











# ROPAVISION

## STOCK FILTER TYPES & USES

	Part No. PREFIX	FILTER TYPE	BAND	SUGGESTED USE / APPLICATION
<b>COLOR BANDPASS*</b> 	BP465	Blue Bandpass – UV Block	465nm	x (GENERALLY NOT RECOMMENDED)
	BP470	Blue Bandpass – UV Block	470nm	Blue LEDs / fluorescence
	BP505	Green-Blue Bandpass	505nm	x
	BP525	Light Green Bandpass	525nm	Green LEDs / fluorescence
	BP530	Green Bandpass	530nm	x
	BP535	Green Dichroic Bandpass	535nm	x
	BP590	Orange Bandpass	590nm	Amber LEDs / fluorescence
	BP635	Light Red Bandpass	635nm	High-power red LEDs
	BP660	Dark Red Bandpass	660nm	Darker red LEDs
	<b>INFRARED PASS-VISIBLE BLOCK*</b> 	LP695	IR Longpass	695nm
LP715		IR Longpass	715nm	x
LP780		IR Longpass	780nm	IR diode @810nm
LP830		IR Longpass	830nm	IR photography
LP850		IR Longpass	850nm	x
LP920		IR Dichroic Longpass	920nm	IR LEDs @ 940 nm
LP1000		IR Longpass	1000nm	IR Vidicon/InGaAs cameras
BP695		IR Bandpass	695nm	NIR fluorescence
BP735		IR Bandpass	735nm	IR LEDs @ 735nm
BP800		IR Bandpass	800nm	Best for THIN Filters
BP850		IR Bandpass	850nm	High-power IR LEDs @850nm
BP880		IR Bandpass	880nm	IR LEDs @ 880nm
<b>INFRARED BLOCK-VISIBLE PASS*</b> 	BP550	NIR and UV Blocking-Pass	400-700nm	Color applications
	SP625	Red / NIR Dichroic Blocking	625nm	x
	SP645	Mid-Red / NIR Dichroic Blocking	645nm	Excellent IR/mid-red blocking
	SP675	Deep Red / NIR Dichroic Blocking	675nm	Excellent IR/deep-red blocking
	SP700	Hot Mirror / NIR Dichroic Blocking	700nm	Standard IR blocking / monochrome
	SP705	DeepRed / NIR Blocking	705nm	x
	SP730	Hot Mirror / NIR Colorless Blocking	730nm	Standard IR blocking / color cameras
SP785	Modified IR Dichroic Blocking	785nm	x	
<b>POLARIZING</b> 	PR032	Linear Polarizer, Rotating (w/locking screw)		Reduces visible glare
	PC052	Circular Polarizer		Autofocus lenses
	PL032	Linear Polarizing Sheet		Mount over lighting
	PI035	Infrared Linear Polarizer		Reduces IR glare
<b>NEUTRAL DENSITY</b> 	ND030	Neutral Density OD = 0.3 (50% transmission)		Reduces light intensity
	ND060	Neutral Density OD = 0.6 (25% transmission)		Reduces light intensity
	ND090	Neutral Density OD = 0.9 (12% transmission)		Reduces light intensity
	ND120	Neutral Density OD = 1.2 (6% transmission)		Viewing into lamps
<b>PROTECTIVE – UV BLOCKING</b> 	AC380	Protective Window (Scratch Resistant Acrylic)		FDA applications
	LP340	Protective Window (A/R coated)		AR coat protective window
	LP390	Protective Window (UV Absorbing)		Protective window
	LP415	UV Dichroic Blocking		Blocks all UV
	BP550	UV and Near IR Blocking		Blocks IR and UV
<b>UV BANDPASS*</b> 	BP250	Broadband UV Bandpass	250nm	Deep broadband UV imaging
	BP324	UV 'A+B' Bandpass	324nm	UV imaging
	BP365	Blacklite / UV 'A' Bandpass	365nm	UV imaging / UV lighting filter
	BP435	Deep Blue / UV Bandpass	435nm	x
<b>LONGPASS COLOR*</b> 	LP470	Light Yellow Longpass	470nm	x
	LP500	Yellow Longpass	500nm	Blocks blue/UV light
	LP515	Yellow-Orange Longpass	515nm	Blocks blue/UV light
	LP530	Orange Longpass	530nm	x
	LP550	Orange Longpass	550nm	x
	LP580	Red-Orange Longpass	580nm	x
	LP590	Red Longpass	590nm	x
	LP610	Red Longpass	610nm	x
	LP630	Red Longpass	630nm	x
	LP645	Dark Red Longpass	645nm	x
<b>SHORTPASS/NOTCH COLOR*</b> 	SP510	Blue Dichroic Shortpass	505nm	Gold and silver sorting
	SP570	Blue-Green Dichroic Shortpass	570nm	Blocks orange and red light
	SP585	Cyan Dichroic Shortpass	585nm	Blocks red and IR light
	SP625	Blue-Orange Dichroic Shortpass	625nm	Blocks deep red and NIR
	NF550	Magenta Dichroic (Green Block)	465/625nm	Blocks green light
<b>COLOR LIGHT BALANCING</b> 	LA080	Light Balancing (Minus Blue)		x
	LA120	Light Balancing (Minus Blue +)		Correct white LED color
	LB080	Light Balancing (Minus Red)		Correct halogen lamp color
	LB120	Light Balancing (Minus Red +)		x
	FL550	Light Balancing (Minus Green)		Correct fluorescent lamp color

x = Available but generally not recommended for machine vision applications.

\* Wavelength indicated is 50% point for longpass and shortpass filters, or peak wavelength for bandpass filters.

NOTE 1: Colors shown are approximate transmission color of filter.

NOTE 2: Unmounted filters, slip-mount filters for lenses without threads, and types/sizes/mounts not listed are also available.

## STOCK FILTER SIZES












Part No. SUFFIX	Thread Dia. x Pitch (mm)	External Dia (mm)	Aperture Dia (mm)
-25.4	C-Mount	25.4	18.5
-22.5	M22.5 x P0.5	24	18.5
-25.5	M25.5 x P0.5	27.5	21
-27	M27.0 x P0.5	29	23
-30.5	M30.5 x P0.5	32.5	26.5
-34	M34.0 x P0.5	36	30
-35.5	M35.5 x P0.5	37	31.5
-37	M37.0 x P0.75	39	33
-37.5	M37.5 x P0.5	39.5	33.5
-40.5	M40.5 x P0.5	42	36
-43	M43.0 x P0.75	45	39.5
-46	M46.0 x P0.75	48	41.5
-49	M49.0 x P0.75	51	44.5
-52	M52.0 x P0.75	54	47.5
-55	M55.0 x P0.75	57	50.5
-58	M58.0 x P0.75	60	53.5
-62	M62.0 x P0.75	65	57.5
-67	M67.0 x P0.75*	70	63.2
-68	M68.0 x P0.75*	70	63.2
-72	M72.0 x P0.75*	75	67.7
-77	M77.0 x P0.75*	80	73
-82	M82.0 x P0.75*	85	78.8
-86	M86.0 x P0.75*	90	80
-95	M95.0 x P1.0*	99	90
-105	M105.0 x P1.0*	109	100

\* Large filters require additional lead time to ship.

## FILTER KITS

Each kit contains sample filters and technical information in the size ordered.

### FK100 MACHINE VISION FILTERS\*

LA120		BP635	
BP324		BP660	
BP470		BP850	
BP525		PR032	
BP550		Polarizing Sheet	
BP590			115mm square

### IK100 INFRARED FILTERS

LP695		BP850	
LP780		LP920	
BP800		LP1000	








### UK100 UV FLUORESCENCE FILTERS

BP365		BP525	
LP415		BP590	
BP470		BP324	

### BK100 BANDPASS FILTERS

BP365		BP660	
BP470		BP695	
BP525		BP735	
BP590		BP800	
BP635		BP880	

### NK100 NEUTRAL DENSITY FILTERS

ND030		ND200	
ND060		ND300	
ND090		ND400	
ND120			

Step-Up and Step Down Adapter Rings are available to expand the testing capabilities of all the Filter Kits.

\* Included in the FK100-27 Kit are Adapter Rings for M25.5 and M30.5 threaded lenses making this an excellent starter kit.

## HOW TO ORDER

**Filters:** Use the **prefix** from the *type chart* on left with a **suffix** from the *size chart* above. Ex: BP470-27 for a Blue Bandpass filter in a M27xP0.5 mount.

**Filter Kits** are ordered the same way. Ex: FK100-27.

**Slip Mount** adapters are available if your lens does not have threads for mounting a filter. Please call to order.