

Optics	Laser Configuration	Spatially separated beams with 10 x 80 μm elliptical spots
	Optical Alignment Procedure	Fixed, no operator alignment required
	Flow Cell	170 x 290 μm rectangular quartz flow cell
	Scatter Resolution	0.2 μm
	Cell Size	0.2 - 50 μm
	Fluorescence Threshold Sensitivity	FITC < 75 MESF; PE < 50 MESF; APC < 20 MESF
	Fluorescence Resolution	< 3% CV for CEN
	Filters	User Exchangeable
Fluidics	Sample Acquisition Rate	35,000 events/second
	Volumetric Absolute Count Precision	Syringe Pump; CV < 5%
	Sample Flow Rate	5-120 μL/min
	Sheath Flow Rate	6.5 mL/min
	Sample Aspiration Volume	10 μL - 5mL
	Fluid Container Capacity	3 L sheath, 3 L waste, 500 mL cleaning, 500 mL decontamination
	Carryover	< 0.1%
	Fluidics Maintenance	Automated startup, cleaning, decontamination and shutdown
Data Processing	Parameters	Height and Area for FSC, SSC and all Fluorescence Channels, Width and Time
	Dynamic Range	24 bit; 7.2 decades logarithmic scale; no need for PMT voltage adjustment
	Compensation	Automatic compensation, manual compensation, visual compensation tools available for pre/post/live acquisitions
	Output Data Formats	FCS3.1, NovoExpress(.ncf), PDF reports, bitmap graphics, vector graphics, CSV
	Workstation	Dell OptiPlex 7040 SFF, 1 TB with 23.8" LCD monitor
	Computer Operating System	Microsoft Windows® 7 Professional (64 bit) and Microsoft Office® 2016
	Software	ACEA NovoExpress®
Sampling	Manual Sample Loading	12 X 75mm tube, 1.5mL Eppendorf tube
	Automatic Sample Loading	Optional - compatible with 12 x 75 mm tube, 1.5 & 2mL tubes, "bullet" tubes in 96-pos. racks, 24-well, 48-well and 96-well microtiter plates
Operating Conditions	Instrument Dimension (W X D X H)	23.6 x 17.7 x 15.4 in (60 x 45 x 39 cm)
	Instrument Weight	86 lb (39 kg)
	Power Requirements	100/115/230VAC, 50-60 Hz
	Environment Requirements	Temperature: 15-32°C; Relative Humidity: 80% maximum

*Some specifications and performance claims were validated using certain conditions.

Configurable Laser Systems

Standard Systems

Model Number		1000	2000R		2060R		3000		
Lasers		488nm	488nm	640nm	488nm	640nm	405nm	488nm	640nm
Detectors	445/45 nm						•		
	530/30 nm	•	•		•		•	•	
	572/28 nm	•	•		•		•	•	
	615/20 nm						•	•	
	675/30 nm	•	•	•	•	•	•	•	•
	780/60 nm				•	•	•	•	•

Yellow Laser Systems

Model Number		2100YB		3000YB			3000RYB		
Lasers		488nm	561nm	405nm	561nm	488nm	640nm	561nm	488nm
Detectors	445/45 nm			•					
	530/30 nm	•		•		•			•
	586/20 nm	•	•	•	•			•	•
	615/20 nm	•	•	•	•	•		•	•
	660/20 nm	•	•	•	•	•	•	•	•
	695/40 nm	•	•	•	•		•	•	•
	780/60 nm		•	•	•		•	•	

Compatible Fluorochromes

NovoCyte® 3000 RYB Channels

FL Channel	640nm			561nm				488nm					
	APC Alexa Fluor® 647	Alexa Fluor® 700	APC-Cy™7	PE	PE-Texas Red® mCherry	PE-Cy™5 mPlum	PE-Cy™5	PE-Cy™7	FITC eGFP	EYFP	Propidium Iodide	PerCP 7-AAD	PerCP-Cy™5.5
530/30 nm									•				
586/20 nm				•						•			
615/20 nm					•						•		
660/20 nm	•					•						•	
695/40 nm		•					•						•
780/60 nm			•				•						•

NovoCyte® 3000 VYB Channels

FL Channel	405nm						561nm				488nm		
	Pacific Blue™ Brilliant Violet 421	AmCyan Brilliant Violet 510	Pacific Orange™ Brilliant Violet 570	Qdot® 605 Brilliant Violet 605	Qdot® 655 Brilliant Violet 650	Qdot® 800 Brilliant Violet 785	PE tdTomato	PE-Texas Red® mCherry	PE-Cy™5 mPlum	PE-Cy™7	FITC eGFP	Propidium Iodide	PerCP 7-AAD
445/45 nm	•												
530/30 nm		•									•		
586/20 nm			•				•						
615/20 nm				•				•				•	
660/20 nm					•				•				•
780/60 nm						•			•				•

NovoCyte® 3000 Channels

FL Channel	405nm						640nm		488nm				
	Pacific Blue™ Brilliant Violet 421	AmCyan Brilliant Violet 510	Pacific Orange™ Brilliant Violet 570	Qdot® 605 Brilliant Violet 605	Qdot® 655 Brilliant Violet 650	Qdot® 800 Brilliant Violet 785	APC	APC-Cy™7	FITC eGFP	PE	PE-Texas Red	PerCP 7-AAD	PE-Cy7
445/45 nm	•												
530/30 nm		•							•				
572/28 nm			•							•			
615/20 nm				•							•		
675/30 nm					•		•					•	
780/60 nm						•		•					•