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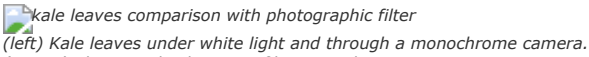
BP660
Dark Red Bandpass Filter

Recommended for use with dark red LEDs

We recommended the BP660 for use with 650-680nm LED and laser diode lighting. Because of its ample bandwidth and excellent in-band transmission, it works very well for all camera-related applications in this range. We currently provide more BP660 single substrate, hard-coated filters than any other filter in our line.

Color longpass filters, sometimes referred to as "sharp cut" filters, are often suggested by others for creating increased contrast and resolution. They will block UV and shorter visible wavelengths but still pass all longer wavelengths. Except in those few cases where an IR-blocking or other shortpass filter is incorporated into the camera or sensor, MidOpt will for the most part recommend the use of one of our broad color bandpass filters (such as the BP660) over these "sharp cut" longpass filters alone. The results are consistently improved contrast in most inspection applications over the long term.

Example:



kale leaves comparison with photographic filter
(left) Kale leaves under white light and through a monochrome camera.
(center) Photographic longpass filter provides some contrast.
(right) MidOpt BP660 creates improved contrast.

More examples

excel icon Download Excel Spreadsheet with data and curve for this filter.

Standard Threaded Mounts:

We offer standard filter sizes from stock – 22.5mm to 62mm – for same- or next-day shipping. Larger filters – 67mm to 105mm – are made to order and are normally not returnable.

BP660 filter curve

Transmission chart (typical)

Passes 635-690nm
Absorbs 200-630nm
Reflects 695-1100nm

Wavelength in nanometers	transmission in nanometers	Wavelength in nanometers	transmission in nanometers
1100	20.80	650	92.78
1090	6.72	640	78.79
1080	2.76	630	44.78
1070	1.45	620	6.15
1060	0.85	610	0.38
1050	0.67	600	0.07
1040	0.62	590	0.03
1030	0.65	580	0.00
1020	0.89	570	0.00
1010	1.48	560	0.00
1000	1.65	550	0.00
990	0.66	540	0.00
980	0.32	530	0.00
970	0.17	520	0.00
960	0.15	510	0.00
950	0.15	500	0.00
940	0.17	490	0.00
930	0.22	480	0.00
920	0.44	470	0.00
910	1.95	460	0.00
900	2.10	450	0.00
890	0.62	440	0.00
880	0.34	430	0.00
870	0.27	420	0.00
860	0.33	410	0.00
850	0.62	400	0.00
840	1.15	390	0.00
830	1.50	380	0.00
820	0.64	370	0.00
810	0.37	360	0.00
800	0.33	350	0.00
790	0.49	340	0.00
780	0.65	330	0.00
770	0.93	320	0.00
760	1.12	310	0.00
750	1.49	300	0.00
740	2.86	290	0.00
730	3.13	280	0.00
720	4.49	270	0.00
710	11.80	260	0.00
700	33.02	250	0.00
690	52.29	240	0.00
680	78.07	230	0.00

PART SUFFIX	THREAD DIAxPITCH	EXTERNAL DIAM (mm)	APERTURE DIAM (mm)
-22.5	M22.5xP0.5	24	18.5
-25.5	M25.5xP0.5	27.5	21
-27	M27.0xP0.5	29	23
-30.5	M30.5xP0.5	32.5	26.5
-34	M34.0xP0.5	36	30
-35.5	M35.5xP0.5	37	31.5
-37	M37.0xP0.75	39	33
-37.5	M37.5xP0.5	39.5	33.5
-40.5	M40.5xP0.5	42	36
-43	M43.0xP0.75	45	39.5
-46	M46.0xP0.75	48	41.5
-49	M49.0xP0.75	51	44.5
-52	M52.0xP0.75	54	47.5
-55	M55.0xP0.75	57	50.5
-58	M58.0xP0.75	60	53.5
-62	M62.0xP0.75	65	57.5
-67	M67.0xP0.75	70	63.2
-68	M68.0xP0.75	70	63.2
-72	M72.0xP0.75	75	37.7
-77	M77.0xP0.75	80	73
-82	M82.0xP0.75	85	78.8
-86	M86.0xP0.75	90	80
-95	M95.0xP0.75	99	90
-105	M105.0xP1.0	109	100

670	94.81	220	0.00
660	96.25	210	0.00

Click here for PDF drawing of standard mounts

MIDWEST OPTICAL SYSTEMS
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Slip Mounts:

If your lens does not have threads for mounting a filter, *Slip Mount adapters* are available. Slip Mounts can attach a regular filter to a lens or attach a very large filter to accommodate a wide angle lens. ***Please call*** to order Slip Mount adapters.

C-Mounts:

3mm thick threaded mount for adding a filter between lens and camera

Click here for PDF drawing of c-mounts

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