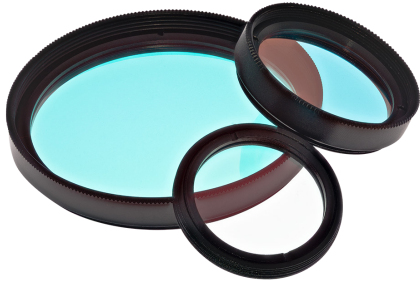


DUAL BANDPASS FILTERS

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MIDOPT
MIDWEST OPTICAL SYSTEMS, INC.



Dual Bandpass Filters are ideal for applications that use a color camera during the day and IR illumination at night – ensuring that clear, accurate images are acquired under all lighting conditions.

FEATURES

- Pass visible light and a specific narrow IR band
- Achieve accurate color rendition by blocking interfering wavelengths
- Allow viewing a scene with appropriately matched IR illumination at night

Useful for: video security, red light camera, game camera and license plate recognition applications

MOUNT & SIZE OPTIONS

- Threaded Mount, C/CS Mount, Slip Mount, Unmounted
- Threaded Mount Sizes: M13.25 - M82
- Custom sizes and shapes available

VISIBLE + NEAR-IR

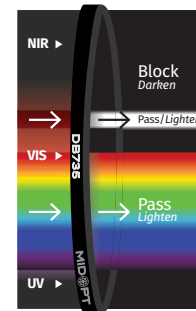
Ideal for applications that use a color camera, allowing for accurate color images during the day and monochrome or color images at night. These filters pass visible light and a narrow IR band that make viewing with commensurate IR illumination possible at night.

WORKS TWICE AS HARD

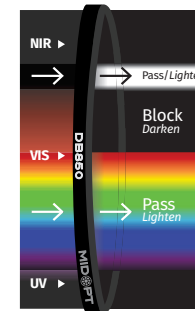
COLOR BY DAY, INFRARED BY NIGHT

Part #	Description	Useful Range	FWHM	Tolerance	Minimum Peak Transmission	Surface Quality
DB SERIES — DUAL BANDWIDTH						
DB735	Dual Bandpass Visible + 735nm NIR	Visible 405-645nm NIR 725-755nm	250nm, 50nm	+/- 20nm	90%	40/20
DB850	Dual Bandpass Visible + 850nm NIR	Visible 405-645nm NIR 835-875nm	250nm, 50nm	+/- 20nm	90%	40/20
DB940	Dual Bandpass Visible + 940nm NIR	Visible 405-650nm NIR 925-965nm	250nm, 60nm	+/- 20nm	90%	40/20

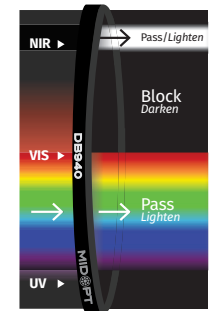
**Due to continuous product improvement, specifications are subject to change without notice.*



● DB735



● DB850



● DB940

DEFINITION

A dual bandpass filter transmits two specific wavelength ranges while blocking shorter and longer wavelengths as well as some middle portion of the spectrum. These filters in particular pass visible light and some smaller portion of the near-infrared spectrum. Blocking most of the near infrared allows for excellent color rendition while retaining the ability to pass a specific LED or laser diode wavelength used for night time illumination.