

Filters Selection Guide

There is a large choice of filters, their characteristics are thoroughly differentiated. To choose the right filter characteristic may help you to increase your experimentation efficiency. The filter structure can be simple to be replaced, prepare many filters for replacement to obtain the best optical experimentation condition.

Application	Sample of use	Products		Features	
Brightness adjustment	Prevention of saturation of sensor Contrast tuning of interference fringes A proper brightness adjustment Laser security measure			Absorption ND filter	Low cost
				Reflectance ND filter	High power laser, wide wavelength
				Variable ND filter	Continuously variable
Choice of wavelength (color)	Fluorescence observation Select a single color light Infrared and Ultraviolet observation			Color glass filter	Low cost, low ripple and high light cut-off
				Dichroic filter	High transmittance High steep of reflectance and transmittance switching
				Bandpass filter	Small bandwidth wavelength selection
Attenuate the scattered light	Uniformize the light Illumination for Observation Screen			Beam shaping diffuser	Low lost One direction emission
				Diffuser plate	Low cost The selection of proportion of Transmission and Diffusion

Selective wavelength filter

Long-pass filter

Wavelength [nm]	Part Number	Wavelength [nm]	Part Number	
300	306 LOPF-25C-300	550	560 SCF-50S-560	
	327 RSF-25C-325RU		567 RSF-25C-561RU	
	347 LOPF-25C-341		570 SDM570S	
350	359 RSF-25C-355RU	572 LOPF-25C-561	573 YIF-BA575IFS	
	367 RSF-25C-364RU	574 RSF-25C-568RU	574 RSF-25C-568RU	
	370 SCF-50S-37L	580 SCF-50S-580	580 SCF-50S-580	
	380 SCF-50S-38L	595 SDM595S	595 SDM595S	
	390 SCF-50S-39L	600 SCF-50S-60R	600 SCF-50S-60R	
	410 SDM410S	601 LOPF-25C-593	601 LOPF-25C-593	
400	415 LOPF-25C-409	602 YIF-BA600IFS	602 YIF-BA600IFS	
	416 YIF-BA420IFS	610 DIF-50S-RED	610 DIF-50S-RED	
	418 LOPF-25C-405	620 SCF-50S-62R	620 SCF-50S-62R	
	420 SCF-50S-42L	637 RSF-25C-633RU	637 RSF-25C-633RU	
	440 SCF-50S-44Y	640 SCF-50S-64R	640 SCF-50S-64R	
	445 RSF-25C-442RU	654 RSF-25C-647RU	654 RSF-25C-647RU	
	450	455 SDM455S	655 LOPF-25C-635	655 LOPF-25C-635
		460 YIF-BA460IFS	660 SCF-50S-66R	660 SCF-50S-66R
		463 RSF-25C-458RU	671 RSF-25C-664RU	671 RSF-25C-664RU
		466 LOPF-25C-458	700 SCF-50S-70R	700 SCF-50S-70R
476 RSF-25C-473RU		720 SCF-50S-72R	720 SCF-50S-72R	
480 SCF-50S-48Y		723 LOPF-25C-715	723 LOPF-25C-715	
490 SDM490S		754 LOPF-25C-736	754 LOPF-25C-736	
490 DIM-50S-BLE		760 ITF-50S-76IR	760 ITF-50S-76IR	
491 RSF-25C-488RU		760 CLDM	760 CLDM	
500 SCF-50S-50Y		788 RSF-25C-780RU	788 RSF-25C-780RU	
500	501 LOPF-25C-488	791 RSF-25C-785RU	791 RSF-25C-785RU	
	501 LOPF-25C-496	800 ITF-50S-80IR	800 ITF-50S-80IR	
	505 SDM505S	805 LOPF-25C-785	805 LOPF-25C-785	
	511 YIF-BA510IFS	812 LOPF-25C-800	812 LOPF-25C-800	
	515 SDM515S	812 RSF-25C-808RU	812 RSF-25C-808RU	
	515 LOPF-25C-500	830 ITF-50S-83IR	830 ITF-50S-83IR	
	518 RSF-25C-514RU	838 RSF-25C-830RU	838 RSF-25C-830RU	
	520 SCF-50S-52Y	840 LOPF-25C-834	840 LOPF-25C-834	
	520 DIF-50S-YEL	850 ITF-50S-85IR	850 ITF-50S-85IR	
	522 LOPF-25C-515	985 ITF-50S-100RM	985 ITF-50S-100RM	
850	526 LOPF-25C-514	986 RSF-25C-980RU	986 RSF-25C-980RU	
	530 LOPF-25C-519	1057 LOPF-25C-1020	1057 LOPF-25C-1020	
	535 RSF-25C-532RU	1071 RSF-25C-1064RU	1071 RSF-25C-1064RU	
	540 SCF-50S-54O	1300		
	540 LOPF-25C-532	1326 RSF-25C-1319RU	1326 RSF-25C-1319RU	
	542 LOPF-25C-532			

Short-pass filter

Wavelength [nm]	Part Number
450	430 SHPF-25C-440
	483 SHPF-25C-492
	488 SHPF-25C-518
	495 DIF-50S-BLE
500	522 SHPF-25C-533
	590 DIF-50S-CYA
550	590 DIM-50S-RED
	599 SHPF-25C-612
600	638 SHPF-25C-650
	646 SHPF-25C-655
650	654 SHPF-25C-680
	681 SHPF-25C-694
700	698 SHPF-25C-720
	700 CLDF-50S
750	701 HAF-50S-15H
	727 SHPF-25C-750
	743 HAF-50S-30H
	747 SHPF-25C-770
	761 SHPF-25C-775
	765 SHPF-25C-790
800	777 HAF-50S-50H
	835 SHPF-25C-842
	875 SHPF-25C-890
	912 SHPF-25C-950
	936 SHPF-25C-945

Nootch type

Wavelength [nm]	Part Number
350	355 NF-25C05-27-355
	532 NF-25C05-40-532
400	540 DIM-50S-GRE
	550 DIF-50S-MAG
500	633 NF-25C05-47-633
	1064 NF-25C05-80-1064

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Band-pass type

	Wavelength [nm]	Part Number	Wavelength [nm]	Part Number	Wavelength [nm]	Part Number
Application Systems	200	214 VPF-25C-10-12-21400	500	500 VPF-25C-10-50-50000	700	700 VPF-25C-10-50-70000
		228 VPF-25C-10-15-22800		500 VPF-25C-40-50-50000		700 VPF-25C-40-50-70000
		232 VPF-25C-10-15-23200		509 VPF-50S-10-55-50000		710 VPF-50S-12-65-70000
		239 VPF-25C-10-15-23900		510 VPF-25C-10-50-50850		720 VPF-50S-12-65-71000
				510 VPF-50S-10-55-51000		730 VPF-50S-12-65-72000
	Optics & Optical Coatings	250		254 VPF-25C-10-12-25370	515 VPF-25C-01-40-51450	730 VPF-50S-12-65-73000
				265 VPF-25C-10-12-26500	515 VPF-25C-03-45-51450	740 VPF-50S-12-65-74000
				280 VPF-25C-10-12-28000	515 VPF-25C-10-50-51450	750 VPF-25C-10-45-75000
				289 VPF-25C-10-15-28900	VPFHT-5145	750 VPF-25C-40-40-75000
				297 VPF-25C-10-15-29700	YIF-BA495-540S	VPF-50S-12-65-75000
Opto-Mechanics		300	307 VPF-25C-10-15-30710	517 VPF-50S-10-55-52000	760 VPF-50S-12-65-76000	
			313 VPF-25C-10-15-31300	526 GRF-50S-530G	766 VPF-25C-10-45-76650	
			317 UTVAF-50S-33U	530 YIF-BA510-550S	770 VPF-50S-12-65-77000	
			325 VPFHT-3250	532 VPF-50S-10-55-53000	780 VPF-25C-10-45-78000	
			UTVAF-50S-34U	532 VPF-25C-01-40-53200	VPF-50S-12-65-78000	
	Bases	350	326 VPF-25C-10-25-32600	532 VPF-25C-03-45-53200	VPFHT-7800	
			334 VPF-25C-10-25-33400	532 VPF-25C-10-50-53200	785 VPFHT-7850	
			337 VPF-25C-03-20-33710	VPFHT-5320	790 VPF-50S-12-65-79000	
			350 VPF-25C-10-25-35000	533 GRF-50S-533G	ITF-50S-83RT	
			VPF-25C-40-25-35000	535 VPF-25C-10-50-53500	795 VPF-25C-10-45-79470	
Manual Stages		400	355 VPF-25C-10-25-35500	537 YIF-BA515-560S	800 VPF-25C-10-45-80000	
			VPFHT-3550	540 VPF-50S-10-55-54000	VPF-25C-40-45-80000	
			364 VPFHT-3638	DIF-50S-GRE	VPF-50S-12-65-80000	
			365 VPF-25C-10-25-36500	541 GRF-50S-545G	VPFHT-8080	
			YIF-BP360-370S	543 YIF-BP530-550S	808 VPF-25C-10-45-81000	
	Actuators & Adjusters	450	370 BLF-50S-370B	544 VPFHT-5435	810 VPF-50S-12-65-81000	
			YIF-BP340-390S	546 YIF-BP540-550S	820 VPF-50S-12-65-82000	
			VPFHT-3720	VPF-25C-10-50-54610	830 VPF-25C-10-45-83000	
			390 BLF-50S-390B	548 GRF-50S-550G	VPF-50S-12-65-83000	
			400 VPF-25C-10-40-40000	550 VPF-25C-10-50-55000	VPFHT-8300	
Motoeized Stages		500	405 YIF-BP400-410S	560 VPF-25C-40-50-55000	840 VPF-50S-12-65-84000	
			VPF-25C-10-40-40470	561 VPF-50S-10-60-55000	850 VPF-50S-12-65-85000	
			410 BLF-50S-410B	562 YIF-BP540-585S	VPFHT-8520	
			VPF-50S-10-45-41000	568 VPFHT-5682	860 VPF-50S-12-65-86000	
			420 YIF-BP400-440S	570 VPF-50S-10-60-57000	870 VPF-50S-12-65-87000	
	Light Sources & Laser Safety	550	430 VPF-50S-10-45-42000	576 YIF-BP565-585S	880 VPF-50S-12-65-88000	
			436 VPF-25C-10-40-43580	577 VPF-25C-10-50-57700	890 VPF-50S-12-65-89000	
			440 BLF-50S-440B	580 VPF-50S-10-60-58000	900 VPF-50S-12-65-90000	
			VPF-50S-10-45-44000	589 VPF-25C-10-50-58930	905 VPF-25C-10-45-90500	
			442 VPF-25C-01-30-44160	590 VPF-50S-10-60-59000	976 VPFHT-9760	
Index		600	445 YIF-BA420-460S	599 YIF-BA575-625S	980 VPFHT-9800	
			450 VPF-25C-10-45-45000	600 VPF-25C-10-50-60000	1014 VPF-25C-10-40-10140	
			VPF-25C-40-50-45000	VPF-25C-40-50-60000	1047 VPFHT-10471	
			456 VPF-25C-10-45-45550	VPF-50S-12-60-60000	1050 VPF-25C-01-30-10640	
			458 VPF-25C-01-30-45790	610 VPF-50S-12-60-61000	VPF-25C-03-35-10640	
	Guide	650	470 VPF-25C-03-35-44160	620 VPF-50S-12-60-62000	VPF-25C-10-40-10640	
			VPF-25C-10-45-44160	630 VPF-50S-12-60-63000	VPFHT-10640	
			VPFHT-4416	633 VPF-25C-01-40-63280		
			445 YIF-BA420-460S	VPF-25C-03-45-63280		
			450 VPF-25C-10-45-45000	VPF-25C-10-50-63280		
Mirrors		700	456 VPF-50S-10-50-45000	VPFHT-6328	1100 VPF-25C-10-35-13000	
			458 VPF-25C-10-45-45550	636 VPF-25C-10-50-63620	1500 VPF-25C-10-30-15000	
			VPF-25C-40-50-45000	640 VPF-50S-12-60-64000	1550 VPF-25C-10-30-15500	
			456 VPF-25C-10-45-45550	644 YIF-BA600-690S		
			458 VPF-25C-01-30-45790	647 VPF-25C-03-45-64710		
	Beamsplitters	750	477 YIF-BP460-495S	647 VPF-25C-03-45-64710		
			VPF-25C-03-35-45790	VPF-25C-10-50-64710		
			VPF-25C-10-45-45790	VPFHT-6471		
			VPFHT-4579	650 VPF-25C-10-50-65000		
			460 BLF-50S-460B	VPF-25C-40-50-65000		
Polarizers		800	VPF-50S-10-50-46000	656 VPF-25C-10-50-65630		
			VPF-50S-10-50-47000	660 VPF-50S-12-60-66000		
			471 YIF-BP460-480S	670 VPF-25C-10-50-67000		
			477 YIF-BP460-495S	VPF-50S-12-60-67000		
			480 VPF-50S-10-50-48000	VPFHT-6710		
	Lenses	850	484 YIF-BP470-495S	671 VPFHT-6710		
			VPF-25C-10-45-48610	680 VPF-50S-12-60-68000		
			487 YIF-BA460-510S	690 VPF-50S-12-60-69000		
			488 VPF-25C-01-40-48800	694 VPF-25C-10-50-69430		
			VPF-25C-03-45-48800			
Multi-Element Optics		900	VPF-25C-10-50-48800			
			VPFHT-4880			
			490 VPF-50S-10-50-49000			
			491 VPFHT-4910			
			495 YIF-BP490-500S			
	Filters	950				
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