# LUNA-STEM™

Dual Fluorescence Cell Counter

## SVF AUTOMATED CELL COUNTER

The LUNA-STEM™ is

a dual fluorescence cell counter

that measures cell munber and viability.

The most advanced fluorescence optics

and analysis software enable the LUNA-STEM™

to count both nucleated and non-nucleated

cells simultaneously and accurately.

The ability to count stem cells and cells

from the stromal vascular fraction (SVF) sets

LUNA-STEM™ apart from other cell counters.


www.logosbio.com

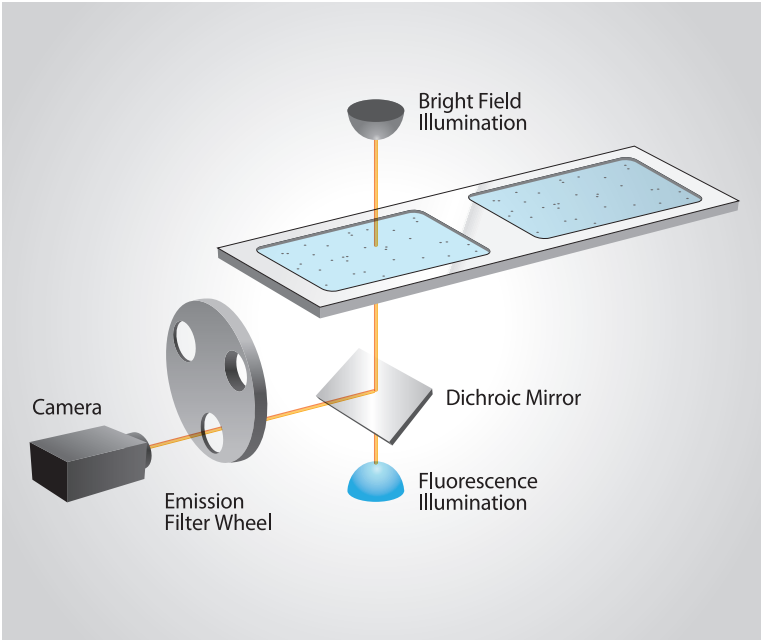

# LUNA-STEM™

The LUNA-STEM™ is a stand-alone compact instrument that combines dual fluorescence optics and image analysis software. Its interactive touchscreen makes accurate cell counting a simple experience.

## Dual Fluorescence + Bright Field Optics

The LUNA-STEM™ is a quantum leap forward for automated cell counting and viability analysis. Using Acridine Orange (AO) and Propidium Iodide (PI) to stain Live and dead cells, respectively, the LUNA-STEM™ provides highly sensitive and accurate results fir most cell types, including stem cells and SVF cell.

The various cells within the SVF can be recognized and counted as non-nucleated cells or live and dead nucleated cells, which is not possible with other cell counters.



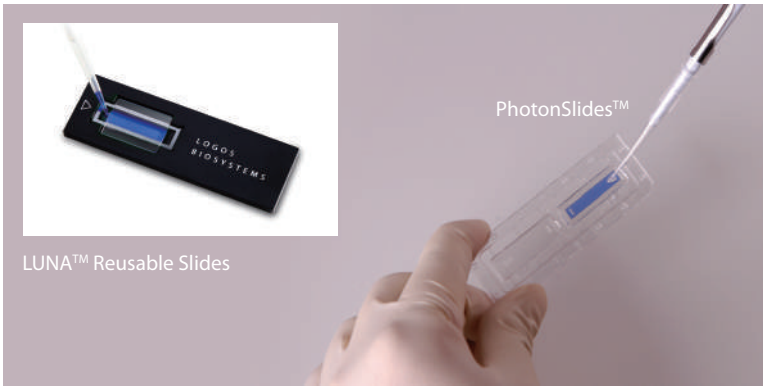

## Compatible with the LUNA™ Reusable Slide and PhotonSlides™

**Cost efficient**

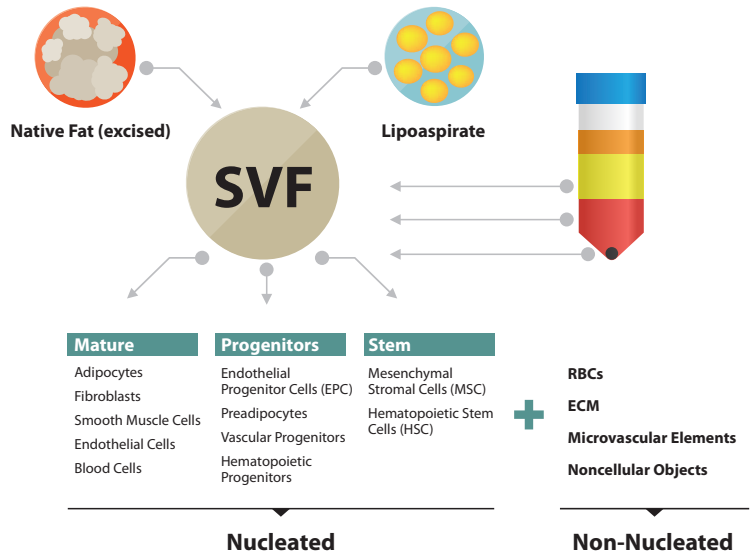
Designed for cost-efficient and accurate cell counting, the LUNA™ Reusable Slide has the affordability of manual cell counting without the associated subjectivity and time.

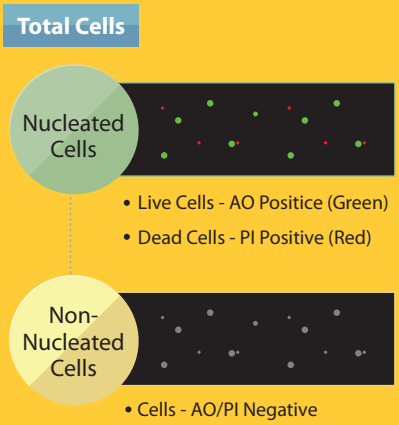
**Convenient**

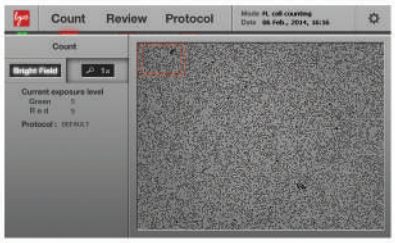
PhotonSlides™ are disposable precision slides made with optical quality materials for optimal fluorescence signal detection. The slide offer the ultimate counting experience with no mess or cleanup, while maintaining the highest standard of cell counting accuracy.

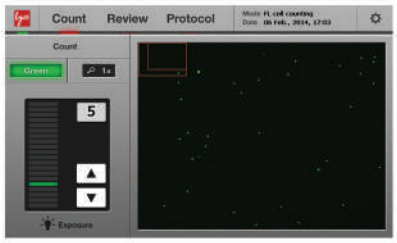


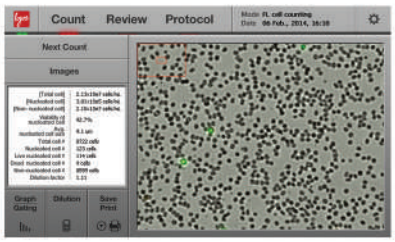
## Nucleated & Non-Nucleated Cell Analysis

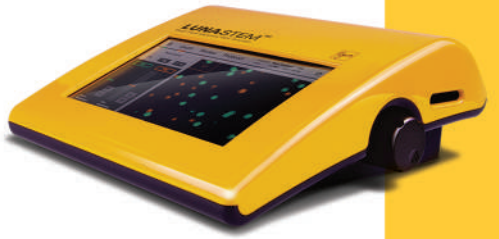


LUNA-STEM™




## Interactive Software Interface

### Powerful On-board Analysis

Built-in software automatically generates cell viability data upon cell counting. For validation purposes, live and dead cells are tagged with green and red circles, respectively.

### Image Overlay

Images are captured from three channels (brightfield, green, and red) and can be merged directly on the screen. The brightness of each color can be adjusted individually for accurate detection. All images can be saved to an external USB drive.

### Data Report

Data can be exported as a PDF report or CSV file. The LUNA-STEM™ generates comprehensive PDF reports complete with the cell count and viability data, cell images, and relevant histograms.

### LUNA™ Printer

The results of each count may be printed out immediately with the LUNA™ Printer.

**Advanced** Daul fluorescence optics

**Fast** Images generated from three channels in 30-60 s

**Accurate** Distinguishes nucleated and non-nucleated cells

**Convenient** Easy-to-use software with a simple counting procedure

## Specifications

| | |
|---|---|
| Sample Volume | 10 µm |
| Cell Counting Time | 30-60 sec (depending on sample conditions) |
| Cell Concentration Range | $5\times10^4$ - $1\times10^7$ cells/mL (optimal range) |
| Cell Size Range | Detectable range : 1-90 µm<br>Optimal range : 5-60 µm |
| Excitation Wavelength | 470 ±20 nm |
| Exission Wavelength | 530 ±25 nm, 600 nm (LP) |
| Light Source | LED |
| Image Resolution | 5 MP |
| LCD Display | 7 inches (800x480 pixels) |
| Dimensions (W×D×H) | 22×21×9 cm (8.6×8.3×3.5 in) |
| Weight | 1.8 kg (3.5 lb) *without the AC adaptor |

## Ordering Information

| Cat# | Product | Quantity |
|---|---|---|
| L30001 | LUNA-STEM™ Automated Fluorescence Cell Counter | 1 unit |
| L12005 | PhotonSlide™, 50 Slides | 1 box |
| L12006 | PhotonSlide™, 500 Slides | 10 boxes |
| L12007 | PhotonSlide™, 1000 Slides | 20 boxes |
| L12011 | LUNA™ Reusable Slide | 1 unit |
| L12012 | LUNA™ Reusable Slides | 2 units |
| L12014 | LUNA™ Reusable Slide Coverslips | 10 units |
| F23102 | LUNA™ Fluorescence Calibration Beads | 1 x 0.5 mL |
| F23001 | Acridine Orange/Propidium Iodide Stain | 2 x 0.5 mL |
| F23002 | Acridine Orange Stain | 2 x 0.5 mL |
| F23003 | Propidium Iodide Stain | 2 x 0.5 mL |
| F23212 | Cell Dilution Buffer | 5 x 20 mL |
| P10001 | LUNA™ Printer I | 1 unit |
| P10002 | LUNA™ Printer I Paper (Thermal, 275 prints/roll, 6rolls) | 3 x 2 rolls |
| U10005 | USB Drive, 16 GB | 1 unit |


logos biosystems

www.logosbio.com

LBSM-RD-BR-LUC-001

HEADQUARTERS

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

Tel : +82-31-478-4185
Fax : +82-31-478-4277
E-mail : info@logosbio.com

USA

7700 Little River Turnpike STE 207
Annandale, VA 22003
USA

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

EUROPE

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