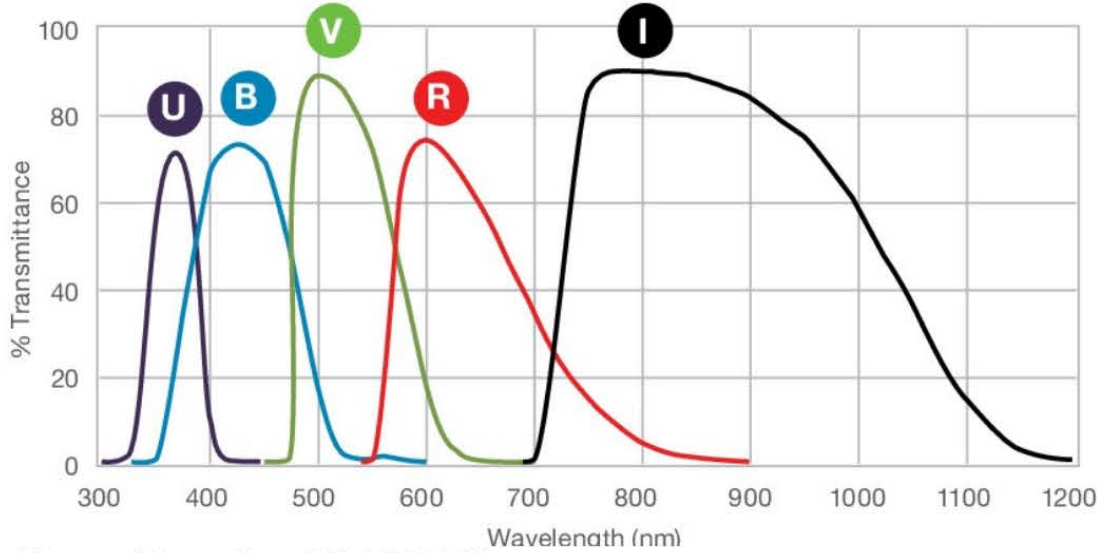


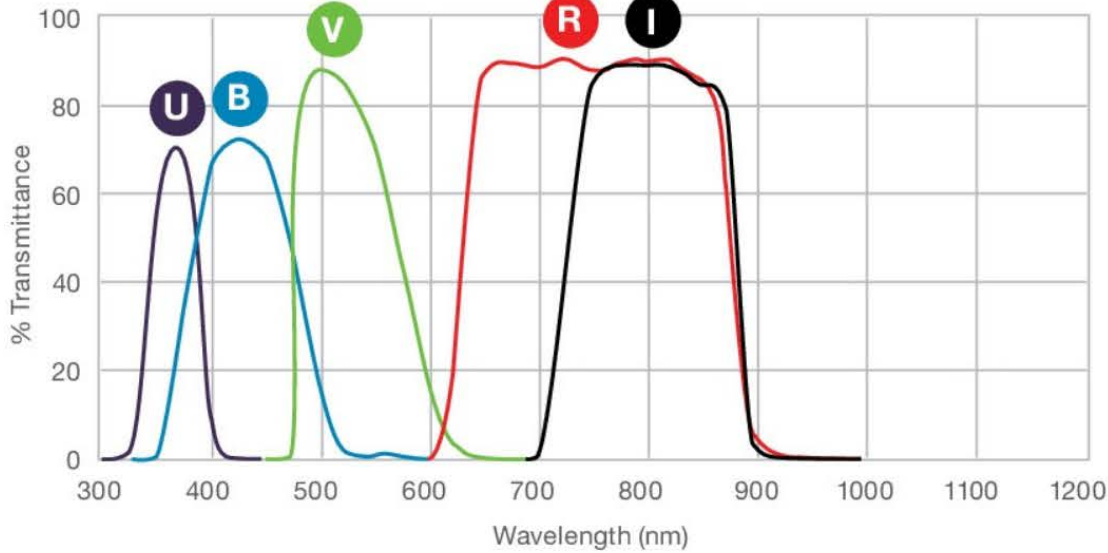
ASTRONOMY FILTERS



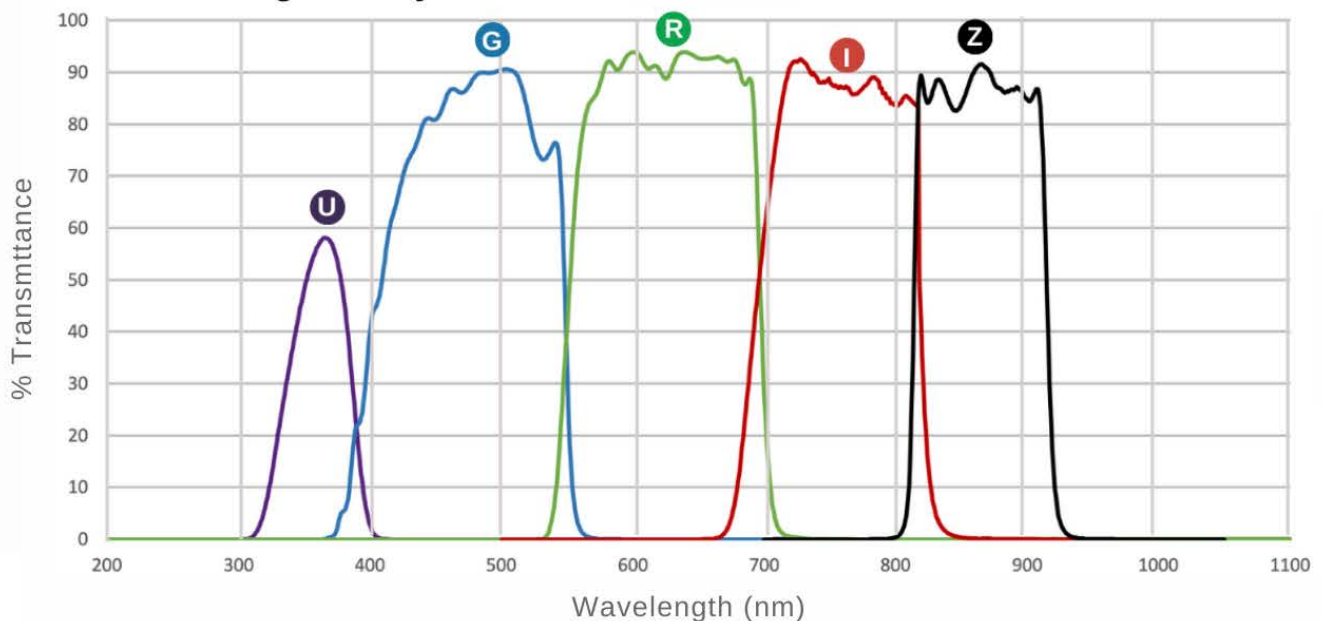
Johnson/Bessel UBVRI Filters



Kron's/Cousins UBVRI Filters



Sloan Digital Sky Filters UGRIZ Filters



Astronomy UBVRI Filters



Andover Corporation offers two sets of UBVRI filters, the Johnson/Bessel and the Kron/Cousins types, as standard items. These wideband filters isolate and measure large specific bands of light emitted by astronomical objects. Both types have the same ultraviolet, blue and visible filters but different red and infrared filters.

The Johnson/Bessel type is better suited for use with a photomultiplier tube, while the Kron/Cousins type is better suited for use with Silicone CCD.

- Options for professionals and amateurs alike
- Ideal for photometric calibration

General Specifications

Thickness:	5.0mm +/-0.1mm
Size Tolerance:	+0/-0.25mm
Bevels:	Break all sharp edges
Coating Durability:	Per MIL-C-48497A moderate abrasion
Transmitter Wavefront:	1/4 wave or better per 25mm
Parallelism:	30 arc seconds or better
Surface Quality:	60/40 or better per MIL-C-675
Optical Quality:	Image Quality
AR Coatings:	Exterior surfaces

Contact Andover technical sales if you have any questions or require a quotation for a custom size or mounting.

Johnson/Bessel UBVRI Filters

Type	Size, Shape & Part Number & Type				
	25mm Ø	50mm Ø	50mm SQ	Mounted 31mm Ø	Mounted 50mm Ø
U Ultraviolet	JOHN-U-25	JOHN-U-50	JOHN-U-50S	JOHN-U-31M	JOHN-U-50M
B Blue	JOHN-B-25	JOHN-B-50	JOHN-B-50S	JOHN-B-31M	JOHN-B-50M
V Visible	JOHN-V-25	JOHN-V-50	JOHN-V-50S	JOHN-V-31M	JOHN-V-50M
R Red	JOHN-R-25	JOHN-R-50	JOHN-R-50S	JOHN-R-31M	JOHN-R-50M
I Infrared	JOHN-I-25	JOHN-I-50	JOHN-I-50S	JOHN-I-31M	JOHN-I-50M
5 Piece Sets	JOHN-FA-25	JOHN-FA-50	JOHN-FA-50S	JOHN-FA-31M	JOHN-FA-50M

KRON/Cousins UBVRI Filters

Type	Size, Shape & Part Number & Type				
	25mm Ø	50mm Ø	50mm SQ	Mounted 31mm Ø	Mounted 50mm Ø
U Ultraviolet	KRON-U-25	KRON-U-50	KRON-U-50S	KRON-U-31M	KRON-U-50M
B Blue	KRON-B-25	KRON-B-50	KRON-B-50S	KRON-B-31M	KRON-B-50M
V Visible	KRON-V-25	KRON-V-50	KRON-V-50S	KRON-V-31M	KRON-V-50M
R Red	KRON-R-25	KRON-R-50	KRON-R-50S	KRON-R-31M	KRON-R-50M
I Infrared	KRON-I-25	KRON-I-50	KRON-I-50S	KRON-I-31M	KRON-I-50M
5 Piece Sets	KRON-FA-25	KRON-FA-50	KRON-FA-50S	KRON-FA-31M	KRON-FA-50M

Sloan Digital Sky Filters (SDSS)

Like the KRON and JOHN filters, Sloan filters are used to filter out and measure specific bands of light that are emitted by astronomical objects. The difference between SDSS filters and the KRON and JOHN filters is that they are non-overlapping and have steeper transitions between bands. The Sloan bands are U, G, R, I, and Z. Refocusing is always a problem when changing filters. Andover can minimize this problem by grinding and polishing all filters to a very precisely controlled specified thickness.

These filters are also AR coated to provide optimal performance and better imaging. Sloan Digital Sky Survey has created a detailed three-dimensional map of the universe using these filters. (www.SDSS.org)

The Sloan (SDSS) filters are available in a range of standard and custom sizes. Each band can be customized to fit your project.

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