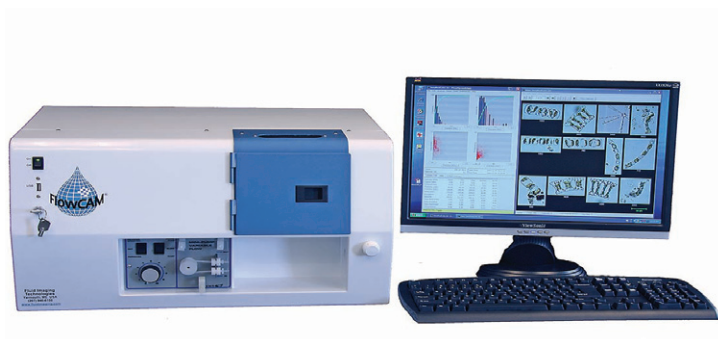




FlowCAM® Specifications



Benchtop FlowCAM



Portable FlowCAM

Note: Specifications for Benchtop and Portable Models are identical, excepting dimensions, weight and power requirements.

Model Number	VS-I	VS-II	VS-IV
Size Range	3µm to 3mm (for shape information, counting down to 0.5µm)		
Camera	Firewire (IEEE 1394) Digital		
Image Type	8-bit Grayscale (Monochrome Camera) or 24-bit Color (Color Camera)		
Image Format	8-bit (monochrome) or 24-bit (color) TIFF		
Magnification Options/Flow Cells Available	◇ 20X (≈ 200X overall magnification). Flow Cells (depth): 50µm, 90µm, 100µm ◇ 10X (≈ 100X overall magnification). Flow Cells (depth): 90µm, 100µm, 300µm ◇ 4X (≈ 40X overall magnification). Flow Cells (depth): 300µm, 600µm ◇ 2X (≈ 20X overall magnification). Flow Cells (depth): 600µm, 800µm, 1000µm ◇ 0.5X (≈ 5X overall magnification). Flow Cells (depth): 800µm, 1000µm, 2000µm		
Scatter Trigger	N/A	✓	✓
Fluorescence Trigger	N/A	N/A	✓
Excitation Wavelength	N/A	N/A	488nm or 532nm (custom configurations available)

Model Number	VS-I	VS-II	VS-IV
Fluorescence Emission Wavelengths	N/A	N/A	◇ 575nm ±15nm(Phycoerithrin) ◇ >650nm (Chlorophyll) ◇ 645nm ±20nm(Phycocyanin) ◇ 525nm ±15nm (FITC) Note: Only 2 per system (Other emission wavelength filters available by custom order.)
Particle Count/Concentration	✓	✓	✓
Particle Size (ESD)	✓	✓	✓
Measured Parameters	◇ Equivalent Spherical Diameter (ESD) ◇ ESD Volume ◇ Area Based Diameter (ABD) ◇ ABD Volume ◇ Length ◇ Width ◇ Aspect Ratio ◇ Transparency ◇ Intensity ◇ Sigma Intensity ◇ Compactness ◇ Elongation ◇ Perimeter ◇ Convex Perimeter ◇ Roughness ◇ Edge Gradient ◇ Average R, G, B (color camera only) ◇ Color Ratios (color camera only)	Same as VS-I, with addition of scatter triggering	Same as VS-II, with addition of fluorescence triggering and: ◇ Ch1 Peak ◇ Ch1 Peak Area ◇ Ch2 Peak ◇ Ch2 Peak Area ◇ Ch3 Peak ◇ Ch3 Peak Area ◇ Ch2/Ch1 Ratio (Ch1 and Ch2 refer to the two fluorescence channels available, whereas Ch3 is the scatter signal channel)
Software Features	VisualSpreadsheet® Software: Patented Interactive Scattergram® (allows selecting of particles directly from any graph or scattergram), automated value and statistical pattern recognition, interactive image-based filtering and sorting, up to 4 simultaneous histograms/scattergrams displayed (from 16 total available), time-series graphing, direct export of all data and summary data to Excel (or any other spreadsheet), print to PDF, automatic classification and filtering during acquisition, remote operation via TCP/IP client, configurable reports.		
Power Requirements	Benchtop: 100-250 VAC, 50/60 Hz Portable: 100-250 VAC, 50/60 Hz or 12V DC		
Dimensions	Benchtop: 21" width X 16" deep X 12" high Portable: 18" width X 15" deep X 26" high (lid open, 14" lid closed)		
Shipping Weight (crated)	Benchtop: 95lbs (60lbs unit only) Portable: 85lbs (40lbs unit only)		