



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

KO | BRINGING QUALITY INTO FOCUS

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

Knight Optical's Fresnel Lenses for Retinal Imaging

Knight Optical can offer you [Stock and Custom Fresnel Lenses](#), for use within Retinal Imaging in a range of materials such as PMMA Acrylic and Borosilicate.

Our Fresnel Lenses consist of a flat surface with interspace concentric steps whereby each step corresponds to the surface of a conventional lenses. PMMA Acrylic is a preferred material type used for retinal imaging Fresnel lenses. The Fresnel lenses are used as part of a system where its multi-focal length provide a multiple in and out of focus image that provide a magnified image of the human eye itself.

This **stock range of fresnel lenses range** from 5mm to 650mm aperture and contains both standard and precision ranges of fresnel lenses. The precision range has tighter tolerances with improved surface quality. These ranges are uncoated however **antireflective coatings** can be applied at short notice.

Typical specs: [Borosilicate](#)

Material:	PMMA Acrylic/
Center thickness:	+/- 0.2mm
Clear aperture:	Nominal
Focal length:	
Standard range	± 5%
Precision range	± 2% typically (± 5% manufacturing data)
Design condition:	Parallel light on grooved side

Options available:

- Cutting down of stock lenses to custom sizes.
- Antireflective coatings
- Other focal lengths and aperture sizes available at short notice.

All our Fresnel Lenses are fully inspected on their quality in our ISO 9001 certified, state-of-the-art [Metrology laboratory](#), using our Starrett AV300 video microscope for high accurate diameter testing. 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 Fresnel Lenses 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](#)

