

Product Highlights

- Eliminating all but a narrow band of light (+/- 40nm) centered on the specified wavelength, band pass filters are used to enhance colors, or to stop unwanted ambient light from reaching the camera.
- Filtering can replace existing shrouds, simplifying the physical set up of an inspection site.
- Ai offers 660nm and 635nm band pass filters to fit a number of different lens sizes.



General Specifications

Electrical Specifications	Color	24V Current	All Other Controls
	N/A	N/A	N/A

# BP660 & BP635

## Part Number Key

Model	—	Filter Diameter
BP660	—	XXX
BP660		25.5 27 30.5 35.5 37 40.5 43 46 49

Model	—	Filter Diameter
BP635	—	XXX
BP635		25.5 27 30.5 40.5 43 46 49

## Data Points - Typical

### 635nm

Wavelength (nm)	Transmission (%)
1100	43.88
1090	40.13
1080	26.75
1070	12.29
1060	4.75
1050	2.16
1040	1.26
1030	0.92
1020	0.87
1010	1.04
1000	1.36
990	1.46
980	1.10
970	0.58
960	0.29
950	0.20
940	0.16
930	0.68
920	0.22

Wavelength (nm)	Transmission (%)
910	0.70
900	0.87
890	2.92
880	1.43
870	0.45
860	0.27
850	0.26
840	0.37
830	0.73
820	1.37
810	1.03
800	0.54
790	0.41
780	0.47
770	0.70
760	0.96
750	0.79
740	0.67
730	0.88

Wavelength (nm)	Transmission (%)
720	1.74
710	2.78
700	3.05
690	4.86
680	14.56
670	38.93
660	57.29
650	86.91
640	96.69
630	95.57
620	91.41
610	78.32
600	52.26
590	14.99
580	0.97
570	0.06
560	0.02
550	0.01
540	0.00

Wavelength (nm)	Transmission (%)
530	0.00
520	0.00
510	0.00
500	0.00
490	0.00
480	0.00
470	0.00
460	0.00
450	0.00
440	0.00
430	0.01
420	0.00
410	0.00
400	0.00
390	0.00
380	0.00
370	0.00
360	0.00
350	0.01

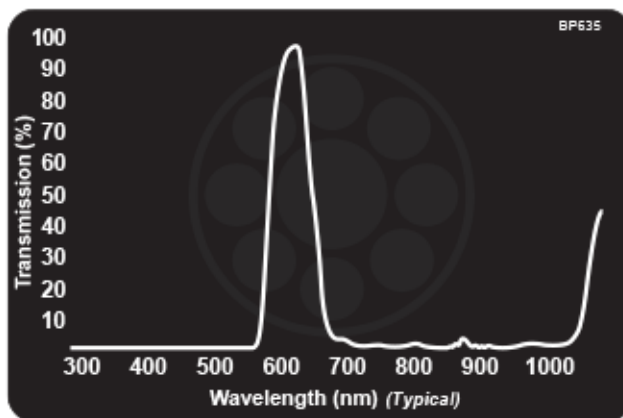
# BP660 & BP635

660nm

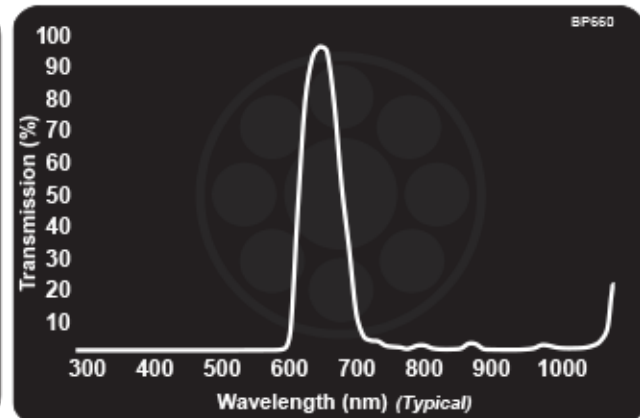
Wavelength (nm)	Transmission (%)	Wavelength (nm)	Transmission (%)	Wavelength (nm)	Transmission (%)	Wavelength (nm)	Transmission (%)
1100	2.49	910	0.39	720	6.47	530	0.00
1090	1.61	900	0.97	710	18.54	520	0.00
1080	1.17	890	0.09	700	47.30	510	0.00
1070	1.07	880	0.62	690	66.99	500	0.00
1060	1.20	870	0.50	680	88.62	490	0.00
1050	1.53	860	0.65	670	96.74	480	0.00
1040	1.73	850	0.99	660	96.53	470	0.00
1030	1.39	840	0.67	650	91.93	460	0.00
1020	0.77	830	0.40	640	80.14	450	0.00
1010	0.37	820	0.34	630	49.77	440	0.00
1000	0.21	810	0.40	620	13.55	430	0.00
990	0.14	800	0.65	610	1.54	420	0.00
980	0.13	790	0.89	600	0.31	410	0.00
970	0.16	780	0.76	590	0.14	400	0.00
960	0.26	770	0.69	580	0.07	390	0.01
950	0.49	760	0.93	570	0.03	380	0.00
940	1.67	750	1.95	560	0.01	370	0.00
930	1.97	740	3.61	550	0.01	360	0.00
920	0.62	730	4.22	540	0.00	350	0.00

## Optical Specs

### Electrical Specifications



635nm



660nm

## Warranty Information

Every Advanced illumination, Inc. (Ai) product is thoroughly inspected and tested before leaving the factory. Products are warranted to be free of defects in workmanship and materials for a period of FIVE YEARS from the original date of purchase. Should a defect develop during this period, customers may return the complete product, freight prepaid, to one of Ai's distributors or to the Ai factory. All product warranty returns require a Return Merchandise Authorization (RMA) number which is obtained from Customer Service. The RMA number must be clearly marked on the outside of the package. Ai will inspect the unit, and if a defect is found will, at our option, repair or replace the product without charge. Ai disclaims liability for any implied warranties, including implied warranties of "merchantability" and "fitness for a specific purpose." For products under warranty that have since been discontinued, Ai will make an effort to replace with equivalent parts; for circumstances that do not allow for equivalent replacement, Ai reserves the right to repair or replace these products with an updated version. Ai cannot be held responsible for the unauthorized or inappropriate use of its products. Any unauthorized repair or modifications will result in a voided warranty.

No Liability for Consequential Damages: In no event shall Ai be liable for any consequential, special, incidental, or indirect damages of any kind arising from the sale or use of the products.

## Electromagnetic Compatibility

This product was tested and complies with the regulatory requirements and limits for electromagnetic compatibility (EMC) as stated in the product specifications. These requirements and limits are designed to provide reasonable protection against harmful interference only when the product is operated in its intended industrial electromagnetic environment. To minimize the potential for electromagnetic interference or unacceptable performance degradation, install and use this product in strict accordance with the instructions in the product documentation.

## Customer Service

For information on existing orders, or to make an order adjustment, contact us Monday through Friday 8:00 am to 5:00 pm ET or send an email to [orders@advancedillumination.com](mailto:orders@advancedillumination.com).

## Company Information

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