



## Maestro™ 2 and Maestro™ EX Filter Selection Guide

FLUOROPHORE			MAESTRO FILTER SET NAME						
NAME	EXCITATION (NM)	EMISSION (NM)	BLUE	GREEN	YELLOW	ORANGE	RED	DEEP RED	NIR
525 nm QDot®	< 500	525	X						
545 nm QDot®	< 520	545	X						
565 nm QDot®	< 540	565	X						
605 nm QDot®	< 580	605		X					
655 nm QDot®	< 620	655		X					
705 nm QDot®	< 650	705			X				
800 nm QDot®	< 750	800			X				
Alexa Fluor® 488	492	520	X						
Alexa Fluor® 500	500	530	X						
Alexa Fluor® 514	514	545	X						
Alexa Fluor® 532	532	554	X						
Alexa Fluor® 546	556	573	X						
Alexa Fluor® 555	555	580	X						
Alexa Fluor® 568	577	603		X					
Alexa Fluor® 594	590	618		X					
Alexa Fluor® 610	612	628		X					
Alexa Fluor® 633	632	650		X					
Alexa Fluor® 647	647	666			X				
Alexa Fluor® 660	668	698				X			
Alexa Fluor® 680	679	702				X			
Alexa Fluor® 700	700	719					X		
Alexa Fluor® 750	750	779						X	
Cy2™	498	506	X						
Cy3™	554	568	X						
Cy5™	649	666			X				
Cy5.5™	675	695				X			
Cy7™	743	805						X	
GFP	475	509	X						
FITC	490	525	X						
eGFP	498	515	X						
YFP	520	532	X						
Rhodamine	550	573	X						
RFP (dsRed)	558	583		X					
ICG	800	850							X

Color denotes usable longpass filters, X denotes recommended filter set

Maestro Filter Set Name	Excitation Filter (Range)	Emission Filter	Acquisition Settings*
White	Neutral attenuator	Transparent glass filter	500 to 800 in 10 nm steps
Blue	455 nm (435 to 480 nm)	490 nm longpass	500 to 720 in 10 nm steps
Green	523 nm (503 to 548 nm)	560 nm longpass	560 to 750 in 10 nm steps
Yellow	595 nm (576 to 621 nm)	635 nm longpass	630 to 800 in 10 nm steps
Orange	605 nm (586 to 601 nm)	645 nm longpass	640 to 820 in 10 nm steps
Red	635 nm (616 to 661 nm)	675 nm longpass	670 to 900 in 10 nm steps
Deep Red	661 nm (641 to 681 nm)	700 nm longpass	700 to 950 in 10 nm steps
NIR	704 nm (684 to 729 nm)	745 nm longpass	740 to 950 in 10 nm steps

\* The ending wavelength can always be made longer if there is fluorescence beyond the suggested end point.

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