



Optical filters

With technology using large batch sizes,
DELTA can reduce the cost of advanced optical filters



We make optical thin film filters



DELTA Light & Optics is also an OEM supplier of optical sensors and instrumentation and operates a nationally accredited lighting laboratory.

Why optical filters from DELTA?

DELTA's manufacturing technology enables us to produce very advanced filters in high volume at very competitive prices. With technology using large batch sizes, DELTA can reduce the cost to a level that makes it beneficial for both you and us.

DELTA produces some of the most advanced optical filters in the field. Specialised in filters operating in the UVA-visible-NIR window, with high demanding optical characteristics, DELTA has something unique to offer that you cannot get elsewhere.

Linear variable filters

DELTA's linear variable filters set new standards offering unmatched levels of transmission blocking level and tuning range.

DELTA has lifted the quality of variable filters to new levels, by introducing a new powerful combination of a linear variable long wave pass (LWP) filter and the corresponding linear variable short wave pass (SWP) filter. Each of the optical filters can be used separately as a tunable edge filter. Combining the two filters enables the construction of bandpass filters,

whose centre wavelengths and FWHM values can be tuned continuously.

The high transmission, steepness of edges and blocking level, make them ideal for fluorescence based instruments and spectrometers.

Latest additions to the family of linear variable filters are a linear variable dichroic and a linear variable band pass, which are coated on only one substrate.

Applications

DELTA's optical filters are found in leading medical and bioscience products throughout the world.

- Fluorescence microscopy
- Flow cytometry
- Spectrometers
- Point of Care (PoC) instruments
- Analytical instruments
- Colour separation systems
- Optical coherence tomography
- Raman spectroscopy

Products offered

DELTA has a broad range of standard products, all available from our Filter Catalogue on the web.

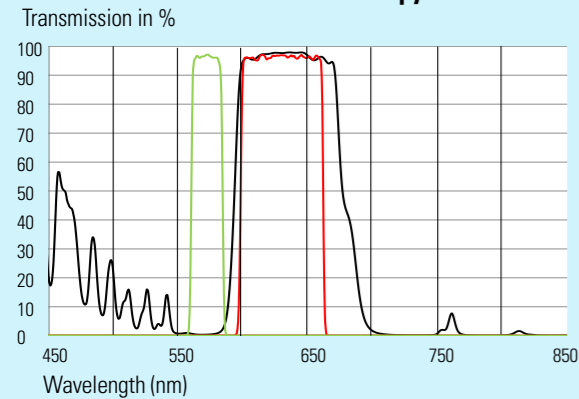
- TopPride™ fluorescence filter sets
- Fluorescence filter sets
- Bandpass filters
- Dichroic beam splitters
- AOI tolerant dichroic beam splitters
- Polarisation beamsplitters
- Edge filters
- Linear variable filters
- Multifunctional coatings

Point of Care instruments

These portable, hand-held instruments require detection sensitivity at least, or equivalent, to existing methods. This increases the demand for high quality optical filters, designed for miniaturised optical systems. DELTA's filters match these requirements perfectly.

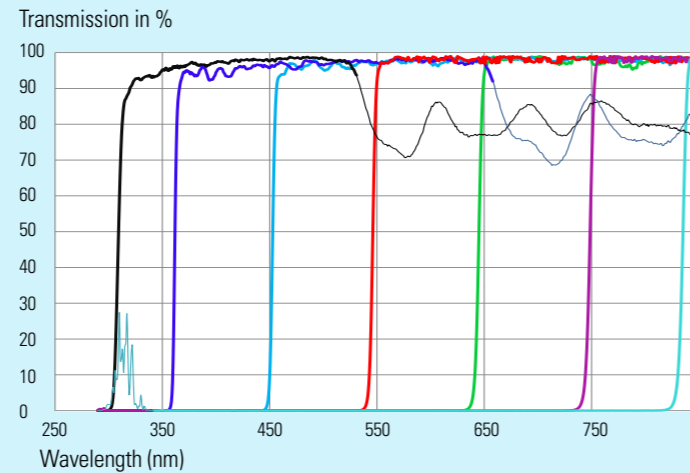
We have the expertise and manufacture technology necessary to get the optimal optical filter designed for your application.

Filter-set for fluorescence microscopy

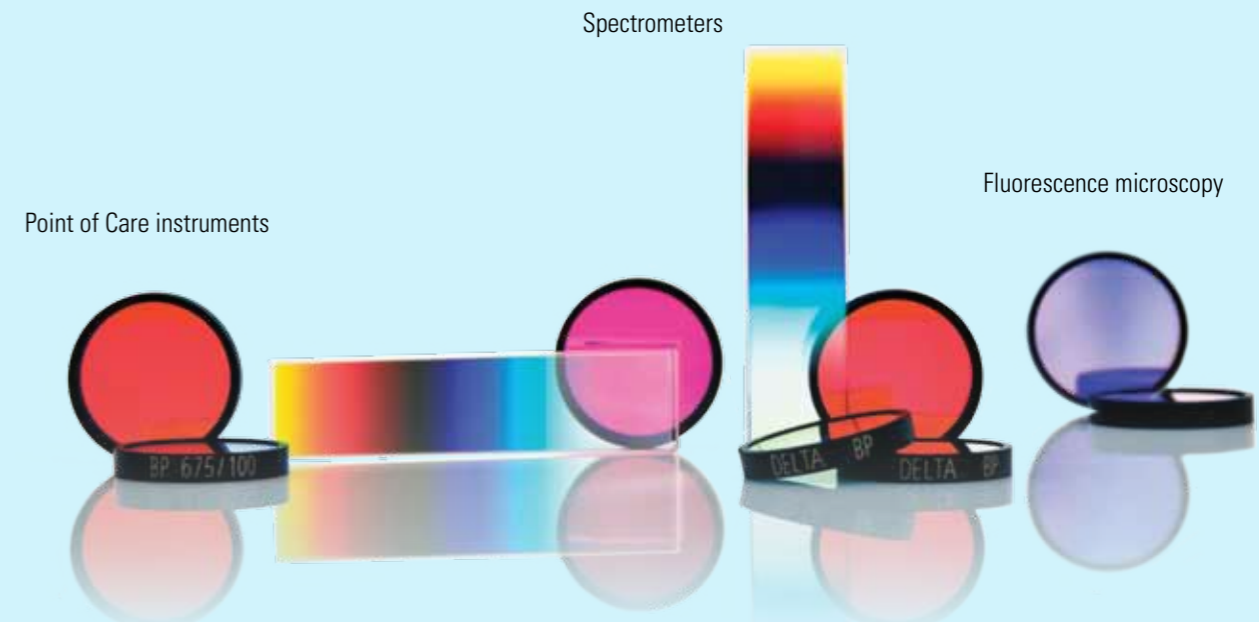


Measured transmission for a TopPride™ high quality fluorescence microscopy filter set for mRFP. All filters on single substrate without coloured glass.

Linear variable filter



Measured transmission at different positions in a long pass linear variable filter. All measurements made on the same single substrate without coloured glass.



About DELTA

DELTA Light & Optics is involved in designing, manufacturing and testing optical thin film components – primarily for the bioscience industry and is certified according to ISO 9001 and ISO 14001 by Bureau Veritas.



Located in Hørsholm, Denmark, DELTA has since the 1960s been the pioneer in computer designed optical coatings. In the early 90s, DELTA was among the first to implement computer controlled and automatic deposition of advanced optical coatings. We help the world's leading manufacturers of analytical and biomedical instruments to set new standards overall. DELTA is working with electronics, microelectronics, software technology, light, optics, acoustics, vibration and sensor systems.

Working with DELTA

Please visit filters.madebydelta.com for our standard optical filter product range or contact us for an informal talk about your requirements. DELTA's TopPride™ range of fluorescence filter sets represents the utmost in high transmission, steep edges and highly broadband blocking. Our products vary from custom designed solutions to a broad range of optical filters, filter sets, cubes, splitters and mirrors.

DELTA Light & Optics is also an original equipment manufacturer (OEM) supplier of optical sensors and instrumentation and operates a nationally accredited lighting laboratory.

For the past decades DELTA has supplied world leading OEMs with first class optical filters, both for development purposes and in production volumes. DELTA is more than just an optical filter supplier. Often we are involved in challenging the complete optical design, leading to a more robust and production friendly total solution. If you don't know your optical filter specifications, explain your measurement challenge, and DELTA will help your total solution to success.

DELTA

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