

Innovating...
to exceed your needs!



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 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 Stratemanager™ 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 S1000 is ready when you are.



Future-Proof Your Investment

The Stratedigm S1000 is a future-proof investment—its integrated and modular-design ensures that the architecture is functionally open-ended and that upgrading is economically attractive. Given the diversity of applications, dyes, and labels available today, and the promise of even more tomorrow, the ability to customize your cytometer to your research needs is essential in today’s cost-constrained environment.



Laser

- System is design to support up to 4 lasers with spatial separation
- Laser Options:
 - o Solid State 405nm-50mW
 - o Solid State 488nm-40mW
 - o Solid State 532nm-50mW
 - o Solid State 640nm-40mW
- Custom Laser options:
 - o Solid State 372nm-16mW
 - o Solid State 561nm-50mW
 - o Other lasers available upon request

Detector Parameters/Data Acquisition

- Forward Scatter (FSC) – Enables separation of unfixed platelets from noise
 - o FSC resolution: $1\mu\text{m}$
 - 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: $<.5\mu\text{m}$
 - o SSC scales: log & linear
 - o SSC parameters: width, peak-height, area
- Fluorescence Detectors:
 - o Standard maximum number: 8, software assignable to different lasers
 - o Sensitivity: <100 MESF
 - o Fluorescence resolution: $<2.5\%$ CV
 - o PMT scales: Log & linear
 - o PMT parameters: width, peak-height, area
 - o Time: $13\mu\text{sec}$ resolution

User Interchangeable Optical Filters

- Blue laser dyes: FITC (530/30), PE (580/30), PE-Texas Red (615/30), PerCP/PE-Cy5 (690/40), PE-Cy7 (740LP)
- Red laser dyes: APC (676/29), APC-Cy7 (740LP)
- Green laser dyes: PE (580/30), PE-Texas Red (615/30), PerCP/PE-Cy5 (690/40), PE-Cy7 (740LP)
- Violet laser dyes: Cascade Blue (445/60), Pacific Blue (445/60)
- Other dyes available upon request

Analysis Rate & Carryover

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

Software

- Intuitive user interface-designed to give you the look and feel of the latest MSOffice™ suite
- Flexible compensation – enable real time and post acquisition compensation of data
- Stratemanager™ - enable us to troubleshoot your instrument remotely in real-time
- Simple yet powerful gating control – choose from a variety of gating tools for acquisition storage and analysis
- Several plot types to choose from – allow for histogram overlays, contour plots, density plots and dot plots, all with population overlay

Sample Input

- Dead Volume: $<8\mu\text{L}$
- Minimum sample size: $<20\mu\text{L}$
- Patent pending 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: 4L sheath, 4L waste, 4L auxiliary solution
- Optional automated sheath tank fill and waste drainage

Operating Conditions

- Operating conditions: 41 F – 95 F (5° - 35°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): $<70\text{lbs}$ (35kg)
- Power: 110/115/230 VAC, 50-60Hz