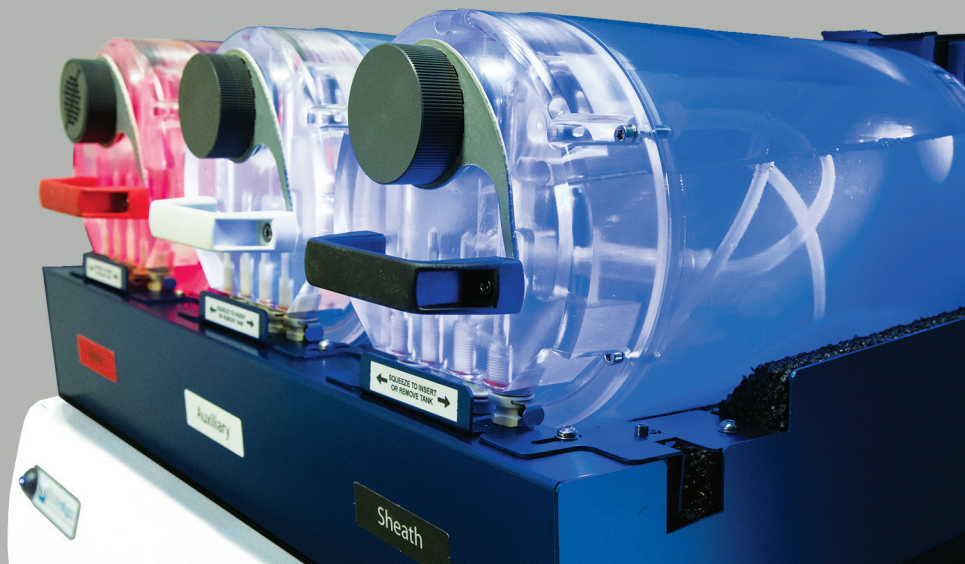


S1000EON

Up to 6 Laser,
30 Parameters
21" x 21" Footprint



True Investment Protection

The S1000EON ushers in a new age of future-proof flow cytometry. Gone are the days of obsolescing hardware and discontinuing service of instruments diminishing ROI. Stratedigm's unlimited upgradeability is unrivaled in the market today; no matter when you purchased your S1000 cytometer, be confident that you'll have access to the latest innovations via field upgrades. The Stratedigm S1000EON integrated and modular design ensures that the architecture is functionally open-ended and that upgrading is simple and economical. 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 modern cost-constrained environments. True to its name, the S1000EON will propel your research for many years to come.

Brilliant In More Ways Than One

Adding more colors and lasers to a newly designed cytometer are standard and logical design improvements. But Stratedigm is anything but standard. Not only did we increase the number of parameters from 22 to 30 and lasers from 4 to 6, we've also doubled our throughput, increased our dynamic range to 5 decades, created more spatially separated interrogation points, and boosted our sensitivity up to 300%! All these major improvements are in the same footprint and at the same price as our 1st S1000 launched in 2008. This is our commitment to Cytometry without Compromise™.

Continuous Availability

Uptime is an important consideration when purchasing a cytometer and Stratedigm takes this very seriously. Our S1000EON is based on the technology we've been developing since 2004; this tried-and-true architecture assures the ultimate in reliability. 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 EPP enclosure eliminates vibrational and temperature-related instability—as an added bonus reduces weight and part count. Automated software routines for startup, shutdown, and other tasks keep the instrument at-the-ready. And, continuous software monitoring of key subsystems alert you when attention is needed...before it becomes a problem. Our industrial IoT-based Remote Diagnostics can relay critical performance statistics to our service center—improving service levels, uptime, and decreasing costs. The S1000EON is ready when you are.

Lasers

System is designed to support up to 6 lasers with 4 points of interrogation

Standard Solid-State Lasers:

- 372 nm – 75 mW
- 405 nm – 100 mW
- 488 nm – 150 mW
- 532 nm – 100 mW
- 552 nm – 100 mW
- 561 nm – 100 mW
- 640 nm – 100 mW
- 805 nm – 100 mW

Other lasers wavelengths and powers available by request.

Detector Parameters/ Data Acquisition

Forward Scatter (FSC) – enables separation of unfixed platelets from noise.

- FSC resolution: < 500 nm polystyrene beads
- FSC scales: log & linear
- FSC parameters: width, peak-height, area
- Optional FSC photomultiplier tube (PMT) detector
- Optional Quad-FSC: 375, 405, 488, and/or 640 nm

Side Scatter (SSC) – resolves lympho-, mono-, and granulocytes.

- SSC resolution: < 200 nm polystyrene beads
- SSC scales: log & linear
- SSC parameters: width, peak-height, area
- Optional Dual-SSC: 405 and/or 488 nm

Fluorescence Channels

- Maximum number of parameters: 30
- Sensitivity: < 80 MESF
- Fluorescence resolution: < 2.5% CV
- PMT scales: log & linear
- PMT parameters: width, peak-height, area
- Time: 13 usec resolution

Analysis Rate & Carryover

- Maximum analysis rate: up to 20,000 events/sec
- Carryover: <0.1%, automatic backflush between samples

Sample Input

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

Fluidics Tray

- Integrated fluidics tray does not increase 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 filling of sheath and drainage of waste tanks

Operating Conditions

- Operating conditions:
 - 60–86° F (15–30° C)
- Size (including fluidics tray):
 - 21.5" W x 21" D x 24" H
 - 54.6 cm x 53.3 cm x 61 cm
- Weight (including fluidics tray):
 - < 74 lbs (35 kg)
- Power:
 - 110/115/230 VAC, 50–60 Hz

Laser	Colors/Filters
372 nm (Near-UV) Laser	BUV395 (405/20), DAPI (440/40), BUV496 (520/40), BUV563 (580/30), BUV661 (676/29), BUV737 (725/40), BUV805 (760LP)
405 nm (Violet) Laser	BV421 (440/40), DAPI (440/40), BV480 (520/40), BV510 (520/40), BV570 (580/30), BV605 (615/30), BV650 (676/29), BV711 (725/40), BV750 (760LP), BV786 (760LP)
488 nm (Blue) Laser	FITC (520/40), PE (580/30), PE-CF594 (615/30), PI (615/30), PE-Cy5 (676/29), PerCP (676/29), PE-Cy5.5 (725/40), PerCP-Cy5.5 (725/40), PE-Cy7 (760LP)
552/561 nm (Yellow) Laser	PE (580/30), PE-CF594 (615/30), PI (615/30), mCherry (615/30), PE-Cy5 (676/29), PE-Cy5.5 (725/40), PE-Cy7 (760LP)
640 nm (Red) Laser	APC (676/29), Alexa 700 (725/40), APC-R700 (725/40), APC-H7 (760LP)
805 nm (IR) Laser	Alexa790/BUV805 (810LP)

Other dyes and filters available upon request.