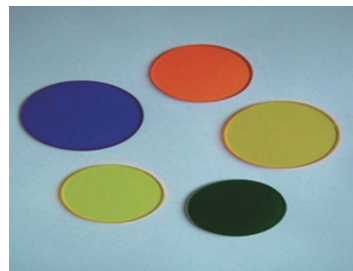


Filters

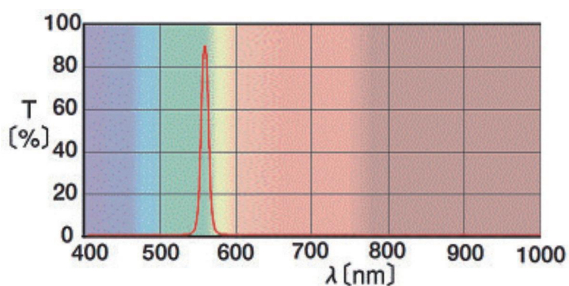
Filters alter the characteristics of a beam of light either by changing the overall intensity of the beam without affecting its spectral content or by changing or separating the spectral content of the beam through wavelength-selective absorption or reflection. Hontec optical filters are manufactured with IAD coating systems to ensure that the coatings meet your damage threshold, environmental stability, temperature cycling and durability requirements.



► Laser Line Interference Filters

An increase in the angle of incidence causes a shift of the center wavelength to shorter wavelengths. This can be very useful in tuning a narrowband filter to a desired wavelength.

Hontec optics supplies high quality standard and custom-made interference filters within the spectral range from 350 nm to 1200 nm. We also can offer biomedical bandpass filters, which are specially designed for biomedical instrumentation, including chemistry analyzers and microplate readers. These bandpass filters include standard or custom matched filters. Fluorescence filters, which we can supply includes such features as steep slopes, deep blocking (up to OD 4), minimal spectral crosstalk, high transmission and environmental durability.

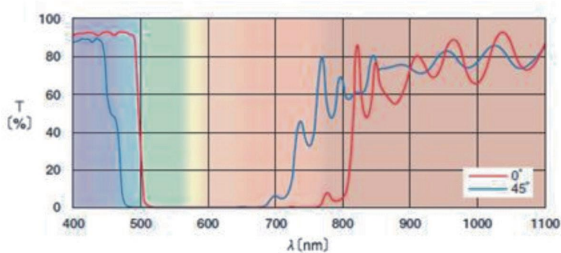
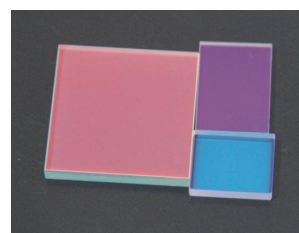


Specifications:

Material: BK7 or Fused Silica
 Peak Transmission: >85% ave
 Out-of-Band Blocking: <10-4ave
 FWHM: 10nm
 Working Wavelength: 300-1200nm
 Surface Quality: 20-10
 Clear Aperture: >90%
 Wavelength shift with temperature: <0.25nm/°C

► Dielectric Coating Filter

Hontec optics offers dielectric coating filters made of optical materials such as Colored Glass, BK7, Fused Silica and so on. The dielectric coating filters include bandpass filters, dichroic filters, long-Wave pass filters and short-Wave pass filters. The transmissive ranges of wavelength is customized and high transmission at specified wavelength is available upon request.



Specifications:

Material: BK7, UV grade Fused Silica (FS)
 Dimension Tolerance: +0.0/-0.1mm
 Thickness Tolerance: ±0.1mm
 Clear Aperture: >90%
 Flatness: $\lambda/8$ @ 632.8nm per 25mm range
 Parallelism: <1 arc minute
 Surface Quality: 40/20 scratch and dig
 Coating: Dichroic coating on one side, rear side AR coated, reflected wavelength R>99.5%, Transmitted wavelength T>85%
 Damage Threshold: >10J/cm², 20ns, 20Hz, @1064nm
 Standard Wavelength: 1064/532nm