

# Custom Wavelength Selectors

Custom performance in a cost-effective format that ships in only 72 hours



CWS-CL-M-A



CWS-B-M



CWS-CL-M

## Ideal for

- Fluorescence microscopy – excitation and detection
- Machine vision – optimized illumination and detection
- Forensics – filter your light source or camera for maximum trace visibility
- Multi – spectral imaging-large uniform aperture

## Key product advantages

- Custom bandpass performance
- Ships in 48 hours
- Customer defined bandwidth – FWHM from 2 nm–16 nm
- Customer defined center wavelength – from 350 nm to 900 nm
- Up to 80% in-band transmission efficiency
- High ( $10^6$ ) out of band extinction
- Large (up to 10 mm diam.) circular aperture
- Compact rugged optomechanical package
- Optional mounts for simple integration

Based on our patented TwinFilm™ technology, Custom Wavelength Selectors are simple, rugged, optomechanical devices that are factory set to your exact specifications without the usual time and cost associated with obtaining custom bandpass filter performance. You specify the center wavelength and the bandpass (FWHM) and, in most cases, we prepare and ship these units within 72 hours of receiving your specifications-it really is that fast!

These Custom Wavelength Selectors are ideal for any imaging, microscopy, or illumination application that can benefit from bandpass performance which is optimally shaped, e.g., to match the emission profile of a new fluorophore, or to match the emission spectrum of a fluorochrome that is shifted slightly due to factors such as the particular excitation wavelength being used. They can also be used to produce monochromatic light from a collimated, broadband light source, such as the Mighty Light Beam from Spectrolight, for microscopy and other monochromatic illumination applications.

The traditional method of getting custom bandpass performance is to design and fabricate a thin film optic. While thin film custom optics can be a good solution for high volume OEMs, the lead time and cost involved make them impractical for single units, or even very small batches, or where delivery times need to be days rather than weeks or months. A mismatched filter can lead to cross-talk between detection channels, poor signal-to-noise and other data problems. Get the exact match you need in just days with Spectrolight's Custom Wavelength Selector.

Click [here](#) to specify your Custom Wavelength Selector and obtain a quote for immediate shipping.