






CELL COUNTING > [COMPARE CELL COUNTERS](#)

COMPARE CELL COUNTERS

LUNA-II™ Automated Cell Counter	LUNA-FX7™ Automated Cell Counter	LUNA-FL™ Dual Fluorescence Cell Counter	LUNA-STEM™ Automated Fluorescence Cell Counter	LUNA-II YF™ Automated Yeast Cell Counter
				
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Main Features

Most affordable cell counter.	Versatile cell counter that serves a wide variety of applications. An excellent choice for higher throughput and/or regulatory needs.	Versatile and affordable fluorescence cell counter with manual focus.	Fluorescence cell counter specialized for SVF derived-cells.	Affordable yeast cell counter.
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Cell Types

Stable cell lines	Cell lines Primary cells Whole blood PBMCs Splenocyte Thymocyte Yeast cells	Cell lines Primary cells Blood cells PBMCs Splenocyte Thymocyte Yeast cells GFP expressing cells	Stem cells SVF-derived cells • Nucleated • Non-nucleated	Yeast cells
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Detection Method

Brightfield	Dual fluorescence Brightfield	Dual fluorescence Brightfield	Dual fluorescence	Dual fluorescence
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Compatible Dyes

Trypan blue Erythrosin B	Trypan blue Erythrosin B Acridine orange Propidium iodide Fluorescein diacetate	Trypan blue Erythrosin B Acridine orange Propidium iodide Fluorescein diacetate	Acridine orange Propidium iodide	Acridine orange Propidium iodide Fluorescein diacetate
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Recommended Slide Options

LUNA™ Cell Counting Slides LUNA™ Reusable Slide	PhotonSlides LUNA™ 1-Channel Slide LUNA™ 3-Channel Slide LUNA™ 8-Channel Slide	PhotonSlide™ LUNA™ Reusable Slide	PhotonSlide™ LUNA™ Reusable Slide	PhotonSlide™ LUNA™ Reusable Slide
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Focusing Options

Autofocus Manual focus	Autofocus Manual focus	Manual focus	Manual focus	Autofocus Manual focus
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Counting Volume/Chamber

0.5 µL	0.5 - 5.1 µL by slide types	0.5 µL	0.5 µL	0.5 µL
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Counting Speed

< 10 s (manual focus) < 15 s (autofocus)	< 10 s (brightfield, without autofocus, 12 images) < 20 s (brightfield, with autofocus, 12 images) < 30 s (fluorescence, without autofocus, 12 images) < 40 s (fluorescence, with autofocus, autofocus, 12 images)	< 10 s (brightfield) < 30 s (fluorescence)	< 30 s	< 10 s (manual focus) < 15 s (autofocus)
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Adjustable Protocol Parameters

Cell size Declustering Dilution factor Live cell sensitivity Noise reduction Roundness	Search size / Cell size Cell detection sensitivity Live cell sensitivity Noise reduction Fluorescence exposure Fluorescence threshold Dilution factor	Cell size Dilution factor Fluorescence threshold Live cell sensitivity Noise reduction Roundness	Cell size Dilution factor Fluorescence threshold Noise reduction Roundness	Fluorescent object size Dilution factor Fluorescence exposure Light intensity
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Additional Features

Cell size gating Cluster map Dilution calculator Review previous count results Auto exposure	Cell size gating Cluster map Dilution calculator Review previous count results Bioprocess Quality control Reanalysis Auto exposure	GFP expression analysis Cell size gating Cluster map Dilution calculator Review previous count results Auto exposure	Cell size gating Cluster map Dilution calculator Review previous count results	Fluorescent object size gating Dilution calculator Review previous count results
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IQOQ Protocol

Yes	Yes	Yes	Yes	-
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21 CFR Part 11 ready

-	Yes (With CountWire™ software)	-	-	- <div></div>
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Saving Options

Cell count and viability data (CSV)	Cell count and viability data (CSV)	Cell count and viability data (CSV)	Cell count and viability data (CSV)	Cell count and viability data (CSV)
Raw image (TIF)	Raw image (TIF)	Raw image (TIF)	Raw image (TIF)	Raw image (TIF)
Analyzed image (annotated TIF)	Analyzed image (annotated TIF)	Analyzed image (annotated TIF)	Analyzed image (annotated TIF)	Analyzed image (annotated TIF)
Full report (PDF)	Full report (PDF)	Full report (PDF)	Full report (PDF)	Full report (PDF)
	Bioprocess (Onboard, CSV, PNG graph images)			
	Quality Control (Onboard, CSV, PNG graph images)			

Data Transfer

USB memory stick	USB memory stick, WiFi, Ethernet	USB memory stick	USB memory stick	USB memory stick
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Technical Specifications

5” TFT LCD screen	7” TFT LCD screen	7” TFT LCD screen	7” TFT LCD screen	5” TFT LCD screen
800 X 480 pixels	1024 X 600 pixels	800 X 480 pixels	800 X 480 pixels	800 X 480 pixels
Built-in computer	Built-in computer	Built-in computer	Built-in computer	Built-in computer
Built-in printer (optional)	External printer (optional)	External printer (optional)	External printer (optional)	Built-in printer (optional)

Onboard Storage

-	250GB / 1TB	-	-	-
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Weight

1.6 kg (3.5 lb)	4.5 kg (9.9 lb)	1.8 kg (4 lb)	1.8 kg (4 lb)	1.8 kg (3.9 lb)
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Dimensions

16 x 18 x 28 cm (6.3 x 7.0 x 11.0 in)	24.5 x 28 x 24 cm (9.6 x 11.0 x 9.4 in)	22 x 21 x 9 cm (8.6 x 8.3 x 3.5 in)	22 x 21 x 9 cm (8.6 x 8.3 x 3.5 in)	16 x 18 x 28 cm (6.3 x 7.0 x 11.0 in)
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