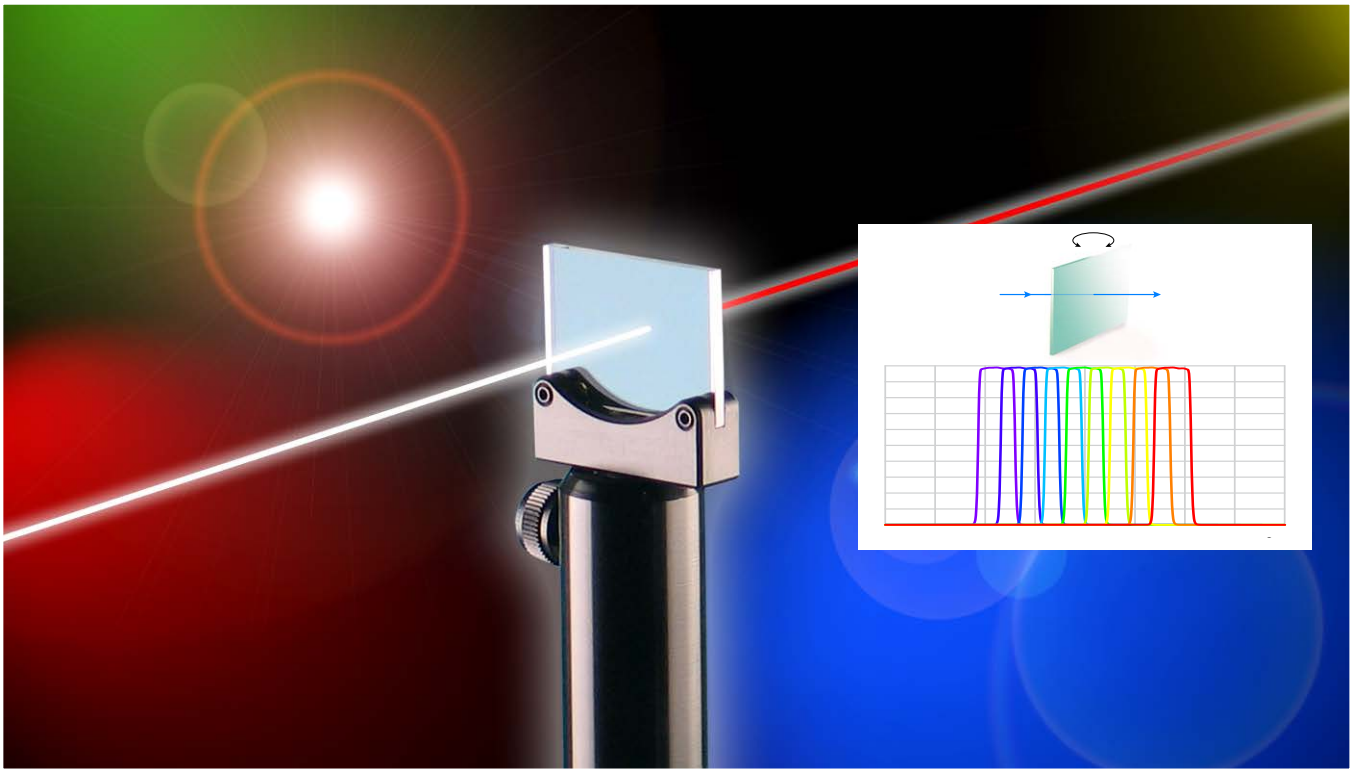
AHF ANALYSENTECHNIK

VersaChrome® TUNABLE FILTERS

Dynamic filtering in optical systems



REALIZING ADVANTAGES OF THIN-FILM INTERFERENCE FILTERS

Conventional spectral imaging systems are generally not able to offer the key advantages of thin-film interference filters, i.e., high transmission combined with steep spectral edges and high out-of-band blocking. With VersaChrome® filters, these advantages can be realized in simple spectral imaging systems for applications ranging from fluorescence microscopy to hyperspectral imaging.

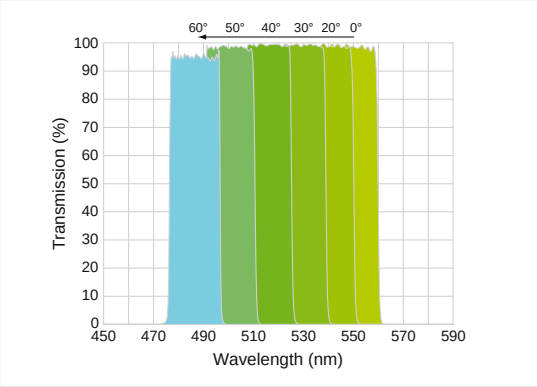
YOUR BENEFITS

- The transmission band can be tuned by adjusting the angle of incidence with no loss in spectral performance
- Cover the full visible spectrum with only five bandpass filters

OUR PARTNER

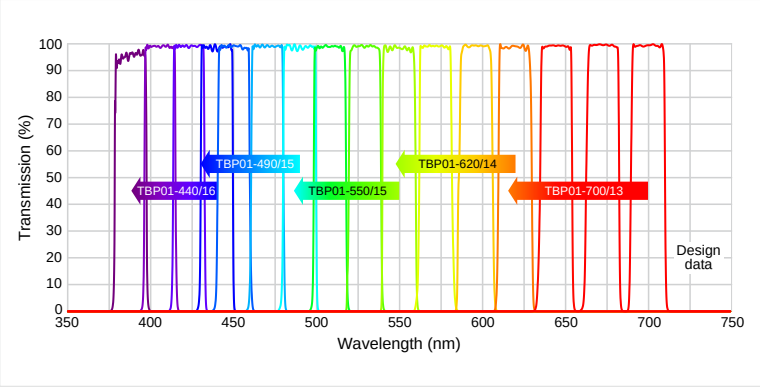
Semrock

OUR EXPERIENCE ... YOUR PROFIT!



ANGLE TUNING OF VersaChrome® FILTERS

:: Spectral shift within 12 % of central wavelength by angle tuning between 0° to 60°
:: High passband transmission (> 93 % typical)
:: Steep spectral edges and OD6 blocking
:: Constant bandwidth over full wavelength range
:: Polarization insensitive & imaging optical quality
:: High laser damage threshold (LDT): 1 J/cm²

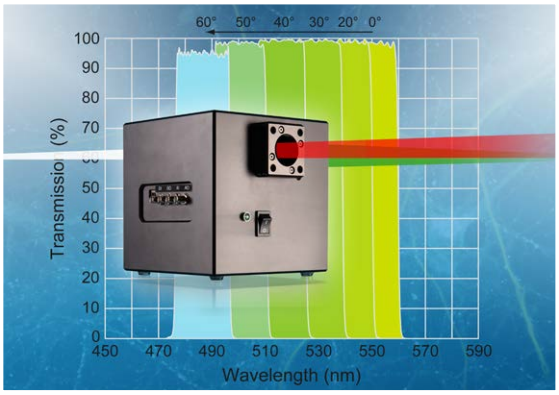


CREATE YOUR BANDWIDTH

:: Only five VersaChrome® filters necessary to cover the whole visible range!
:: Choose from the wide selection of bandpass, shortpass and longpass tunable filters

APPLICATIONS

:: Perfect for ratio measurements e.g. Fura^{2+} excitation (340 / 380 nm)
:: Wavelength selection for supercontinuum lasers
:: Combine different tunable filters for individual solutions (bandpass / shortpass / longpass)



ADAPT FAST AND EASY SPECTRAL PROPERTIES WITH THE »TUNECUBE«

:: Software-controlled device for dynamic spectral adaption of optical filters
:: Using reflection and transmission signal
:: Static light path – no beam-deviation
:: Fast and convenient wavelength selection (bandpass / longpass / shortpass)
:: Optimize your signal-to-noise ratio
:: Switch between fluorophores

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