

## AxioScan Filters (ordered **BLUE**, **GREEN**, **RED**, **FAR RED**)

Name - Filter set		Dye(s)	Peak Excitation	Peak Emission	Calibri (LED peak)	Excitation filter	Beam-split filter	Emission filter
<b>VIOLET</b>	Filter set 68	DAPI	360 nm	465 nm	365 nm	BP 377/28	FT 403	BP 464/100
	Ideal					None	FT 395	BP 464/100
<b>BLUE</b>	Filter set 47 HE	Blue Neurotrace eCFP	435 nm	455 nm	420 nm	BP 436/25 DMR 25	FT 455 HE	BP 480/40 DMR 25
	Ideal					BP 420/40	FT 455 HE	BP 480/40 DMR 25
<b>GREEN</b>	Filter set 38 HE	Fluorescein eGFP	495 nm 488 nm	520 nm 510 nm	470 nm	BP 470/40	FT 495	BP 525/50
	Ideal	Green Neurotrace	495 nm	525 nm		BP 470/35	FT500	BP 530/50
<b>ORANGE</b>	Filter set 20 HE	Cy3	550 nm	560 nm	540-580 nm warm-white	BP 546/12 (HE)	FT 560 (HE)	BP 607/80 (HE)
<b>NEAR RED</b>	Filter set 00	Red Neurotrace Propidium Iodide	530 nm 540 nm	615 nm 615 nm		BP 530-585	FT 600	LP 615
	Ideal		BP 530-585	FT 605 (HE)		BP 647/70 (HE)		
<b>RED</b>	Filter set 64 HE	mCherry Texas Red	585 nm 595 nm	610 nm 615 nm	590 nm	BP 587/25 (HE)	FT 605 (HE)	BP 647/70 (HE)
	Ideal	Alexa 594	590 nm	620 nm	None	FT 605 (HE)	BP 647/70 (HE)	
<b>FAR RED</b>	Filter set 50	Alexa 647 Cy5 Deep-red Neurotrace	655 nm 645 nm 640 nm	670 nm 665 nm 660 nm	625 nm	640/30	FT 660	BP 690/50

Filter sets are at <https://www.micro-shop.zeiss.com/?s=2525647761b33&l=en&p=us&f=f>. The system holds up to four LED sources, with some constraints on the configuration, and up to six filters per wheel.