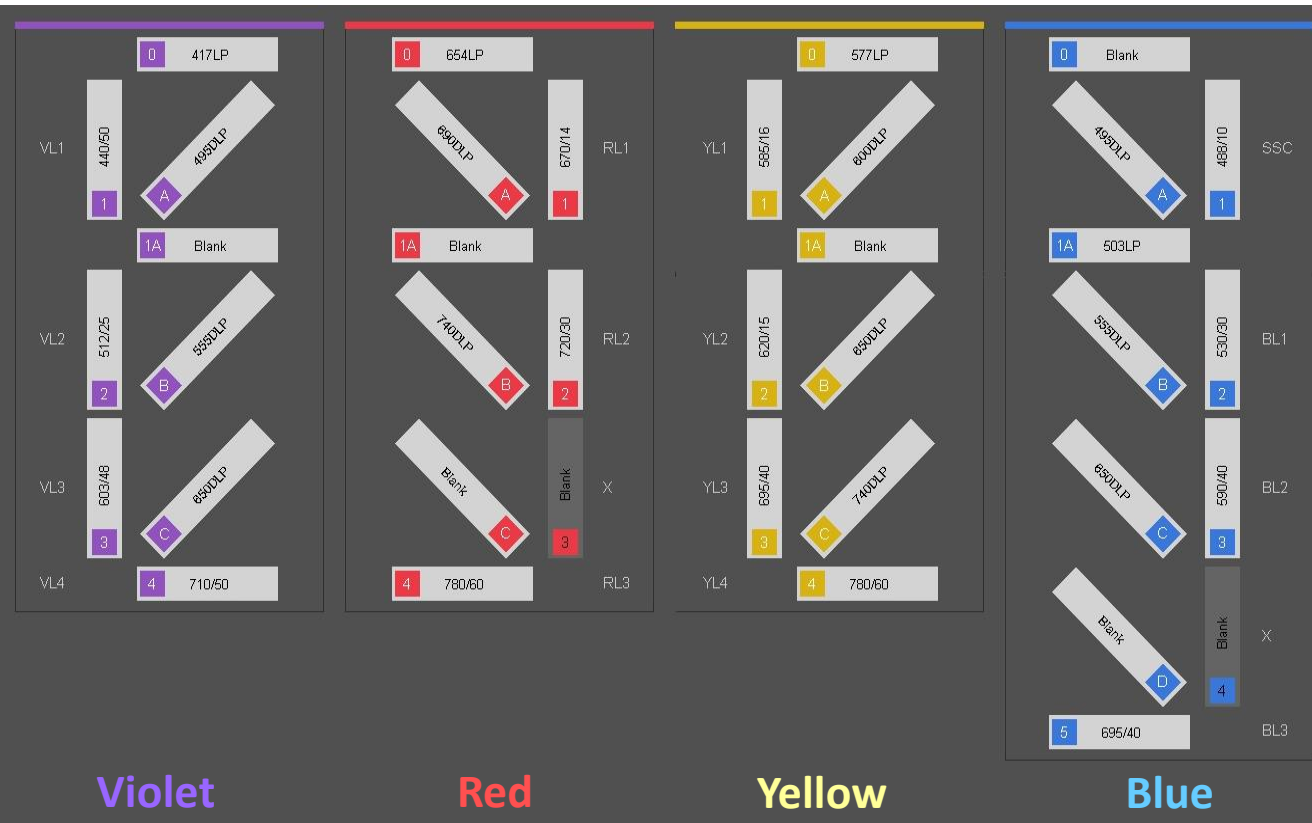


ThermoFisher Attune NxT Optical Configuration

Violet 405 nm 50 mW
 Blue 488 nm 50 mW
 Yellow 561 nm 50 mW
 Red 637 nm 100 mW

16 parameters
(14 fluorescent detectors)



Excitation Laser	Channel	Dichroic Mirror (nm)	Emission Filter (nm)
Violet	VL1	417 LP	440/50
	VL2	495 DLP	512/25
	VL3	555 DLP	603/48
	VL4	650 DLP	710/50
Blue	BL1	495 DLP	530/30
	BL2	555 DLP	590/40
	BL3	650 DLP	695/40
Yellow	YL1	577 LP	585/16
	YL2	600 DLP	620/15
	YL3	650 DLP	695/40
	YL4	740 DLP	780/60
Red	RL1	654 LP	670/14
	RL2	690 DLP	720/30
	RL3	740 DLP	780/60

Default Filters for Configuration ThermoFisher_Attune NxT_14-COLOR_20201216

Lasers	Detector Name	Dichroic Mirror	Bandpass Filter	Sample Parameters / Fluorochromes
Violet	VL1	417 LP	440/50	BV421; SB436; Pacific Blue; Horizon V450; AF405; eFluor 450; CFP; DC Violet; SYTOX Blue; CellTrace calcein Violet AM; L/D/F Violet; DAPI
	VL2	495 DLP	512/25	BV480; BV510; AmCyan; eFluor 506; Pacific Green; AF430; L/D/F Aqua
	VL3	555 DLP	603/48	BV570; BV605; SB600; eFluor 605NC; Pacific Orange; L/D/F Yellow
	VL4	650 DLP	710/50	BV711; SB702
Blue	FSC	None	None	FSC
	SSC	None	488/10	SSC
	BL1	495 DLP	530/30	BB515; FITC; AF488; EGFP; EYFP; zsGreen; mCitrine; Clover; mVenus; Emerald; DC Green; SYTOX Green; CFSE; L/D/F Green; TO-PRO-1
	BL2	555 DLP	590/40	PE; PI
Yellow	YL1	577 LP	585/16	PE (best); Red Fluorescent Proteins (tdTomato; mOrange; dsRed); DC Orange; SYTOX Orange; PI
	YL2	600 DLP	620/15	AF594; PE-Dazzle 594; PE-AF610; PE-Texas Red; Red Fluorescent Proteins (RFP; mCherry; mKate; mStrawberry); L/D/F Red; PI (best); 7-AAD
	YL3	650 DLP	695/40	PE-Cy5.5 (best); PE-AF700 (best); PerCP-Cy5.5; PerCP-eFluor 710; 7-AAD; SYTOX AADVanced
	YL4	740 DLP	780/60	PE-Cy7
Red	RL1	654 LP	670/14	AF647; AF660; APC; eFluor 660; DC Ruby; SYTOX Red; TO-PRO-3; L/D/F Far Red
	RL2	690 DLP	720/30	AF680; AF700; APC-R700; iRFP
	RL3	740 DLP	780/60	APC-H7; APC-AF750; APC-Cy7; APC-eFluor 780; L/D/F Near-IR

Abbreviations:

DC - Vybrant™ DyeCycle™ (Thermo Fisher Scientific Inc.)

L/D/F - LIVE/DEAD™ Fixable (Thermo Fisher Scientific Inc.)

AF xxx - Alexa Fluor (Thermo Fisher Scientific Inc.)

BB xxx - BD Horizon Brilliant™ Blue (BD Biosciences Inc.)

BV xxx - BD Horizon Brilliant™ Violet (BD Biosciences Inc.)

BUV xxx - BD Horizon Brilliant™ Ultra Violet (BD Biosciences Inc.)

SB xxx - Super Bright (Thermo Fisher Scientific Inc.)

Note 1: This table shows examples of dyes that can be used with current configuration. Not all colors are listed.

Note 2: Instrument is customizable. Other sets of mirrors and filters are available upon request.