

FRAEN® Fluorescence Illuminators & Filter Sets

FRAEN® Reflected Illuminators & Filter Sets for Fluorescence

CATALOG #	DESCRIPTION
F-1CFW-1CF	FRAEN® 1CFW - 1 color fixed light intensity, fluorescence illuminator, 30,000 hour rated life, includes 1 filter set
F-1CFW-1CV	FRAEN® 1CFW - 1 color variable light intensity, fluorescence illuminator, 30,000 hour rated life, includes 1 filter set
F-2CFW-2CF	FRAEN® 2CFW - 2 color fixed light intensity, fluorescence illuminator, 30,000 hour rated life, includes 2 filter sets
F-3CFW-2CV	FRAEN® 3CFW - 2 color variable light intensity, fluorescence illuminator, 30,000 hour rated life, includes 2 filter set
F-3CFW-3FV	FRAEN® 3CFW - 3 color variable light intensity, fluorescence illuminator, 30,000 hour rated life, includes 3 filter set
<i>Select your illuminator & filter set from FRAEN® chart on next page</i>	FRAEN® additional filter cube with filters
	FRAEN® additional LED cassette (except UV)
	FRAEN® additional LED cassette - UV

FRAEN® units can be fitted to work on any major brand microscope

FRAEN® Reflected Illuminator Adapters for Alternate Brands

F-CFW-500	Dovetail for EXC-500 Series for Fraen® illuminators
F-CFW-350	Dovetail for EXC-350 Series for Fraen® illuminators
F-CFW-OLY	Dovetail for Fraen® reflected illuminator for Olympus® BX Series
F-CFW-OLY-BH	Dovetail for Fraen® reflected illuminator for Olympus® BH Series
F-CFW-N	Dovetail for Fraen® reflected illuminator for Nikon® Ci, 50i, E400
F-CFW-Z	Dovetail for Fraen® reflected illuminator for Zeiss®
F-CFW-L	Dovetail for Fraen® reflected illuminator for Leica®

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Use the chart below to select the FRAEN illuminator and filter set for your application

LED Color	Peak Wavelength (nm)			Spectral half width (nm)	Exciter	Dichroic	Suggested emitters, depending from application		
	Min.	Main Value	Max.						
UV	360	365	370	n.a.	Band pass 350/50	400	Band pass 450/60 <i>Selective filter for best contrast and lowest background</i>	Long pass 420 <i>Wide filter, best for autofluorescence signals</i>	Long pass 510 <i>When emission signal is far from excitation (example Calcofluor White)</i>
Royal Blue	440	447,5	460	20	Band pass 450/30	460	Long pass 490 <i>Wide emission filter for strongest signal</i>	Band pass 510/40 <i>Selective filter for best contrast and lowest background</i>	
Royal Blue	440	447,5	460	20	Band pass 450/40	490	Long pass 500 <i>Wide emission filter for strongest signal (example Auramine O)</i>	Band pass 530/70 <i>Selective filter for best contrast and lowest background</i>	
Blue	460	470	480	20	Band pass 470/40	505	Long pass 510 <i>Wide emission filter for strongest signal (example FITC in immunology, allows visualization of Evan's Blue counterstain)</i>	Band pass 525/25	Band pass 525/30 Band pass 535/50 Band pass 535/40 <i>Selective filters for best contrast and lowest background</i>
Cyan	490	505	510	30	Band pass 510/40	535	Band pass 570/60 <i>Selective filter for best contrast and lowest background</i>		
Green	520	530	540	30	Band pass 530/50	565	Band pass 575 <i>Wide emission filter for strongest signal</i>	Band pass 590/20 <i>Selective filter for best contrast and lowest background</i>	
Lime	566	567,5	569	100	Band pass 560/55	595	Long pass 610 <i>Wide emission filter for strongest signal</i>	Band pass 630/50 Band pass 630/60 <i>Selective filter for best contrast and lowest background</i>	
Lime	566	567,5	569	100	Band pass 570/60	610	Long pass 615 <i>Wide emission filter for strongest signal</i>	Band pass 655/40 Band pass 660/60 <i>Selective filters for best contrast and lowest background</i>	
Lime	566	567,5	569	100	Band pass 580/40	610	Long pass 615 <i>Wide emission filter for strongest signal</i>	Band pass 655/40 Band pass 660/60 <i>Selective filters for best contrast and lowest background</i>	
Red	620	627	645	20	Band pass 635/30	655	Long pass 660 <i>Wide emission filter for strongest signal</i>		