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™.
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 touchscreen interface makes accurate cell counting sample.

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 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 labeled cell images are analyzed with accurate image analysis software.

Key Features

- Dual Fluorescence Optics For Sensitive Cell Analysis
- Unmatched Cell Counting Accuracy
- Most Affordable Counting Cost & Cell Size Gating
- Dye Exclusion Based Cell Counting with Bright Field Optics
- Optimized for Primary Cells, Stem Cells, PBMCs, Splenocytes, etc.
- Interactive Graphic User Interface
Smarter than Ever

Don’t always need fluorescence?

Bright field optics is incorporated for dye exclusion based 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

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 analysis.

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™.

The lowest counting costs

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: The LUNA-FL™ is compatible with PhotonSlides™ and LUNA™ Cell Counting Slides. These disposable precision slides offer the ultimate counting experience with no mess or cleanup, while maintaining the highest standard of cell counting accuracy.
Specifications

Sample Volume 10 μl
Cell Counting Time 30 sec
Cell Concentration Range 5x10⁴ - 1x10⁷ cells/mL
Cell Size Range Detectable Range: 1 - 90 μm
Optimal Range: 5 - 60 μm
Excitation wavelength 470 ± 20 nm
Emission wavelength 530 ± 25 nm, 600 nm (LP)
Light Source LED
Image Resolution 5 MP
LCD Display 800 x 480 pixels
Dimensions (WxDxH) 22 x 21 x 9 cm (8.6 x 8.3 x 3.5 in)
Weight 1.8 kg (4 lb) *without the AC adapter and power cord

Cell Lines Validated

On The LUNA-FL™ Automated Cell Counter

<table>
<thead>
<tr>
<th>Cell Type</th>
<th>Vendor</th>
<th>Animal</th>
<th>Organ</th>
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<tbody>
<tr>
<td>P3MC</td>
<td>Primary Cell</td>
<td>Mouse</td>
<td>Blood</td>
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<tr>
<td>Splenocyte</td>
<td>Primary Cell</td>
<td>Mouse</td>
<td>Spleen</td>
</tr>
<tr>
<td>Thymocyte</td>
<td>Primary Cell</td>
<td>Mouse</td>
<td>Thymus</td>
</tr>
<tr>
<td>A431</td>
<td>ATCC</td>
<td>Human</td>
<td>Skin</td>
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<tr>
<td>CHO-M1WT2</td>
<td>ATCC</td>
<td>Chinese Hamster</td>
<td>Ovary</td>
</tr>
<tr>
<td>CHSE</td>
<td>ATCC</td>
<td>Chinook Salmon</td>
<td>Embryo</td>
</tr>
<tr>
<td>COLO-205</td>
<td>ATCC</td>
<td>Human</td>
<td>Colon</td>
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<tr>
<td>CDS-7</td>
<td>ATCC</td>
<td>African Monkey</td>
<td>Kidney</td>
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<tr>
<td>HEP-2</td>
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<td>Kidney</td>
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<td>ATCC</td>
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<td>ATCC</td>
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<td>MRC-5</td>
<td>ATCC</td>
<td>Human</td>
<td>Lung</td>
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<tr>
<td>NIH/3T3</td>
<td>ATCC</td>
<td>Mouse</td>
<td>Embryo</td>
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Ordering Information

<table>
<thead>
<tr>
<th>Cell#</th>
<th>Product</th>
<th>Size</th>
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<tbody>
<tr>
<td>L20001</td>
<td>LUNA-FL™ Automated Fluorescence Cell Counter</td>
<td>1 unit</td>
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<tr>
<td>L12001</td>
<td>LUNA™ Cell Counting Slides, 50 Slides</td>
<td>1 box</td>
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<tr>
<td>L12002</td>
<td>LUNA™ Cell Counting Slides, 500 Slides</td>
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<tr>
<td>L12003</td>
<td>LUNA™ Cell Counting Slides, 1,000 Slides</td>
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<td>L20008</td>
<td>LUNA™ Reusable Slide</td>
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<td>L21010</td>
<td>LUNA™ Reusable Slide Coverslips</td>
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<td>L12005</td>
<td>Photonslide™, 50 slides</td>
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<tr>
<td>L12006</td>
<td>Photonslide™, 500 slides</td>
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<tr>
<td>L12007</td>
<td>Photonslide™, 1,000 slides</td>
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<tr>
<td>T13001</td>
<td>Trypan Blue Stain, 0.4%</td>
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<tr>
<td>T13002</td>
<td>Erythrosin B Stain</td>
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<tr>
<td>F23001</td>
<td>Acidine Orange / Propidium Iodide Stain</td>
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<td>Acidine Orange Stain</td>
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<td>F23003</td>
<td>Propidium Iodide Stain</td>
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<td>Propidium Iodide Stain for Yeast</td>
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<td>Fluorescein Signal Enhancer 1</td>
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<td>P10001</td>
<td>LUNA™ Printer</td>
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<td>P10002</td>
<td>LUNA™ Printer Paper - thermal, 700 prints</td>
<td>3 x 2 rolls</td>
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<tr>
<td>P13001</td>
<td>LUNA™ Printer Cleaning Pen</td>
<td>1 unit</td>
</tr>
<tr>
<td>U10004</td>
<td>USB Drive, 16 GB</td>
<td>1 unit</td>
</tr>
</tbody>
</table>

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