



CELL COUNTERS

DIGITAL MICROSCOPE

X-CLARITY™

SUPPORT

COMPANY

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LUNA™
AUTOMATED CELL COUNTER

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LUNA-II™
AUTOMATED CELL COUNTER

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LUNA-FL™
DUAL FLUORESCENCE
CELL COUNTER

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LUNA-STEM™
CELL COUNTER FOR
STEM CELL & SVF

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LUNA-II YF™
AUTOMATED YEAST
CELL COUNTER

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QUANTUM Tx™
MICROBIAL CELL COUNTER

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Cell types

Cell lines	Cell lines PBMCs	Cell lines Primary cells Blood cells • PBMCs • Splenocyte • Thymocyte Yeast cells	Stem cells SVF-derived cells • Nucleated • Non-nucleated	Yeast cells	Bacterial cells
Detection method					
Brightfield	Brightfield	Fluorescence Brightfield	Fluorescence	Fluorescence	Fluorescence
Compatible dyes					
Trypan blue Erythrosin B	Trypan blue Erythrosin B	Trypan blue Erythrosin B Acridine orange Propidium iodide Fluorescein diacetate	Acridine orange Propidium iodide	Acridine orange Propidium iodide Fluorescein diacetate	QUANTUM™ Total Cell Staining Dye
Focusing options					
Manual focus	Autofocus Manual focus	Manual focus	Manual focus	Autofocus Manual focus	Autofocus Manual focus
Counting speed					
< 10 s	< 10 s (manual focus) < 15 s (autofocus)	< 10 s (brightfield) < 30 s (fluorescence)	< 30 s	< 10 s (manual focus) < 15 s (autofocus)	< 1 min (autofocus, 20 images)
Adjustable parameters					
Cell size Declustering Dilution factor Live cell sensitivity Noise reduction Roundness	Cell size Declustering Dilution factor Live cell sensitivity Noise reduction Roundness	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	Fluorescent object size Dilution factor Roundness Declustering Multi-field imaging

Additional features

Cell size gating	Cell size gating	GFP expression analysis	Cell size gating	Fluorescent object size gating	Fluorescent object size gating
Cluster map	Cluster map	Cell size gating	Cluster map	Dilution calculator	Dilution calculator
Dilution calculator	Dilution calculator	Cluster map	Dilution calculator	Review previous count results	Review previous count results
Review previous count results	Review previous count results	Dilution calculator	Review previous count results		
		Review previous count results			

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)	Cell count data (CSV)
Raw image (TIF)	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)	Analyzed image (annotated TIF)
Full report (PDF)	Full report (PDF)	Full report (PDF)	Full report (PDF)	Full report (PDF)	Full report (PDF)
• Count and viability data	• Count and viability data	• Count and viability data	• Count and viability data	• Count and viability data	• Cell count data
• Cell images	• Cell images	• Cell images	• Cell images	• Cell images	• Cell images
• Protocol used	• Protocol used	• Protocol used	• Protocol used	• Protocol used	• Protocol used
• Analytical histograms	• Analytical histograms	• Analytical histograms	• Analytical histograms	• Analytical histograms	• Analytical histograms
• Cluster map	• Cluster map	• Cluster map	• Cluster map		

Compatible slides

LUNA Cell Counting Slides	LUNA Cell Counting Slides	LUNA Reusable Slide	PhotonSlides	PhotonSlides	QUANTOM™ M50 Cell Counting Slides
LUNA Reusable Slide	LUNA Reusable Slide		LUNA Reusable Slide	LUNA Reusable Slide	

Technical specifications

7" TFT LCD screen	5" TFT LCD screen	7" TFT LCD screen	7" TFT LCD screen	5" TFT LCD screen	10" TFT LCD screen
800 X 480 pixels	800 X 480 pixels	800 X 480 pixels	800 X 480 pixels	800 X 480 pixels	1280 x 800 pixels
Built-in computer	Built-in computer	Built-in computer	Built-in computer	Built-in computer	External printer (optional)
External printer (optional)	Built-in printer (optional)	External printer (optional)	External printer (optional)	External printer (optional)	

Weight

1.2 kg (2.6 lb)	1.6 kg (3.5 lb)	1.2 kg (2.6 lb)	1.2 kg (2.6 lb)	1.8 kg (3.9 lb)	10.8 kg (23.9 lb)
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Dimensions

22x21x9 cm (8.6x8.3x3.5 in)	16x18x28 cm (6.3x7.0x11.0 in)	22x21x9 cm (8.6x8.3x3.5 in)	22x21x9 cm (8.6x8.3x3.5 in)	16x18x28 cm (6.3x7.0x11.0 in)	43.3x31.0x22.5 cm (17.0x12.2x8.8 in)
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