

SE520EXi

2 Lasers
6 Colors



Brilliant In More Ways Than One

To see or not to see....that is the difference between high-end systems and many of the “low-cost” systems on the market today. In order to take the cost out of the product, many of these manufacturers will compromise by using inferior components or eliminating functionality that ensure 20/20 vision: resulting in a cytometer that cannot “read the fine print” in your sample. For routine applications with high antigen density, this may be fine. But in uncharted territory, how do you know what you are missing? Stratedigm has optimized the optical, fluidic and electronic elements to maximize the amount of light generated and collected from the sample, while minimizing the amount of background light that clouds the picture. And, we do it in a way that will not break your budget. The proof is in the data.

Continuous Availability

Uptime is an important consideration in purchasing a cytometer and Stratedigm takes this very seriously—designing in quality and reliability from the get-go. Start with the optical bench—the patented single plate “unibody” construction is the underpinning of a rugged design that performs to-spec even if moved or jostled. The unique HDF assembly eliminates vibrational and temperature-related instability—and as an added bonus it reduces the product weight and number of parts required. Automated software routines for startup, shutdown and other tasks keep the instrument at-the-ready. And, continuous software monitoring of key variables alert you when attention is needed...before it becomes a problem. Our Remote Diagnostics Agent can relay real-time service info and critical performance stats to our service center—improving service levels, uptime, and decreasing costs. The SE520EXi is ready when you are.

Power Within Your Budget

The first family of Stratedigm analyzers designed specifically for essential applications, Stratedigm’s SE520EXi series gives uncompromised performance for flow cytometer users who run demanding, routine applications—without cutting corners. Because when you’re looking for the perfect entry level flow cytometer you should never have to sacrifice dependability and performance just to stay on budget.



Laser

- System is designed to support two lasers with spatial separation
- Lasers:
 - o Solid-state 488 nm - 150 mW
 - o Solid-state 640 nm - 100 mW

Detector Parameters/Data Acquisition

- Forward scatter (FSC) – enables separation of unfixed platelets from noise
 - o FSC resolution: < 500 nm polystyrene beads
 - o FSC scales: log & linear
 - o FSC parameters: width, peak-height, area
 - o Optional FSC photomultiplier (PMT) detector
- Side scatter (SSC) – resolves lympho-, mono- and granulocytes
 - o SSC resolution: < 200 nm polystyrene beads
 - o SSC scales: log & linear
 - o SSC parameters: width, peak-height, area
- Fluorescence channels:
 - o Standard number of colors: 6
 - o Sensitivity: < 100 MESF
 - o Fluorescence resolution: < 2.5% CV
 - o PMT scales: log & linear
 - o PMT parameters: width, peak-height, area
 - o Time: 13 µsec resolution

User Interchangeable Optical Filters

- Blue laser dyes: FITC (530/30), PE (580/30), PerCP/PE-Cy5 (676/29), PE-Cy7 (740LP)
- Red laser dyes: APC (676/29), APC-Cy7 (740LP)

Analysis Rate & Carryover

- Analysis rate: 10,000 events/sec
- Carryover: < 0.1%, automatic backflush between samples

Sample Input

- Dead volume: < 8 µL
- Minimum sample volume: < 20 µL
- Maximum particle size: 40 µm
- Patented low insertion force single tube loading

Fluidics Tray

- Integrated fluidics tray does not increase the footprint of the instrument
- Automated startup, shutdown and cleaning cycles
- Automated decontamination procedure using onboard cleaning solution for all components in contact with sample
- Tank capacity: 4 L sheath, 4 L waste, 4 L auxiliary solution
- Optional automated sheath tank fill and waste drainage

Operating Conditions

- Operating conditions: 60–86 °F (15–30° C)
- Size (including fluidics tray): 21.5" width x 21" depth x 24" height (54.6 cm width x 53.3 cm depth x 61 cm height)
- Weight (including fluidics tray): < 70 lbs (35 kg)
- Power: 110/115/230 VAC, 50–60 Hz