



www.knightoptical.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.knightoptical.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 Colour Filters for IPL Applications

Unwanted hair, be gone!

Knight Optical offer a range of [Stock Dichroic Filters](#), for use within [IPL Applications](#).

Intense Pulsed Light filters are essential to IPL applicators as they are used to filter out the UV wavelength range; and transmit between 400-1200nm for use within cosmetic lasers that are designed to remove unwanted hair, vascular treatment and even acne treatment.

These IPL Filters are often stacked between [sapphire windows](#) within the IPL applicator to offer a more defined wavelength spectrum when in use.

Dichroic filters consist of thin film dielectric coatings on glass, and are designed to offer high transmission over a specific wavelength while reflecting all other wavelengths, having negligible absorption. The dielectric coating is perfect for high power applications, and does 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.
- 425mm dia 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.

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

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

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