

SORTERS

Machine	Lasers (nm)	Laser Power (mW)	Filters		Example Fluorochromes
			BP	LP	
BD FACS Aria III	488	20	530/30	502	CFSE, GFP, Oregon Green 488, Alexa Fluor 488, FITC, BB515
			585/15	556	tdTomato, RFP, dsRed, PE
			616/23	610	PE-eFluor 610, 7-AAD, PI, PE-Texas Red, PECF594
			695/40	655	PerCP-eFluor 710, PE-Cy5.5, PerC-Cy5.5, PerCP, PE-Cy5, BB700
			780/60	735	PE-Cy7
	633	18	660/20	---	eFluor 660, Alexa Fluor 647, APC
			730/45	690	iRFP, Alexa Fluor 700
780/60			755	APC-eFluor 780, APC-H7, APC-Cy7	
BD FACS Aria Fusion	405	80	450/50	---	DAPI, eFluor 450, BFP, V450, Brilliant Violet 421, Pacific Blue
			525/50	505	eFluor 506 Fixable, AmCyan
			610/20	595	Brilliant Violet 605, eFluor 625NC, eVolve 605
			660/20	630	Brilliant Violet 650, eVolve 655, eFluor 650NC
			710/50	690	Brilliant Violet 711
			780/60	750	Brilliant Violet 786
	488	50	530/30	502	CFSE, GFP, Oregon Green 488, Alexa Fluor 488, FITC, BB515
			695/40	655	PerCP-eFluor 710, PerCP-Cy5.5, PerCP
	561	50	582/15	---	PE, BYG 584, CTY
			610/20	600	PE-CF594, PEDazzle, PETex Red, ECD, PE Efl610
			670/14	630	PE-Cy5
			710/50	685	PE-Cy5.5
	633	100	780/60	735	PE-Cy7, PEVio770
			670/30	---	eFluor 660, Alexa Fluor 647, Alexa Fluor 660, APC
			730/45	690	iRFP, APC-Cy5.5, Alexa Fluor 680, Alexa Fluor 660, Alexa Fluor 700
			780/60	755	APC-eFluor 780, APC-Alexa 750, APC-H7, APC-Cy7

BASIC ANALYZERS

Machine	Lasers (nm)	Laser Power (mW)	Filters		Example Fluorochromes
			BP	LP	
BD Canto II	405	30	450/50	---	eFluor 450, BFP, V450, Brilliant Violet 421, Pacific Blue
			510/50	502	eFluor 506 Fixable Viability, AmCyan
	488	20	530/30	502	CFSE, GFP, Oregon Green 488, Alexa Fluor 488, FITC, BB515
			585/42	556	PE, PI,
			---	670LP & 735SP	PerCP-Cy5.5, PerCP, 7-AAD
	633	17	780/60	735	PE-Cy7
			660/20	---	eFluor 660, Alexa Fluor 647, APC
			780/60	735	APC-eFluor 780, APC-H7, APC-Cy7
Cytotflex	405	70	450/45	---	(PB450) Pacific Blue, Brilliant Violet 421, eFluor 450, BFP, V450
			780/60	---	(Violet 780) Brilliant Violet 786
	488	50	525/40	---	(FITC) CFSE, GFP, Oregon Green 488, Alexa Fluor 488, FITC, BB515
			585/42	---	(PE) PE, PI
			690/50	---	(PC5.5) 7-AAD, PerCP-Cy5.5, PerCP-Vio700
	638	50	660/20	---	(APC) eFluor 660, Alexa Fluor 647, APC
			712/25	---	(APC-A700) iRFP, APC-Cy5.5, Alexa Fluor 700
			780/60	---	(APC-A750) APC-eFluor 780, APC-H7, APC-Cy7
Additional information: instrument has a plate reader that can sample from 96 well plates (U-, V-, and flat-bottomed)					

BD Celesta	405	50	450/40	---	eFluor 450, BFP, V450, Brilliant Violet 421, Pacific Blue
			525/50	505	eFluor 506 Fixable, Brilliant Violet 510, AmCyan, Vio Green
			610/20	595	Brilliant Violet 605, eFluor 625NC, eVolve 605
			670/30	655	Brilliant Violet 650, eVolve 655, eFluor 650NC
			780/60	750	Brilliant Violet 786
	488	20	530/30	505	FITC, GFP, Oregon Green 488, Alexa Fluor 488, BB515, CFSE
			575/25	550	PE, PI
			695/40	670	7-AAD, PerCP-Cy5.5, PerCP-Vio700
			780/60	750	PE-Cy7, PE-Vio770
	640	40	670/30	---	eFluor 660, Alexa Fluor 647, Alexa Fluor 660, APC,
			730/45	690	iRFP, APC-Cy5.5, Alexa Fluor 680, Alexa Fluor 660, Alexa Fluor 700
			780/60	750	APC-eFluor 780, APC-Alexa 750, APC-H7, APC-Cy7, APC Fire

HIGH PARAMETER ANALYZERS

Machine	Lasers (nm)	Laser Power (mW)	Filters		Example Fluorochromes
			BP	LP	
BD LSR Fortessa SORP	405	100	440/40	---	eFluor 450, BFP, V450, Brilliant Violet 421, Pacific Blue
			525/50	505	eFluor 506 Fixable, AmCyan
			575/26	550	Brilliant Violet 570
			605/20	595	Brilliant Violet 605, eFluor 625NC, eVolve 605
			660/20	640	Brilliant Violet 650, eVolve 655, eFluor 650NC
			710/40	685	Brilliant Violet 711
			750/30	735	Brilliant Violet 750
			783/40	760	Brilliant Violet 786
	488	60	515/20	505	CFSE, GFP, Oregon Green 488, Alexa Fluor 488, FITC, BB515
			710/50	685	PerCP-eFluor 710, PerCP-Cy5.5, PerCP
	532	150	575/25	---	Cy3, Alexa Fluor 532, PE
			610/20	600	mCherry, PE-eFluor 610, PI, PE-Texas Red, PECF594
			660/40	640	PE-Alexa Fluor 647, PE-Cy5, 7-AAD
			710/50	690	PE-Alexa 700, PE-Cy5.5
	628	200	780/40	740	PE-Alexa 750, PE-Cy7
670/30			---	eFluor 660, Alexa Fluor 647, Alexa Fluor 660, APC	
730/45			685	iRFP, APC-Cy5.5, Alexa Fluor 680, Alexa Fluor 660, Alexa Fluor 700	
			780/60	740	APC-eFluor 780, APC-Alexa 750, APC-H7, APC-Cy7
BD Symphony A5	355	60	378/29	---	BUV395
			515/30	450	BUV496
			586/15	550	BUV563
			610/20	600	BUV615
			670/30	635	BUV661
			740/35	690	BUV737
			820/60	770	BUV805
	405	100	450/50	410	BV421, Efluor 450, CTV
			474/25	450	BV480
			586/15	550	BV570, V575
			610/20	600	BV605
			670/30	635	BV650
			710/50	685	BV711
			740/35	710	BV750
			780/60	750	BV786
	488	100	488/10	---	SSC
			530/30	505	FITC, BB515, Alx488
			610/20	600	BB630

	488	488	670/30	635	BB660
			710/50	685	BB700, PerCPCy55
			780/60	750	BB790
	561	200	586/15	570	PE, BYG 584, CTY
			610/20	600	PE-CF594, PEDazzle, PETex Red, ECD, PE Efl610
			670/30	635	PE-Cy5
			710/50	690	PE-Cy5.5
			780/60	750	PE-Cy7, PEVio770
	628	200	670/30	---	APC, Al647
			730/45	710	Alexa700
			780/60	750	APC-Cy7, APCEfl780, APC Vio770

IMAGING ANALYZER

Machine	Lasers (nm)	Power (mW)	Channel	Bandpass	Example Fluorophores
Amnis Image Stream	488 & 561 (Camera 1)	200 & 200	1	457/45	Brightfield
			2	528/65	FITC, AF488, CFSE, GFP, Oregon Green 488, BB515
			3	577/35	PE, BYG 584, AF546, DSRed
			4	610/30	PE-Texas Red, ECD, RFP, AF568, mCherry, PE-AF610
			5	702/85	PerCP-Cy5.5, PE-Cy5.5, PE-Cy5, PE-AF647, PI
			6	762/35	(SSC) PE-Cy7, PE-AF750
	405 & 642 (Camera 2)	120 & 150	7	457/45	DAPI, BV421, AF405, Pacific Blue
			8	537/65	BV510, Pacific Orange
			9	582/25	Brightfield
			10	610/30	BV605
			11	702/85	APC, AF647, AF660, AF700, Draq5, BV711
			12	762/35	(SSC) AF750, APC-Cy7, APC-eFlour750
*Note - Lasers are co-linear on each camera in the Image Stream					
Additional information: Magnifications 20X, 40X and 60X available; Extended Depth of Field (EDF) available					