



www.knighthoptical.com | Tel: +1 401 583 7846 | Fax: +1 401 583 7851
Knight Optical (USA) LLC | 1130 Ten Rod Road, Suite D102 | North Kingsdown RI 02852 USA
www.knighthoptical.com | Tel: +44 (0) 1622 859444 | Fax +44 (0) 1622 859555
Knight Optical (UK) Ltd | Roebuck Business Park | Harrietsham | Kent ME17 1SB UK

KO | BRINGING QUALITY INTO FOCUS

Dichroic Bandblocking Filters for use in Fluorescence Microscopy

Knight Optical can offer [dichroic bandblocking filters](#) for use in Fluorescence Microscopy.

We supply a range of dichroic bandblocking filters for a range of applications. All individually QA checked and metrology tested for quality to ensure parts meet customer specification. Supplied in a range of sizes and shapes with custom coatings tailored to meet your individual applications.

Knight Optical supply precision optical components to customers in fluorescence microscopy. Dichroic bandblocking filters are used to block a specific wavelength band and transmit the rest. Our Dichroic bandblocking filters are usually made for bands between 300-1200nm. Our dichroic filters are usually specced for a 0° AOI. Use at a 45° results in a CWL shift of around 35-50nm.

They are used as beamsplitters in fluorescence microscopy to transmitting an excitation frequency to a sample and reflecting the emission. Some LCD projectors use dichroic filters instead of prisms to split white light three colours before passing it through the three LCD units.

Typical specs:

Material:	Borosilicate
Dimensional Tolerances:	±0.1mm
Wavelength Range:	CWL between 300-1200nm
Wavelength Accuracy:	± 5nm
Peak Transmission:	> 95% out of band
FWHM:	Dependant on type
Surface quality:	< 40/20

All our dichroic bandblocking filters are fully inspected on their quality in our ISO 9001 certified, state-of-the-art Metrology laboratory, using our Cary 5000 spectrophotometer. 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 bandblocking filters and superior service can improve your instrumentation and supply chain experience.

UK, Europe, Asia & RoW: E-Mail info@knighthoptical.co.uk Tel +44 (0)1622 859444

USA & Canada: E-Mail usasales@knighthoptical.com Tel +001 401-583-7846

- [View our QA and metrology information](#)
- [Watch our Corporate Video](#)
- [View Our Corporate Brochure](#)
- [Request a catalogue](#)