

[CELL COUNTING](#) > [COMPARE CELL COUNTERS](#)

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LUNA-II™

Automated Cell Counter



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LUNA-FX7™

Automated Cell Counter



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LUNA-FL™

Dual Fluorescence Cell Counter



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LUNA-STEM™

Automated Fluorescence Cell Counter



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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.

Cell Types

Stable cell lines

Cell lines

Cell lines

Stem cells

Yeast cells

Primary cells

Primary cells

SVF-derived cells

Whole blood

Blood cells

- Nucleated

PBMCs

PBMCs

- Non-nucleated

Splenocyte

Splenocyte

Thymocyte

Thymocyte

Yeast cells

Yeast cells

GFP expressing cells

Detection Method

Brightfield

Dual fluorescence

Dual fluorescence

Dual fluorescence

Dual fluorescence

Brightfield

Brightfield

Compatible Dyes

Trypan blue

Trypan blue

Trypan blue

Acridine orange

Acridine orange

Erythrosin B

Erythrosin B

Erythrosin B

Propidium iodide

Propidium iodide

Acridine orange

Acridine orange

Propidium iodide

Propidium iodide

Fluorescein diacetate

Fluorescein diacetate

Fluorescein diacetate

Fluorescein diacetate

Recommended Slide Options

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

Focusing Options

Autofocus	Autofocus	Manual focus	Manual focus	Autofocus
Manual focus	Manual focus			Manual focus

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

Adjustable Protocol Parameters

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

Additional Features

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

IQOQ Protocol

Yes	Yes	Yes	Yes	-
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21 CFR Part 11 ready

-	Yes (With CountWire™ software)	-	-	-	<input type="checkbox"/>
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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 printer (optional)	External printer (optional)	External printer (optional)	External printer (optional)	External 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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Brochure

DOWNLOAD				
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