

Optical configuration

Introduction

The BD FACSDiscover™ S8 cell sorter is available in the following optical configuration:

Configuration	Lasers
5 laser	Blue, Red, Violet, Yellow Green, and Ultraviolet

Optical filter layout

The term "detector" refers to any of the 3 different types of detectors on the instrument: photodiode (PD), photomultiplier tube (PMT), or avalanche photodiode (APD). See [Optical specifications \(page 370\)](#).

The following table shows the default optical filter layout for BD FACSDiscover™ S8 cell sorter:

	Detector Name	Band Pass Filter
Blue	B1 (500)	501/16
	B2 (515)	517/16
	B3 (530)	532/16
	B4 (545)	547/16
	B5 (575)	574/16
	B6 (590)	590/16
	B7 (605)	607/18
	B8 (625)	625/18
	B9 (655)	655/20
	B10 (675)	675/20
	B11 (700)	698/26
	B12 (725)	724/16
	B13 (750)	752/30
	B14 (780)	782/30
	B15 (810)	812/30
	B16 (845)	844/34

	Detector Name	Band Pass Filter
Imaging	FSC	N/A
	SSC (Imaging)	488/15
	Light Loss (Imaging)	488/5
	ImgB1 (535)	534/46
	ImgB2 (600)	600/60
	ImgB3 (790)	788/225
Red	R1 (655)	655/20
	R2 (675)	675/20
	R3 (700)	698/26
	R4 (725)	724/26
	R5 (750)	752/30
	R6 (780)	782/30
	R7 (810)	812/30
	R8 (845)	844/34

	Detector Name	Band Pass Filter
Ultraviolet	UV1 (375)	375/20
	UV2 (390)	392/14
	UV3 (420)	420/20
	UV4 (440)	440/20
	UV5 (460)	459/18
	UV6 (475)	476/18
	UV7 (500)	501/16
	UV8 (515)	517/16
	UV9 (530)	532/16
	UV10 (545)	547/16
	UV11 (575)	574/16
	UV12 (590)	590/16
	UV13 (605)	607/18
	UV14 (625)	625/18
	UV15 (655)	655/20
	UV16 (675)	675/20
	UV17 (700)	698/26
	UV18 (725)	724/26
	UV19 (750)	752/30
	UV20 (780)	782/30
	UV21 (810)	812/30
	UV22 (845)	844/24

	Detector Name	Band Pass Filter
Violet	SSC (Violet)	405/15
	Lightloss (Violet)	405/5
	V1 (420)	420/20
	V2 (440)	440/20
	V3 (460)	459/18
	V4 (475)	476/16
	V5 (500)	501/16
	V6 (515)	517/16
	V7 (530)	532/16
	V8 (545)	547/16
	V9 (575)	574/16
	V10 (590)	590/16
	V11 (605)	607/18
	V12 (625)	625/18
	V13 (655)	655/20
	V14 (675)	675/20
	V15 (700)	698/26
	V16 (725)	724/26
	V17 (750)	752/30
	V18 (780)	782/30
	V19 (810)	812/30
	V20 (845)	844/34

	Detector Name	Band Pass Filter
Yellow Green	YG1 (575)	574/16
	YG2 (590)	590/16
	YG3 (605)	607/18
	YG4 (625)	625/18
	YG5 (655)	655/20
	YG6 (675)	675/20
	YG7 (700)	698/26
	YG8 (725)	724/26
	YG9 (750)	752/30
	YG10 (780)	782/30
	YG11 (810)	812/30
	YG12 (845)	844/34