

# BD FACSymphony™ Family of Instruments

## Configuration Guide

Customized solutions for high-parameter cell analysis

BD is the home of high-performance instruments for high-parameter flow cytometry, and the BD FACSymphony family of instruments are designed to help you drive your scientific research forward across a wide range of applications.

As part of the Special Order Research Program at BD, the BD FACSymphony A5 and A3 Analyzers and the BD FACSymphony S6 Cell Sorter are extremely flexible in both excitation and emission optics. Choose from more than 25 laser wavelength options at

various power levels and a seemingly endless number of combinations of filters and detector arrangements, and let us build a system that meets your application needs.

We recognize that having many choices can be daunting, so here's some guidance to get you started. Contact your local BD Representative for a full discussion on options within the BD FACSymphony family of instruments.

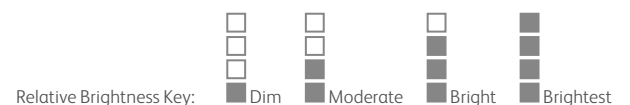


# 5 Laser, 30-Color Conventional Configuration

8 Ultraviolet detectors, 8 violet, 7 blue (includes SSC), 5 yellow-green, 3 red

Excitation Laser Line	Channel	Long Pass	Filter	Fluorochrome	Ex-Max (nm)	Em-Max (nm)	Relative Brightness
UV 355 nm	1	•	379/28 †	<b>BD Horizon™ BUV395</b>	348	395	■ ■ ■ ■
	2	410	450/50	<b>DAPI</b>	358	461	•
	3	450	515/30	<b>BD Horizon BUV496</b>	348	496	■ ■ ■ ■
	4	550	586/15	<b>BD Horizon BUV563</b>	348	563	■ ■ ■ ■
	5	600	610/20	<b>BD Horizon BUV615</b>	349	616	■ ■ ■ ■
	6	635	670/30	<b>BD Horizon BUV661</b>	348	661	■ ■ ■ ■
	7	690	740/35	<b>BD Horizon BUV737</b>	348	737	■ ■ ■ ■
	8	770	820/60	<b>BD Horizon BUV805</b>	348	805	■ ■ ■ ■
Violet 405 nm	9	410	431/28 †	<b>BD Horizon BV421</b>	407	421	■ ■ ■ ■
				<b>BD Horizon V450</b>	404	448	■ ■ ■ ■
	10	450	470/14	<b>BD Horizon BV480</b>	436	478	■ ■ ■ ■
				<b>BD Horizon V500</b>	415	500	■ ■ ■ ■
				<b>BD Horizon BV510</b>	405	510	■ ■ ■ ■
	11	550	586/15	<b>BD Horizon BV570</b>	407	574	■ ■ ■ ■
	12	600	610/20	<b>BD Horizon BV605</b>	407	602	■ ■ ■ ■
	13	635	670/30	<b>BD Horizon BV650</b>	407	650	■ ■ ■ ■
14	690	710/50	<b>BD Horizon BV711</b>	407	711	■ ■ ■ ■	
15	740	750/30	<b>BD Horizon BV750</b>	407	748	■ ■ ■ ■	
16	750	780/60	<b>BD Horizon BV786</b>	407	786	■ ■ ■ ■	
Blue 488 nm	17	•	488/10	<b>SSC</b>	•	•	•
	18	505	515/20 †	<b>BD Horizon BB515</b>	490	515	■ ■ ■ ■
				<b>Alexa Fluor® 488</b>	495	519	■ ■ ■ ■
				<b>FITC</b>	494	519	■ ■ ■ ■
	19	600	610/20	<b>BD Horizon BB630-P2</b>	484	631	■ ■ ■ ■
	20	635	670/30	<b>BD Horizon BB660-P2</b>	484	667	■ ■ ■ ■
	21	690	710/50	<b>PerCP</b>	482	678	■ ■ ■ ■
				<b>BD Horizon BB700</b>	484	695	■ ■ ■ ■
<b>PerCP-Cy™5.5</b>				482	695	■ ■ ■ ■	
22	730	750/30	<b>BD Horizon BB755-P</b>	475	754	■ ■ ■ ■	
23	770	780/60	<b>BD Horizon BB790-P</b>	484	793	■ ■ ■ ■	
Yellow-Green 561 nm	24	570	586/15 †	<b>BD Horizon BYG584-P</b>	563	584	■ ■ ■ ■
				<b>PE</b>	496	578	■ ■ ■ ■
	25	600	610/20	<b>BD Horizon PE-CF594</b>	564	612	■ ■ ■ ■
	26	650	670/30	<b>PE-Cy5</b>	564	667	■ ■ ■ ■
	27	690	710/50	<b>PE-Cy5.5</b>	565	693	■ ■ ■ ■
28	750	780/60	<b>PE-Cy7</b>	564	785	■ ■ ■ ■	
Red 637 nm	29	650	670/30	<b>APC</b>	650	660	■ ■ ■ ■
				<b>Alexa Fluor 647</b>	650	668	■ ■ ■ ■
	30	690	710/50	<b>BD Horizon APC-R700</b>	652	704	■ ■ ■ ■
				<b>Alexa Fluor 700</b>	696	719	■ ■ ■ ■
	31	750	780/60	<b>APC-Cy7</b>	650	785	■ ■ ■ ■
				<b>BD APC-H7</b>	650	785	■ ■ ■ ■

**Note:** † Additional colored glass filters are included for these channels to help block incident laser light.



## Other Common Lasers

Laser	Application
445 nm	Fluorescent proteins, especially CFP; Alexa Fluor 430
457 nm	DNA content with chromomycin A3
514 nm	Yellow fluorescent protein
532 nm	Alternate yellow green laser for excitation of PE and fluorescent proteins
785 nm/805 nm	Melanocyte fluorescence and biotum dyes

## Common Alternate Filters

Laser Line	Filter	Applications
Violet	450/40	Provides flexibility in the first violet channel to run BV421, V450 or Pacific Blue™ Dye, (Pac Blue™).
Violet	525/40	Provides better sensitivity for BV510, but reduces sensitivity for BV480
Yellow-Green	582/15	Fluorescent proteins mOrange2, tdTomato, mApple
Blue	510/20	GFP

## Other Options for the BD FACSymphony Family

Contact your local BD Representative for a full discussion on options

BD FACSymphony Analyzers	
Description	Cat. No.
BD FACFlow™ Supply System	649908
BD High Throughput Sampler	658946
FACSymphony Analyzer & Workstation Tables	642529
Quantiflash LED Pulsar	662644*
Quantiflash kit for FACSymphony A3/A5	663165*

BD FACSymphony S6 Cell Sorter	
Description	Cat. No.
The Baker Co Biosafety Cabinet	657590
FACSymphony S6 Workstation Table	664320

\* NOTE: Cat. No. 662644 and 663165 must be ordered together

**Australia**

Toll free 1.800.656.100  
Tel 61.2.8875.7000  
Fax 61.2.8875.7200

**Canada**

Tel 866.979.9408  
Fax 888.229.9918

**China**

Tel 86.21.3210.4610  
Fax 86.21.5292.5191

**Europe**

Tel 32.2.400.98.95  
Fax 32.2.401.70.94

**India**

Tel 91.124.2383566  
Fax 91.124.2383224/25/26

**Japan**

**Nippon Becton Dickinson**

Toll free 0120.8555.90  
Fax 81.24.593.3281

**Latin America / Caribbean**

Toll free 0800.771.71.57  
Tel 55.11.5185.9688

**New Zealand**

Toll free 0800.572.468  
Tel 64.9.574.2468  
Fax 64.9.574.246

**Singapore**

Tel 65.6690.8691  
Fax 65.6860.1593

**United States**

U.S. orders 855.236.2772  
Technical Service 877.232.8995  
Fax 800.325.9637

Office locations are available on our website.

Class 1 Laser Product.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

Cy™ dyes are subject to proprietary rights of GE Healthcare and Carnegie Mellon University, and are made and sold under license from GE Healthcare only for research and in vitro diagnostic use. Any other use requires a commercial sublicense from GE Healthcare, 800 Centennial Avenue, Piscataway, NJ 08855-1327, USA.

23-22558-00

BD Life Sciences, San Jose, CA, 95131, USA

[bdbiosciences.com](http://bdbiosciences.com)

