

NovoCyte Configuration and Fluorochrome Guide

CONFIGURATION OVERVIEW

Laser	Dichroic	Filter	Parameter	
			QUANTEON ("Diana")	PENTEON ("Athena" and "Saturn")
UV 349 nm 20 mW	495LP	445/45		UV445
	FRM	525/45		UV525
	570 SP	586/20		UV586
	598 SP	615/20		UV615
	685 LP	667/30		UV667
	FRM	725/40		UV725
	757 LP	780/60		UV780
Violet 405 nm 100 mW	495 LP	445/45	V445	V445
	FRM	525/45	V525	V525
	570 SP	586/20	V586	V586
	598 SP	615/20	V615	V615
	685 LP	667/30	V667	V667
	705 LP	695/40	V695	
	FRM	725/40	V725	V725
Blue 488 nm 100 mW	757LP	780/60	V780	V780
	FRM	525/45	B525	B525
	570 SP	586/20	B586	B586
	598 SP	615/20	B615	B615
	685 LP	667/30	B667	B667
	705 LP	695/40	B695	B695
	FRM	725/40	B725	B725
Yellow 561 nm 100 mW	757LP	780/60	B780	
	570 SP	586/20	Y586	Y586
	596 SP	615/20	Y615	Y615
	685 LP	667/30	Y667	Y667
	705 LP	695/40	Y695	Y695
	FRM	725/40	Y725	Y725
Red 637 nm 100 mW	757 LP	780/60	Y780	Y780
	685 LP	667/30	R667	R667
	705 LP	695/40	R695	R695
	FRM	725/40	R725	R725
	757 LP	780/60	R780	R780

FLUOROCHROME CHOICES

UV Laser 349 nm 20 mW					
			Quanteon	Penteon	
Dichroic	Filter	Parameter	Fluorochrome		
495LP	445/45	UV445		Alexa Fluor 350 Brilliant Ultraviolet 395 CellTrace Calcein Blue (AM) DAPI eBFP Ghost Dye UV 450 Hoechst 33258 Hoechst 33342 LIVE/DEAD Fixable Blue StarBright UltraViolet 445 Vybrant DyeCycle Violet Zombie UV	
FRM	525/45	UV525		Brilliant Ultraviolet 496 StarBright UltraViolet 510	
570 SP	586/20	UV586		Brilliant Ultraviolet 563 StarBright UltraViolet 575	
598 SP	615/20	UV615		Brilliant Ultraviolet 615 StarBright UltraViolet 605	
685 LP	667/30	UV667		Brilliant Ultraviolet 661 StarBright UltraViolet 665	
FRM	725/40	UV725		Brilliant Ultraviolet 737 Qdot 705 StarBright UltraViolet 740	
757 LP	780/60	UV780		Brilliant Ultraviolet 805 StarBright UltraViolet 795	
Violet Laser 405 nm 100 mW					
			Quanteon	Penteon	
Dichroic	Filter	Parameter	Fluorochrome		
495 LP	445/45	V445	Alexa Fluor 405 BD Horizon V450 Brilliant Violet 421 Calcein Violet AM CellTrace Violet DAPI DyLight 405	Alexa Fluor 405 BD Horizon V450 Brilliant Violet 421 Calcein Violet AM CellTrace Violet DAPI DyLight 405	

			eFluor 450 Hoechst 33258 Hoechst 33342 LIVE/DEAD Fixable Violet mTagBFP Pacific Blue StarBright Violet 440 Super Bright 436 SYTOX Blue V450 VioBlue Vio Bright V423 Vybrant DyeCycle Violet Zombie Violet	eFluor 450 Hoechst 33258 Hoechst 33342 LIVE/DEAD Fixable Violet mTagBFP Pacific Blue StarBright Violet 440 Super Bright 436 SYTOX Blue V450 VioBlue Vio Bright V423 Vybrant DyeCycle Violet Zombie Violet
FRM	525/45	V525	BD Horizon V500 Brilliant Violet 510 CFP eFluor 506 LIVE/DEAD Fixable Aqua Spark Violet 500 Spark Violet 538 StarBright Violet 515 V500 VioGreen Zombie Aqua	BD Horizon V500 Brilliant Violet 510 CFP eFluor 506 LIVE/DEAD Fixable Aqua Spark Violet 500 Spark Violet 538 StarBright Violet 515 V500 VioGreen Zombie Aqua
570 SP	586/20	V586	Brilliant Violet 570 LIVE/DEAD Fixable Yellow StarBright Violet 570 Zombie Yellow	Brilliant Violet 570 LIVE/DEAD Fixable Yellow StarBright Violet 570 Zombie Yellow
598 SP	615/20	V615	Brilliant Violet 605 StarBright Violet 610 Super Bright 600	Brilliant Violet 605 StarBright Violet 610 Super Bright 600
685 LP	667/30	V667	Brilliant Violet 650 StarBright Violet 670 Super Bright 645	Brilliant Violet 650 StarBright Violet 670 Super Bright 645
705 LP	695/40	V695	QDot 705	
FRM	725/40	V725	Brilliant Violet 711 StarBright Violet 710 Super Bright 702	Brilliant Violet 711 StarBright Violet 710 Super Bright 702
757LP	780/60	V780	Brilliant Violet 750 Brilliant Violet 786 StarBright Violet 760 StarBright Violet 790 Super Bright 780	Brilliant Violet 750 Brilliant Violet 786 StarBright Violet 760 StarBright Violet 790 Super Bright 780

Blue Laser				
488 nm				
100 mW				
			Quanteon	Penteon
Dichroic	Filter	Parameter	Fluorochrome	
FRM	525/45	B525	Alexa Fluor 488 Alexa Fluor 532 Brilliant Blue 515 CellTrace Calcein Green CFSE DyLight 488 FITC GFP KIRAVIA Blue 520 LIVE/DEAD Fixable Green mNeonGreen mVenus NovaBlue 510 NovaBlue 530 NovaBlue 555 Spark Blue 515 SYTOX Green Vio Bright B515 / Vio B515 Vio Bright FITC Vybrant DyeCycle Green YFP Zombie Green zsGreen	Alexa Fluor 488 Alexa Fluor 532 Brilliant Blue 515 CellTrace Calcein Green CFSE DyLight 488 FITC GFP KIRAVIA Blue 520 LIVE/DEAD Fixable Green mNeonGreen mVenus NovaBlue 510 NovaBlue 530 NovaBlue 555 Spark Blue 515 SYTOX Green Vio Bright B515 / Vio B515 Vio Bright FITC Vybrant DyeCycle Green YFP Zombie Green zsGreen
570 SP	586/20	B586	YFP (with GFP) LIVE/DEAD Fixable Olive Vybrant DyeCycle Orange Spark Blue 574 StarBright Blue 580	YFP (with GFP) LIVE/DEAD Fixable Olive Vybrant DyeCycle Orange Spark Blue 574 StarBright Blue 580
598 SP	615/20	B615	NovaBlue 610 NovaBlue 610-30S NovaBlue 610-70S Real Blue 613 StarBright Blue 615	NovaBlue 610 NovaBlue 610-30S NovaBlue 610-70S Real Blue 613 StarBright Blue 615
685 LP	667/30	B667	NovaBlue 660 NovaBlue 660-40S NovaBlue 660-120S PerCP StarBright Blue 675 Sytox AADvanced	NovaBlue 660 NovaBlue 660-40S NovaBlue 660-120S PerCP StarBright Blue 675 Sytox AADvanced
705 LP	695/40	B695	Brilliant Blue 700 PerCP-Cy5.5 PerCP-eFluor 710 PerCP-Vio 700 Real Blue 705 StarBright Blue 700	Brilliant Blue 700 PerCP-Cy5.5 PerCP-eFluor 710 PerCP-Vio 700 Real Blue 705 StarBright Blue 700

FRM	725/40	B725	PerCP-eFluor710 PerCP-Vio700	PerCP-eFluor710 PerCP-Vio700
757LP	780/60	B780	Real Blue 780 PE-Alexa Fluor 750 StarBright Blue 764 StarBright Blue 810	
Yellow Laser 561 nm 100 mW				
			Quanteon	Penteon
Dichroic	Filter	Parameter	Fluorochrome	
570 SP	586/20	Y586	Alexa Fluor 546 Alexa Fluor 555 Alexa Fluor 561 Calcein Red-AM dsRed DyLight 549 eFluor 570 NovaYellow 570 mScarlet PE Real Yellow 586 Spark YG 570 Spark YG 581 Spark YG 593 StarBright Yellow 575 SYTOX Orange tdTomato Vybrant™ DyeCycle™ Orange	Alexa Fluor 546 Alexa Fluor 555 Alexa Fluor 561 Calcein Red-AM dsRed DyLight 549 eFluor 570 NovaYellow 570 mScarlet PE Real Yellow (RY) 586 Spark YG 570 Spark YG 581 Spark YG 593 StarBright Yellow 575 SYTOX Orange tdTomato Vybrant™ DyeCycle™ Orange
596 SP	615/20	Y615	Alexa Fluor 568 Alexa Fluor 594 DyLight 594 eFluor 615 LIVE/DEAD Fixable Orange LIVE/DEAD Fixable Red mCherry NovaYellow 610 PE-Alexa Fluor 610 PE-CF594 PE-Dazzle 594 PE-eFluor 610 PE-Texas Red PE-Vio 615 Propidium Iodide Real Yellow 610 StarBright Yellow 605 Texas Red Zombie Red	Alexa Fluor 568 Alexa Fluor 594 DyLight 594 eFluor 615 LIVE/DEAD Fixable Orange LIVE/DEAD Fixable Red mCherry NovaYellow 610 PE-Alexa Fluor 610 PE-CF594 PE-Dazzle 594 PE-eFluor 610 PE-Texas Red PE-Vio 615 Propidium Iodide Real Yellow 610 StarBright Yellow 605 Texas Red Zombie Red
685 LP	667/30	Y667	7AAD NovaYellow 660 PE-Cy5 StarBright Yellow 665	7AAD NovaYellow 660 PE-Cy5 StarBright Yellow 665

			Sytox AADvanced	Sytox AADvanced
705 LP	695/40	Y695	NovaYellow 690 NovaYellow 700 PE-Cy5.5 PE-Fire 700 Real Yellow 703	NovaYellow 690 NovaYellow 700 PE-Cy5.5 PE-Fire 700 Real Yellow 703
FRM	725/40	Y725	PE-Alexa Fluor 700 StarBright Yellow 720	PE-Alexa Fluor 700 StarBright Yellow 720
757 LP	780/60	Y780	PE-Alexa Fluor 750 PE-Cy7 PE/Fire 810 PE-Vio 770 Real Yellow 775 StarBright Yellow 800	PE-Alexa Fluor 750 PE-Cy7 PE/Fire 810 PE-Vio 770 Real Yellow 775 StarBright Yellow 800
Red Laser 637 nm 100 mW				
			Quanteon	Penteon
Dichroic	Filter	Parameter	Fluorochrome	
685 LP	667/30	R667	Alexa Fluor 647 APC Cy5 DyLight 633 DyLight 649 DyLight 650 eFluor 660 LIVE/DEAD Fixable Far Red NovaRed 660 StarBright Red 670 SYTOX Red TO-PRO-3 Vio Bright R667 / Vio R667	Alexa Fluor 647 APC Cy5 DyLight 633 DyLight 649 DyLight 650 eFluor 660 LIVE/DEAD Fixable Far Red NovaRed 660 StarBright Red 670 SYTOX Red TO-PRO-3 Vio Bright R667 / Vio R667
705 LP	695/40	R695	Alexa Fluor 660 Alexa Fluor 680 APC-Cy5.5 DRAQ5 DRAQ7 DyLight 680 eFluor 710 NovaRed 685 NovaRed 700 Spark NIR 685 StarBright Red 715 Vybrant DyeCycle Ruby	Alexa Fluor 660 Alexa Fluor 680 APC-Cy5.5 DRAQ5 DRAQ7 DyLight 680 eFluor 710 NovaRed 685 NovaRed 700 Spark NIR 685 StarBright Red 715 Vybrant DyeCycle Ruby
FRM	725/40	R725	Alexa Fluor 700 APC-Alexa Fluor 700 APC-R700 iRFP LIVE/DEAD Fixable Scarlet	Alexa Fluor 700 APC-Alexa Fluor 700 APC-R700 iRFP LIVE/DEAD Fixable Scarlet R718

			R718 Spark Red 718 Vio Bright R720 / Vio R720	Spark Red 718 Vio Bright R720 / Vio R720
757 LP	780/60	R780	Alexa Fluor 750 APC-Alexa Fluor 750 APC-Cy7 APC-eFluor 780 APC-Fire 750 APC-Fire 810 APC-H7 APC-Vio770 LIVE/DEAD Fixable Near-IR StarBright Red 775	Alexa Fluor 750 APC-Alexa Fluor 750 APC-Cy7 APC-eFluor 780 APC-Fire 750 APC-Fire 810 APC-H7 APC-Vio770 LIVE/DEAD Fixable Near-IR StarBright Red 775