

#88416, #35423

CellSimple™ Cell Analyzer and CellSimple™ Cassettes



Support: +1-978-867-2388 (U.S.)
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New 04/16

For Research Use Only. Not For Use In Diagnostic Procedures.

CellSimple™ System: Cell Analyzer and Cassette Specifications

The following table describes the features and performance specifications for the CellSimple™ Cell Analyzer and CellSimple™ Cassettes.

System Performance	
Detection Parameters	4 (2-color fluorescence, cell count, cell size)
Excitation Laser Wavelength	488 nm
Number of PMTs	2
Optical Detection Range	525/45 nm (e.g., Alexa Fluor® 488) and 561 nm LP (e.g., phycoerythrin (PE))
Particle Count/Size Detection	Impedance-Based (Coulter Principle)
Display	480 x 800 pixels, color touchscreen
Resolution	1000 histogram bins
Data Storage	16 Mb (full histograms and scatter plot data)
Connectivity	USB on-the-go
Data Output	On-system data analysis with optional export of BMP files and FCS compatible raw data files (FCS 3.1, compatible with FlowJo® and other off-line software analysis platforms)
Measurement Modes	
Open Platform	Yes. Open Flow Application allows users to define their own protocols and analysis. <i>Note: requires fluorophores compatible with Optical Detection Range as defined above.</i>
Pre-Defined Assay Protocols	
Cell Based Assays	Yes. Available with custom dye and antibody kits
Bead Based Assays	Software Applications in development. Check www.cellsimple.com for updated software.
Cassette Performance	
Compatible Sample Types	Cells (adherent & non-adherent primary cells or cell lines) and Beads
Number of tests per cassette	2
Sample Volume Required	75 µl
Cell/Bead Diameter Size Range	3 – 16 µm
Cell/Bead Volume Range	14 – 2144 fL
Optimal Concentration for:	
Cell/Bead Counting	1 x 10 ⁴ – 1.75 x 10 ⁶ cells/ml
Fluorescence Detection	1 x 10 ⁵ – 5 x 10 ⁵ cells/ml
Measurement Time	Approximately 10 sec

Software	Includes an instrument-only firmware/software package that drives instrument performance and on-instrument data analysis. <i>Offline analysis requires FCS v3.1 compatible software package for viewing files (e.g., FlowJo® Data Analysis Software)</i>
Physical Attributes	
Benchtop	Yes
Dimensions (HxWxD)	3.7 in x 9.3 in x 8.7 in / 9.4 cm x 22.1 cm x 23.6 cm
Weight	10 lbs / 4.54 kg
Electrical Specifications	
Internal Battery	Rechargeable 3.7 V, 7500 mAh lithium ion
AC Power Adapters (US, EU, and UK types)	Input: 100-240 VAC (50/60 Hz), 0.2 A Output: 5 VDC, 1 A
Operating Environmental Conditions	
Temperature	15-30°C (indoor use only)
Maximum Relative Humidity	20-80% (non-condensing)
Altitude	2000 m (maximum)
Applicable Pollution Degree	Pollution Degree 2
Degree of Ingress Protection	IPX10

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