

# High Performance Thin Film Optical Coatings

## Technical Reference Document

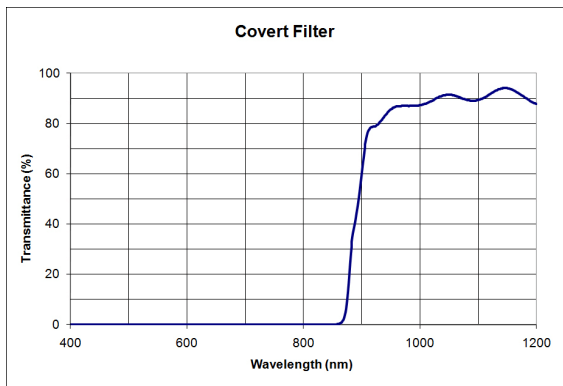
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### Coatings Capabilities

**IR Filters (Covert, Semi-Covert, Blackeye)** - Typically used with infra-red cameras, scopes, and night vision goggles for surveillance, these filters enable infrared energy to be emitted from a variety of light sources while blocking visible energy, avoiding detection by the unaided eye.

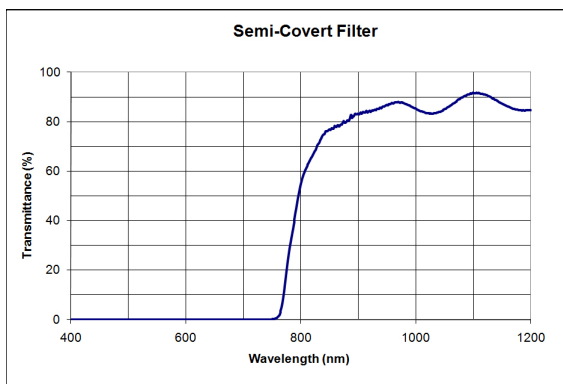
**Specifications:**

- Substrate:** Any glass substrate
- Thickness:** 1.1mm, 1.75mm, and 3.3mm
- Size:** Up to 24" in diameter



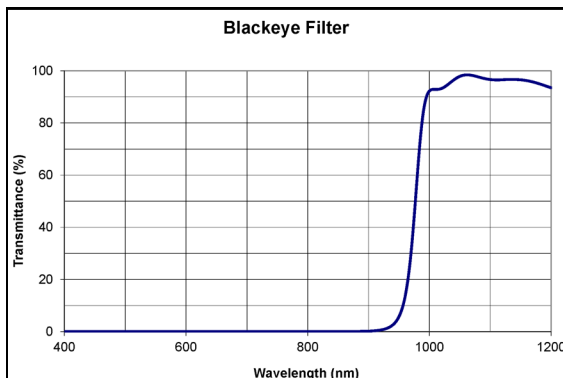
**Covert Filter**

This covert filter design blocks energy with wavelengths shorter than 825nm.



**Semi-Covert Filter**

This semi-covert filter design transmits more of the near infrared energy. These filters are used with imaging systems requiring greater sensitivity to wavelengths 800-900nm.



**Blackeye Filter**

This unique filter consists of a two piece optically coated substrate designed to block the visible output of a light source from as close as 3 feet. Transmittance is  $\leq 1.0\%$  average from 400 to 890 nm and  $\geq 65\%$  average from 950 to 2500nm. Reflectance is  $\leq 5.0\%$  average from 400 to 700nm. It is ideally suited for use with night vision equipment or CCD cameras for short or long range surveillance applications.