Cellometer® Spectrum

Specification Sheet

Includes:

- Cellometer Spectrum Image Cytometer
- Cellometer Software
- Two Fluorescence Optics Modules
- Power Supply and Power Cord
- USB 2.0 Connector Cable
- Phone/online applications support during set-up

Available Accessories:

- PC Laptop (includes FCS Express Flow Software from De Novo Software)

Magnification Selection:

- 5x (e.g., most mammalian cells)
- 10x (e.g., yeast, platelets, algae)

Imaging Performance:

	5x Magnification	*10x Magnification*
Cell Size:	5 – 300* microns	0.5 – 15** microns
Conc. Range:	10^5 – 10^7 cells/ml	10^5 – 10^7 cells/ml

Brightfield imaging, fluorescent imaging, and pattern-recognition software to quickly and accurately decluster, identify, and count individual cells.

* Cellometer CHT4-PD300 slides are required for cells > 80 microns in diameter.

** Cellometer CHT4-CD025 slides are required for cells < 20 microns in diameter.

Instrument Specifications:

Weight: 24.0 lbs (10.9 kg)

Dimensions: Width: 6.0″ (15.2 cm)
Depth: 8.5″ (21.6 cm)
Height: 14.0″ (35.6 cm)

Input to Power Adapter: 100-240 VAC, 50/60 Hz, 1.0A

Output to Instrument: 12 VDC, 3.34A

PC/Laptop Minimum Requirements:
(If purchasing instrument without PC Laptop)

- Windows 10
- Intel® i5 (1.6 – 4.40 GHz) Processor
- 10 Core
- 4 GB RAM
- Integrated Graphics Card
- 1080p Display Resolution
- 500 GB Hard Drive
- USB 2.0 Port

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ISO 9001 registered

1001468 Rev C

Fluorescence Optics Modules, Standard:	**S1-534-470** **Excitation/Emission: 475 nm/534 nm** *Example Fluorophores:* • Acridine Orange (AO) • GFP (Green Fluorescent Protein) • Annexin V-FITC	**S1-655-527** **Excitation/Emission: 525 nm/655 nm** *Example Fluorophores:* • Propidium Iodide (PI) • Ethidium Bromide (EB) • 7-AAD
Fluorescence Optics Modules, Available:	**S1-605-527** **Excitation/Emission: 525 nm/605 nm** *Example Fluorophores:* • Propidium Iodide (PI) • Ethidium Bromide (EtBr) • R-phycoerythrin (PE) • RFP (Red Fluorescent Protein) **S1-594-470** **Excitation/Emission: 475 nm/594 nm** *Example Fluorophores:* • Algae (Chlorophyll A and B)	**S1-692-620** **Excitation/Emission: 628 nm/692 nm** *Example Fluorophores:* • Allophycocyanin (APC) • Alexa Fluor® 647 • Cy5™ • SYTOX™ Red **S1-452-365** **Excitation/Emission: 370 nm/452 nm** *Example Fluorophores:* • DAPI • Hoechst • ViaStain™ Dead Cell Nuclear Blue