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KEY FEATURES:

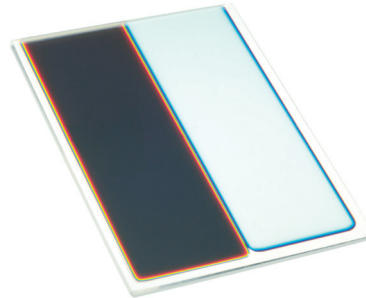
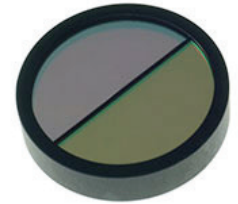
- Custom order-sorting filters designed to meet customer requirements:
 - Block filters
 - Patterned filters
 - Absorbing filters
 - Linearly Variable Filters
- Custom sizes available

APPLICATIONS:

- Sensing
- Machine Vision
- Astronomy

In response to the miniaturization of optical systems and sensors, Omega has taken a fresh approach to an old problem – order sorting filters.

Block filters provide a butcher-block array of multiple filters in a single assembly (see photo on left). Complex and miniature arrays are possible, and can also be provided in circular mounting and filter wheels.



Patterned filters provide an array of multiple filters coated in a pattern on a single substrate, allowing optimal miniaturization and integration with image sensors, and eliminating component assembly.

Absorbing coatings are particularly useful in reducing reflected light and signal interference within an optical system using order sorting. Omega is developing filters using new high index dielectric materials which provide high absorption and dramatically reduced reflections in the visible and NIR regions.

Linear variable filters (LVF) provide continuous spectral variation in wavelength across one linear direction of the filter. These filters can be reduced to the size of the detector for hyperspectral capability, or order sorting for spectrometers. Custom longpass, shortpass, and bandpass linear variable filters can be developed to meet your spectral and physical requirements.

Combining LP and SP LVFs in a system enables adjustable variable - width bandpass filters for sensing and imaging applications.

Please contact us to request a quote for your specifications.

