



MATERION



**BARR PRECISION OPTICS
& THIN FILM COATINGS**

**Gesture Control
Filters**

Gesture Control Filters

The Challenge

Gesture recognition applications require superior signal-to-noise ratios, and Materion delivers! We achieve this through our highly advanced and sophisticated coating technology which produces optical filters with industry-leading performance and reliability.

Materion Barr Precision Optics & Thin Film Coatings offers high-volume, custom narrow band filters that provide high transmission in specified wavelength regions and furnish deep blocking in the visible and infrared wavelength range.

BENEFITS

There are a number of advantages that differentiate our gesture control filters:

- Selection of transmission & blocking levels over a range of angles optimizes sensor performance
- Filter-to-filter consistency ensures all sensors respond identically to the same inputs
- Durable coatings offer environmental stability
- High volume production with tight process controls yield top quality products at low cost

GESTURE CONTROL CAPABILITIES

Our filters are specifically designed with low angle sensitivity which makes them suitable for wide angle viewing.

- Custom bandpass filters in the near infrared spectral region
- > 90% transmission in the passband region
- Bandwidth (FWHM) as narrow as 10nm
- Wavelength tolerance of < 1% typical (can be manufactured to a tighter tolerance)
- > OD 3 blocking from 200nm to 1200nm

Materion ... Delivering New Levels of Innovation

www.materion.com/barroptics



SPECIALIZED EXPERTISE

The conversion of human gestures to electronic commands enables the latest generation of interactive gaming, exercise and entertainment equipment. Materion is proficient in developing all facets of gesture recognition filters and sensors that make these products function.

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