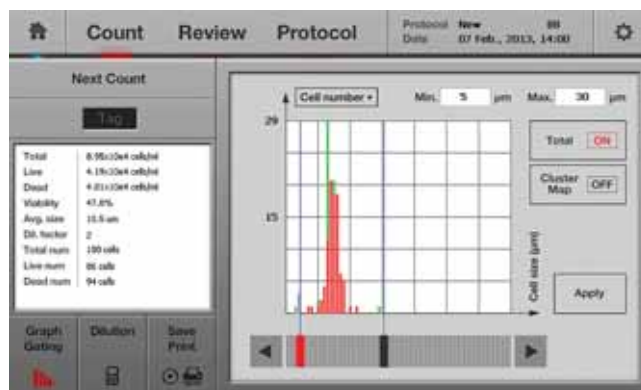
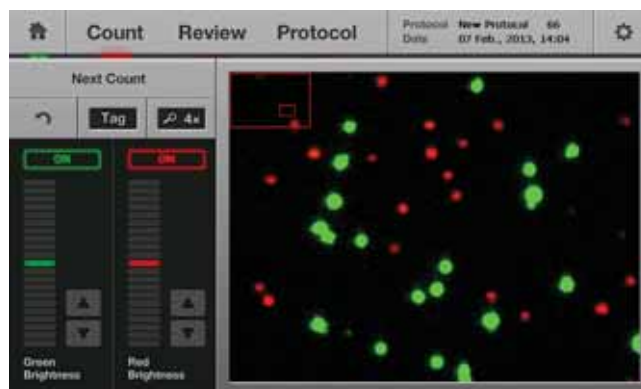
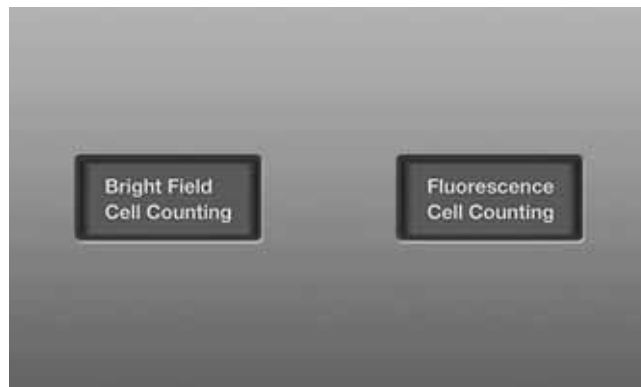
Counted cells can be gated based on the cell size information. Using a histogram to display live and dead cell populations, particles can be easily excluded or included by simply defining the cell size to include in the count data.

### Data Report

The analyzed data can be easily saved as a PDF report or CSV file. Cell counting results, cell image data, and a various types of histograms are integrated into a single PDF file and transferred via a USB drive. Data from previous cell counts (up to 1,000 counts) are archived on the Luna-FL™ if future analysis is required.

## Minimal Running Cost

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



## Key Features ✓

Dual Fluorescence Optics  
For The Sensitive Cell Analysis

Unmatched Cell Counting  
Accuracy

Most Affordable Counting  
Cost & Cell Size Gating

Trypan Blue Stained Cell Counting  
With Bright Field Optics

Optimized For Primary Cells, Stem  
Cells, PBMCs, Splenocytes, etc.

Interactive  
Graphic User Interface

## Specifications

<b>Sample Volume</b>	<b>10 µl</b>
Cell Counting Time	30 sec
Cell Concentration Range	5×10 <sup>4</sup> - 1×10 <sup>7</sup> cells/ml
Cell Size Range	Detectable Range: 1 - 90 µm Optimal Range: 5 - 60 µm
Excitation wavelength	470 ± 20nm
Emission wavelength	530 ± 25nm, 600 nm (LP)
Light Source	LED
Image Resolution	5 MP
LCD Display	7 inch (800 x 480 pixels)
Dimensions (WxDxH)	22 x 21 x 9 cm (8.6 x 8.3 x 3.5 inch)
Weight	1.8 kg (4 lb) *without the external power adaptor

## Ordering Information

Cat#	Product
L20001	Luna-FL™ Automated Fluorescence Cell Counter
	Luna-FL™ Cell Counting Slides:
L12001	50 slides (100 counts)
L12002	500 slides (1,000 counts)
L12003	1,000 slides (2,000 counts)
L12004	2,500 slides (5,000 counts)
F23001	AO/PI cell viability kit
F23202	Yeast viability kit
T13001	Trypan blue stain 0.4% for use with Luna™ and Luna-FL™ automated cell counter

## Cell Lines Validated

On The Luna-FL™ Automated Cell Counter

Cell Type	Vendor	Cat. No.	Animal	Organ
PBMC	Primary Cell		Mouse	Blood
Splenocyte	Primary Cell		Mouse	Spleen
Thymocyte	Primary Cell		Mouse	Thymus
HEK-293	ATCC	CRL-1573	Human	Kidney
A431	ATCC	CRL-2592	Human	Skin
CHO-M1WT2	ATCC	CRL-1984	Chinese Hamster	Ovary
CHSE	ATCC	CRL-1681	Chinook Salmon	Embryo
COLO-205	ATCC	CCL-243	Human	Colon
COS-7	ATCC	CRK-1651	African Monkey	Kidney
HeLa	ATCC	CCL-2	Human	Cervix
HepG2	ATCC	CRL-10741	Human	Liver
HL-60	ATCC	CCL-240	Human	Blood
J774A.1	ATCC	TIB-67	Mouse	Blood
Jurkat	ATCC	TIB-152	Human	Blood
MCF7	ATCC	HTB-22	Human	Breast
MRC-5	ATCC	CCL-171	Human	Lung
NIH/3T3	ATCC	CRL-1658	Mouse	Embryo



Logos Biosystems, Inc.  
#930, Doosan Venture Digm, 126-1 Pyungchon-Dong,  
Dongan-Gu, Anyang-City, Gyunggi-Do, 431-755, Korea

Tel +82-31-478-4185  
Fax +82-31-478-4184  
Homepage www.logosbio.com  
E-mail sales@logosbio.com

Proudly and exclusively represented in New England (MA, CT, RI, NH, ME, VT) by:

**New EnglandBioGroup™**

PO Box 1231  
Atkinson, NH 03811

P. (617)286-4632  
E. info@nebiogroup.com  
W. www.nebiogroup.com