



Discover how we can improve your
instrumentation and supply chain
experience today!

KO | BRINGING QUALITY INTO FOCUS

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Dichroic colour filters for Fluorescence Microscopy and Spectroscopy

Need to measure the fluorescent properties of a component with your Spectrometer but you feel like something's missing?

Maybe it's **Knight Optical** range of [Stock Dichroic Filters](#), ideal for use within [Fluorescence Microscopy](#) and Spectroscopy.

For Fluorescence Microscopy and Spectroscopy, dichroic filters are used as beam splitters within the microscope system. They are used as an edge filter at a tilted angle of incidence (typically 45°) to direct the illumination of an excitation frequency towards the sample of interest, and then at an analyser to reject the same excitation frequency but passes a particular emission frequency.

Dichroic filters offer superior contrast between transmitted and reflected wavelengths; having negligible absorption. Having a dielectric coating they are perfect for high power applications and they do not show the strong fluorescence of certain glass filters.

We hold a massive inventory of [Bandpass](#), [Long pass](#), [Short pass](#), [Band-blocking](#) and [Colour-correction filters](#).

- Stock sizes of 12.5mm and 25mm diameter; and 50x50mm squares x 1mmthk.
- 425mmdia stock sheets are kept in stock for your specific requirements.
- Custom shapes and sizes at short notice, in most cases turned around within 1 week.
- Coated on Borofloat substrates for excessive thermal shock applications.
- Alternative thickness substrates available.

.Typical specs:

Material:	Borosilicate or equivalent, Sodalime
Diameter Tolerance:	+0.0/-0.20 mm
Length/Width Tolerance:	+/- 0.25mm
Thickness Tolerance:	+/-0.20mm
Wavelength Range:	300nm-1200nm dependant on type
Wavelength Accuracy:	+/- 5nm
Transmission:	Tmax=95% dependant on type and substrate

All our Dichroic Filters are fully inspected on their quality in our ISO 9001 certified, state-of-the-art Metrology laboratory, using our Varian Cary 5000 spectrophotometers which are fitted with a UMA. This allows us to work to the highest [QA standards](#) and meet the tolerance specifications on these **precision components**.

[Contact our technical sales team](#) to discover how Knight Optical's high quality Dichroic Filters and superior service can improve your instrumentation and supply chain experience.

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- Watch our [Corporate Video](#)
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