

# Instruments

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## BD Arial II (4 Lasers) - Sorter

BD FACS Aria II SORP Sorter				
Laser	Wavelength	Filters (Bandpass)	Dichroic Mirrors (SP/LP)	Parameter(Eg)
UV	355nm	740/35	690LP	BUV737
		450/50	410LP	DAPI
		379/28	N.A	Indo-1(Violet)
Violet	405nm	780/60	750LP	BV786
		710/50	690LP	BV711
		660/20	630LP	BV650
		610/20	595LP	BV605
		525/50	505LP	BV510
		450/40	N.A	CFP
Blue	488nm	710/50	685LP	PE-Cy5.5
		545/35	525LP	YFP
		530/30	505LP	GFP
		488/10	N.A	SSC
Yellow-Green	561nm	780/60	755LP	PE-Cy7
		660/20	635LP	PE-Cy5
		610/20	600LP	mCherry
		585/15	N.A	PE
Red	640nm	780/60	755LP	APC-Cy7
		670/30	N.A	APC

## BD FACSSymphony (6 Lasers) – Analyzer

LASER	WAVELENGTH (nm)	POWER (mW)	DETECTOR	CHANNEL	MIRROR	FILTER	PARAMETER	FLUOROCHROME CHOICES
UV	355	60	A	29	785 LP	800/60 BP	UV 1	BUV805
			B	30	755 LP	780/60 BP	UV 2	
			C	31	740 LP	750/30 BP	UV 3	
			D	32	690 LP	730/50 BP	UV 4	BUV737
			E	33	650 LP	670/50 BP	UV 5	BUV661
			F	34	605 LP	615/25 BP	UV 6	BUV615-P
			G	35	570 LP	585/30 BP	UV 7	BUV563
			H	36	530 LP	530/50 BP	UV 8	
			I	37	495 LP	510/40 BP	UV 9	
			J	38	455 LP	465/29 BP	UV 10	BUV496
			K	39	410 LP	442/43 BP	UV 11	DAPI, Hoechst33258, FVS440UV
			L	40	370 LP	379/34 BP	UV 12	BUV395
Violet	405	250	A	17	785 LP	800/60 BP	Violet 1	
			B	18	755 LP	780/60 BP	Violet 2	BV786, BV785
			C	19	740 LP	750/30 BP	Violet 3	BV750
			D	20	690 LP	710/50 BP	Violet 4	BV711
			E	21	650 LP	670/50 BP	Violet 5	BV650
			F	22	605 LP	615/25 BP	Violet 6	BV605
			G	23	590 LP	595/33 BP	Violet 7	
			H	24	570 LP	585/30 BP	Violet 8	BV570, Pacific Orange
			I	25	525 LP	530/50 BP	Violet 9	
			J	26	495 LP	510/30 BP	Violet 10	BV510, BV500, FV5510, Amcyan
			K	27	455 LP	465/29 BP	Violet 11	BV480
			L	28	410 LP	442/43 BP	Violet 12	BV421, Pacific Blue, FVS450
Blue	488	400	A	1	785 LP	800/60 BP	Blue 1	
			B	2	750 LP	770/40 BP	Blue 2	BB790-P
			C	3	690 LP	710/50 BP	Blue 3	BB755-P
			D	4	670 LP	680/30 BP	Blue 4	BB700-P
			E	5	650 LP	660/30 BP	Blue 5	BB660-P
			F	6	590 LP	610/30 BP	Blue 6	BB630
			G	7	570 LP	585/30 BP	Blue 7	
			H	8	525 LP	530/50 BP	Blue 8	BB515, FITC, FVS520, GFP, EGFP, Sytox Green
			I	9	495 LP	510/30 BP	Blue 9	BB515
			J	10		488/10 BP	SSC	SSC
YG	532	200	A	41	800 LP	800/60 BP	Green 1	
			B	42	735 LP	780/60 BP	Green 2	BYG790-P, PE-Cy7
			C	43	715 LP	750/40 BP	Green 3	
			D	44	695 LP	725/20 BP	Green 4	
			E	45	670 LP	700/40 BP	Green 5	
			F	46	650 LP	680/30 BP	Green 6	PE-Cy5.5
			G	47	590 LP	660/30 BP	Green 7	
			H	48	570 LP	610/30 BP	Green 8	PE-CF594, PE-Texas Red, mCherry, FVS620, Alexa 568, Alexa 594
			I	49	525 LP	580/20 BP	Green 9	PE, mOrange, RFP, Alexa 532
Red	628	200	A	11	805 LP	820/30 BP	Red 1	
			B	12	760 LP	780/60 BP	Red 2	APC-Cy7
			C	13	740 LP	750/60 BP	Red 3	
			D	14	695 LP	710/50 BP	Red 4	Alexa Fluor 700, APC-R700, FVS700, Alexa 680, (Alexa 660)
			E	15	670 LP	680/30 BP	Red 5	Alexa 660
			F	16	650 LP	660/30 BP	Red 6	APC, Alexa 633, Alexa 633

## BD LSR II (4 Lasers)

Violet		
405	450/50	BV421 Pacific Blue
505LP	525/50	BV510, Pacific Orange
600LP	610/20	BV605
630LP	660/20	BV655
690LP	710/50	BV711, Odot 711
750LP	780/60	BV786
Blue		
488	488/10	SSC
	530/30	FITC, AF488
	695/40	PerCP
550LP	575/26	PE-CY7
735LP	780/60	PE
Red		
640	660/20	APC, AF647
	780/60	APC-Cy7, APC-H7
UV		
355	730/45	BUV737
	450/50	DAPI
	379/28	BUV395

Cytek Aurora (3 Lasers)

Supported Fluorochromes			
Laser (nm)	Primary Detector	Fluorochrome	Emission Max (nm)
488	B2	BD Horizon™ BB515	515
		<b>Alexa Fluor® 488</b>	520
	B3	FITC	520
		<b>Alexa Fluor® 532</b>	550
	B5	<b>PE</b>	576
	B6	BD Horizon™ PE-CF594	610
		<b>PE/Dazzle™ 594</b>	610
		PE-eFluor® 610	610
		PE-Texas Red®	625
		PE-Alexa Fluor® 610	630
	B8	<b>PE-Cy™5</b>	668
		PE-Cy™5.5	680
	B9	PerCP	680
		<b>PerCP-Cy™5.5</b>	680
	B10	BD Horizon™ BB700	695
		PE-Alexa Fluor® 700	720
B14	<b>PerCP-eFluor® 710</b>	730	
	<b>PE-Cy™7</b>	780	
640	R2	<b>APC</b>	660
		eFluor® 660	660
	R4	Alexa Fluor® 647	668
		APC-Cy™5.5	680
	R5	BD Horizon™ APC-R700	705
		<b>Alexa Fluor® 700</b>	720
	R8	<b>APC/Fire™ 750</b>	780
		APC-Cy™7	780
APC-eFluor® 780		780	
BD™ APC-H7		780	
405	V1	<b>Brilliant Violet 421™</b>	421
	V2	Super Bright 436	436
	V3	eFluor® 450	450
		BD Horizon™ V450	450
	V4	<b>Pacific Blue™</b>	455
		BD Horizon™ BV480	480
	V5	<b>Brilliant Violet 510™</b>	510
		eFluor® 506	510
	V8	BD Horizon™ V500	510
		<b>Pacific Orange™</b>	550
	V9	<b>Brilliant Violet 570™</b>	570
	V10	Super Bright 600	600
		<b>Brilliant Violet 605™</b>	605
		eVolve® 605	605
		Qdot® 605	605
	V11	Super Bright 645	645
<b>Brilliant Violet 650™</b>		650	
eVolve® 655		655	
Qdot® 655		655	
V13	Super Bright 702	702	
	Qdot® 705	705	
V14	<b>Brilliant Violet™ 711</b>	711	
V16	Brilliant Violet 750™	750	
	<b>Brilliant Violet 785™</b>	785	
	BD Horizon™ BV786	786	
		Qdot® 800	790