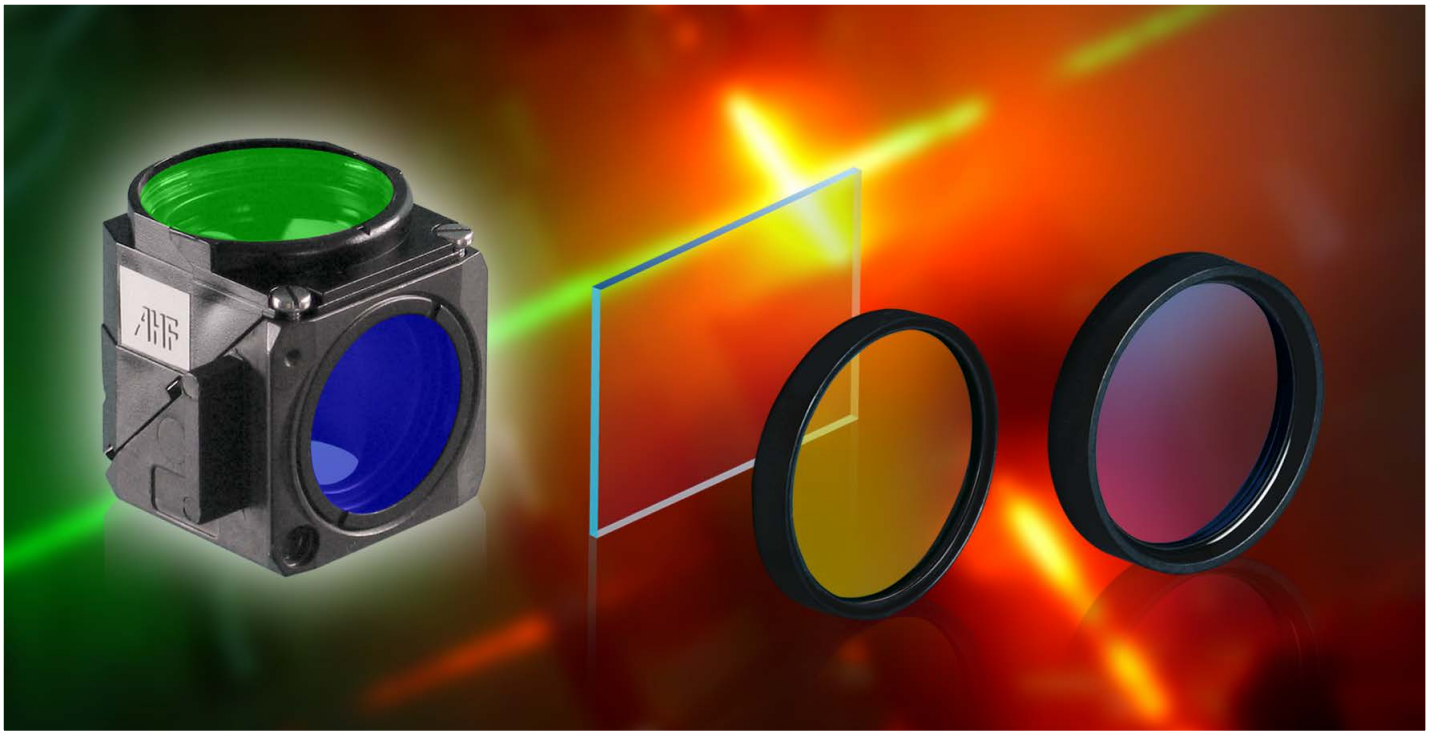
AHF ANALYSENTECHNIK

ULTRA STEEP OPTICAL FILTERS

When every photon counts



APPLICATIONS

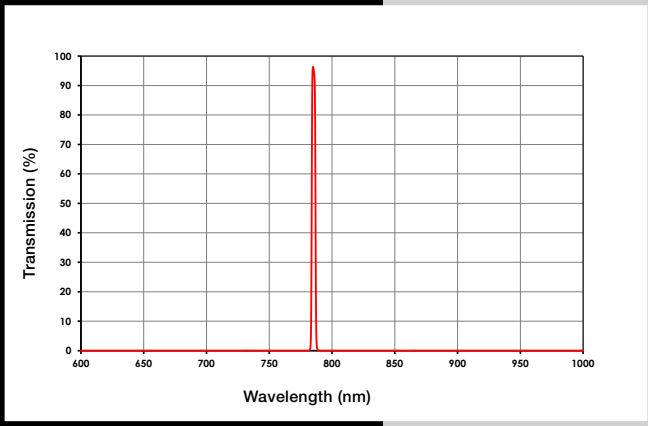
:: Measurement of Raman scattering (Stokes / Anti-stokes) signals, e.g. SERS, SRS
:: CARS (Coherent Anti-Stokes Raman Spectroscopy)
:: Laser reflection and suppression in flow cytometers (FACS) and microscopes
:: Measurement in quantum optics

YOUR BENEFITS

:: Extremely steep spectral designs
:: Transition width up to 0.5 % of laser wavelength
:: Best signal-to-noise ratios (SNR)
:: Low ripples in passband
:: No spectral drift over time
:: Hard ion-beam sputtered filters

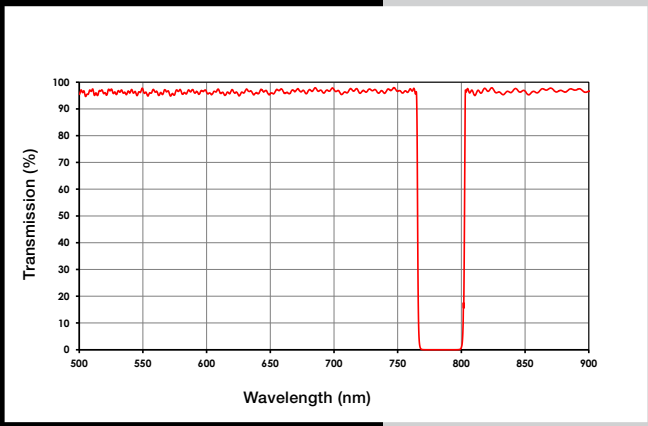
OUR PARTNER

IDEX HEALTH & SCIENCE | Semrock



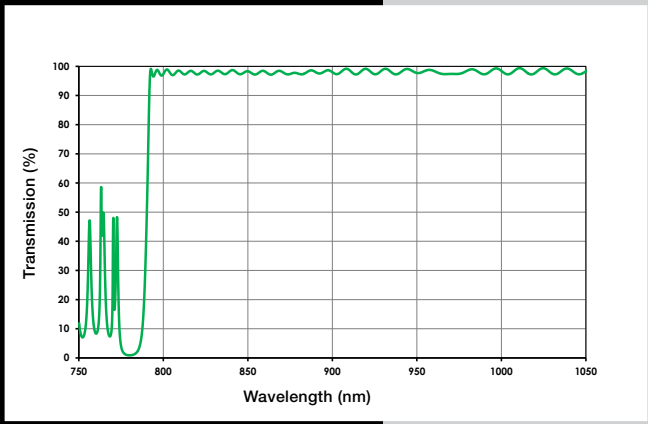
MaxLine® CLEAN-UP FILTERS

:: Extremely narrowband (up to FWHM 1.2 nm) clean-up filters
:: Perfectly matched to the corresponding RazorEdge® filters
:: OD 6 blocking typical within 1.5 % of laser wavelength
:: Very high transmission (up to 95 %)
:: Eliminate laser spectral noise leakage



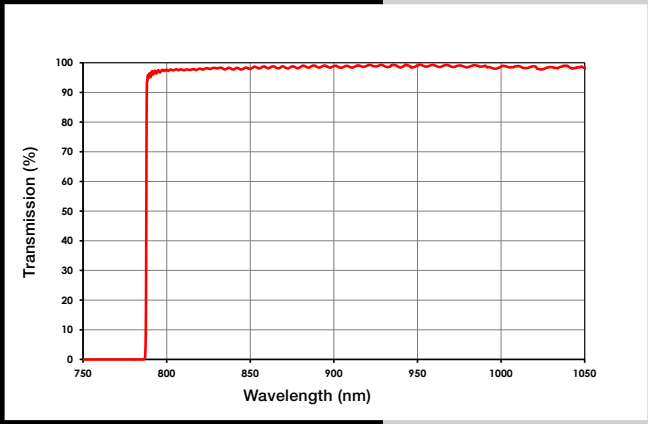
NOTCH-FILTERS

:: Very narrow bandwidth up to 9 nm
:: E-grade with laser-line blocking > OD 6
:: Ultra wide passband range 350 to 1600 nm
:: High transmission to detect weak signals
:: Dual- / Triple- / Quad-notch filters for different laser wavelengths available



RazorEdge® BEAMSPLITTERS

:: Full laser line reflection at 45° incidence with ultrasteep transition from reflection to transmission
:: Transition width < 1 % of laser wavelength
:: For “U-grade”, no polarization shift!
:: Perfectly matched to RazorEdge® longpass filters



RazorEdge® LONGPASS FILTERS

:: Transition width 0.5 % of laser wavelength for E-grade filters from laser line blocking OD 6 to 50 % transmission
:: Ultra-wide transmission range with very high transmission (> 95 %)
:: High laser damage threshold 1 J / cm² @ 532 nm 10 ns pulse width
:: Also available as shortpass filters
:: For measurement of Stokes / Anti-Stokes signals

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