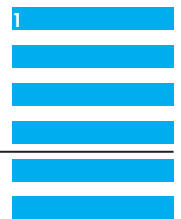


# Glossary



| A                   |   |
|---------------------|---|
| AR Coating          | Antireflective coating that reduces the surface reflection of an optic  |
| Absorptance         | The ratio of absorbed to incident radiation   |
| B                   |   |
| B/W                 | Bandwidth   |
| Bandpass Filter     | A filter that transmits a specific band of energy and rejects all other energy at higher and lower wavelengths  |
| Bandwidth           | The spectral width of a filter measured at half of the peak transmission; also referred to as full width at half maximum (FWHM)   |
| Blocking Range      | The spectral range of unwanted radiation  |
| C                   |   |
| Cavity              | An internal structure of a bandpass filter, consisting of two reflecting stacks of dielectric material separated by an even-ordered spacer. The number of cavities determines the shape of the passband |
| Center Wavelength   | The wavelength coinciding with the midpoint of the passband   |
| Cold Mirror         | A filter which reflects the visible energy and transmits the near infrared energy   |
| Commercial Quality  | A filter designed for use in non-imaging instrumentation applications   |
| CW/L                | Center wavelength   |
| F                   |   |
| Fabry-Perot Filter  | Dielectric filter construction based on the Fabry-Perot interferometer. Consists of two reflective stacks separated by an even-ordered spacer   |
| FIR                 | Far Infrared (wavelengths from 30 $\mu$ m to 1000 $\mu$ m)  |
| FWHM                | Full width at half maximum or the bandwidth of the filter   |
| H                   |   |
| Hot Mirror          | A filter that reflects the near infrared energy (heat) and transmits the visible energy   |
| I                   |   |
| Image Quality       | A filter designed for use in imaging applications   |
| Index of Refraction | The ratio of the velocity of light in a vacuum to the velocity of light in a refractive material  |
| Interferometer      | An instrument that measures the accuracy of an optical element utilizing interference phenomena based on the wave characteristics of light  |
| IR                  | Infrared Spectrum (wavelengths from 3 $\mu$ m to 30 $\mu$ m)  |

| L                 |  |
|-------------------|--|
| Long Pass Filter  | A filter which transmits the longer wavelengths and rejects the shorter wavelengths  |
| M                 |  |
| MDM               | Metal-Dielectric-Metal   |
| N                 |  |
| N*                | The effective refractive index of the filter   |
| ND Filter         | A neutral density filter that transmits a specific amount of energy equally over all wavelengths   |
| NIR               | Near Infrared Spectrum (wavelengths from 750nm to 3 $\mu$ m )  |
| P                 |  |
| Passband          | The band of energy that is transmitted (passed) by the filter  |
| Polarization      | A process or state in which rays of light exhibit different properties in different directions, especially the state in which all vibration takes place in one plane |
| R                 |  |
| R/T ratio         | The ratio of reflectance to transmittance  |
| Reflectance       | The ratio of the total amount of radiation reflected by a surface to the total amount of radiation incident on the surface   |
| Refractive Index  | The ratio of the velocity of light in a vacuum to the velocity of light in a refractive material   |
| S                 |  |
| Short Pass Filter | A filter that transmits the shorter wavelengths and rejects the longer wavelengths   |
|                   | An instrument that measures intensity of light at varying wavelengths  |
| T                 |  |
| T or Tx           | Transmittance  |
| Transmittance     | The ratio of the radiant energy transmitted to the total radiant energy incident on the filter   |
| U                 |  |
| UV                | Ultraviolet spectrum (wavelengths below 400nm)   |
| V                 |  |
| VIS               | Visible spectrum (wavelengths from 400nm to 750nm)   |