# LUNA III™

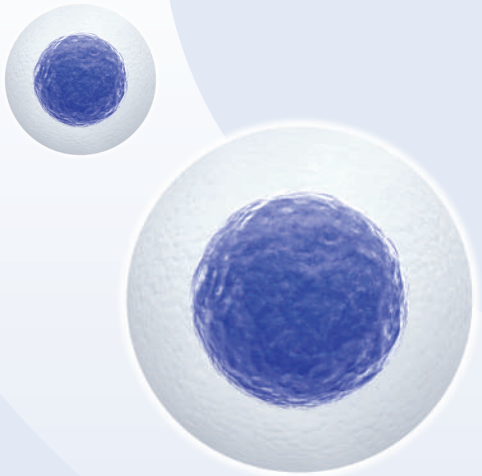
Automated Cell Counter

## Better Counts for Better Science

Accuracy | Convenience | Time & Cost Saving


logos biosystems
by ALIGNED GENETICS

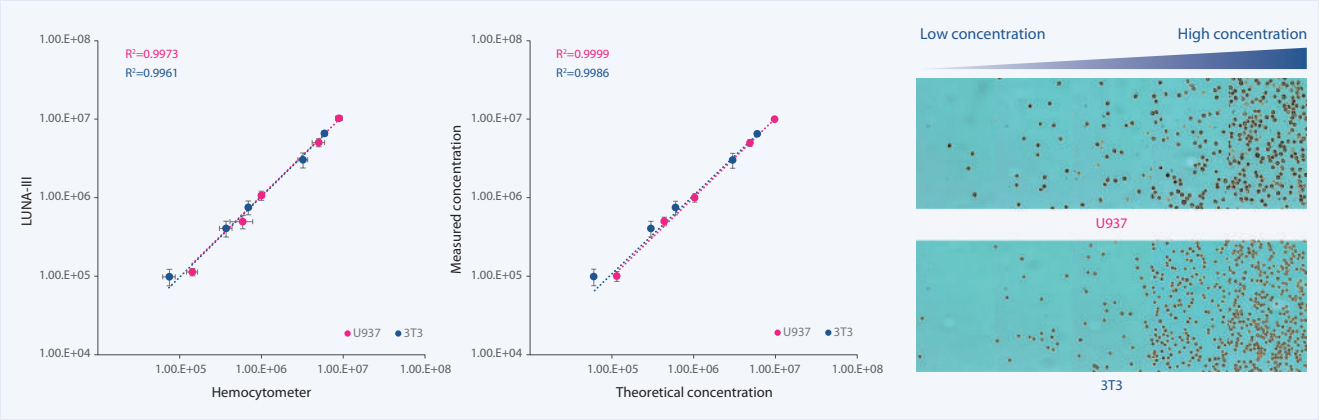
# LUNA-III™ Automated Cell Counter



Introducing the LUNA-III™ Automated Cell Counter, the ultimate in cell counting technology, designed to enhance your lab's productivity and precision. Building on the proven success of the LUNA-II™, the LUNA-III™ Automated Cell Counter offers an array of advanced features:

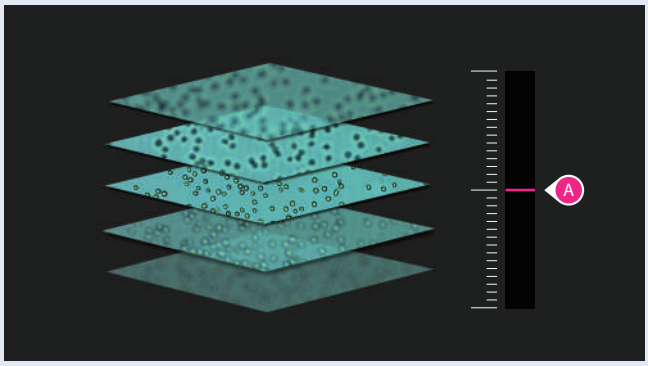
## Machine Learning Optimized for Excellence

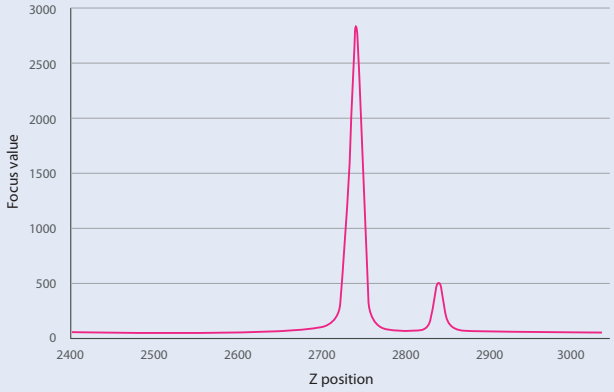
Designed for optimal performance in diverse laboratory environments, the LUNA-III™ Automated Cell Counter addresses the common limitations of dedicated brightfield cell counters. Standard brightfield-only models typically use less sophisticated cell recognition algorithms that struggle to accurately identify diverse cell morphologies or assess cell viability. The LUNA-III™ Automated Cell Counter incorporates machine learning trained algorithms first introduced in our most advanced model, the LUNA-FX7™. Improved cell recognition enables the LUNA-III™ Automated Cell Counter to more effectively identify a wide range of cell types and accurately identify single cells in aggregated samples.




## Advanced Autofocus Technology

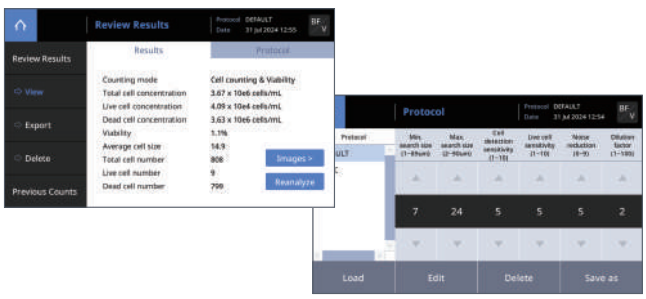
The LUNA-III™ Automated Cell Counter features a fast and accurate autofocus, a critical factor in achieving precise results with automated cell counters. A poorly focused image leads to inaccurate cell recognition, affecting cell viability and size measurements. The LUNA-III™ Automated Cell Counter utilizes the highly effective autofocusing mechanisms and algorithms utilized in the award-winning LUNA-FX7™. The LUNA-III™ Automated Cell Counter's advanced autofocus technology yields more accurate and reliable counting results enabling better decisions about downstream applications and protocols.



## Re-Analysis for Optimal Accuracy

Delivering accurate results across diverse cell morphologies is crucial for automated cell counters. While many offer user-defined protocols for precision, the LUNA™ series stands out with its ability to re-analyze saved counts using different protocols. The LUNA-III™ Automated Cell Counter's reanalysis feature allows users to optimize results by re-analyzing stored images, eliminating the need for additional sample preparation.




## Seamless and Flexible Data Management

The LUNA-III™ offers 10 GB of internal storage and enhanced data management through USB and network connections. The front USB port supports various storage devices, while internal storage data can be accessed anytime via the lab's network, enabling easy file transfer to computers.

## Eco-Friendly Reusable Slide Option

Reduce lab waste with the LUNA-III™ Automated Cell Counter and its reusable quartz glass slides. These durable, precisely engineered slides are designed for long-term use, promoting environmental sustainability within the LUNA™ family of cell counters.


## Increased Safety with Erythosin B

Trypan blue, a standard dye for cell viability assays, is carcinogenic and toxic. Erythrosin B offers a safer alternative, effectively staining non-viable cells without these risks. The LUNA-III™ Automated Cell Counter is optimized for both Trypan Blue and Erythrosin B, ensuring safe and accurate cell counts.

## Small Footprint Maximizes Benchspace

The LUNA-III™ Automated Cell Counter is the perfect solution for when bench space is at a premium. With a width of only 16 cm (6.3 inch) the LUNA-III™'s footprint is smaller than that of a standard piece of paper, providing powerful analysis in a compact build.

## Ordering Information

| Cat # | Product | Quantity |
|---|---|---|
| L60001 | LUNA-III™ Automated Cell Counter | 1 unit |
| L60002 | LUNA-III™ Automated Cell Counter, Sustainable Package | 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 pack) | 2 units |
| L12014 | LUNA™ Reusable Slide Coverslips | 10 units |
| T13001 | Trypan Blue Stain, 0.4% | 2 x 1 mL |
| T13011 | Trypan Blue Stain, 0.4%, Sterile-filtered | 2 x 1 mL |
| L13002 | Erythrosin B Stain | 2 x 1 mL |
| B13101 | LUNA™ Standard Beads | 2 x 1 mL |
| P17001 | LUNA™ Printer II | 1 unit |
| U10005 | USB Drive, 16 GB | 1 unit |
| L72041 | Cell Counter Validation Slide-BF II | 1 unit |
| L64003 | LUNA-III™ IQ/OQ Protocol | 1 copy |

## Specifications

| | |
|---|---|
| Cell Size Range | 3~60 µm (optimal: 8~30 µm) |
| Cell Concentration Range | $5x10^4$~$1x10^7$ cells/mL |
| Cell Viability Range | 0~100 % |
| Optics | Brightfield |
| Focusing | Manual focus, Autofocus |
| Cell Counting Time | Approx. 10 s (Manual focusing)<br>Approx. 15 s (Autofocusing) |
| Sample Volume | 10 µL |
| Analysis Volume | 0.5 µL (equivalent to 5 large squares of the hemocytometer) |
| Display | 5.0" TFT LCD touch screen (800 x 480) |
| Network | Ethernet |
| Data Storage | 10 GB internal storage or external storage via USB port |
| Image Resolution | 5 MP |
| Image Type | TIF, annotated TIF |
| Report | PDF, CSV format |
| Dimensions (W x D x H) | 16 x 18 x 28 cm (6.3 x 7.0 x 11.0 in) |
| Weight | 1.8 kg (4.0 lb) without the AC adaptor |
| Operating Power | 100~240 VAC, 1.2A |
| Frequency | 50/60 Hz |
| Electronic Input | 12 VDC, 3.3 A |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