



www.knightrightoptical.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.knightrightoptical.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

Barium Fluoride Optics for Medical Imaging

Knight Optical can offer [Barium Fluoride Optics](#) for use within Medical Imaging.

We supply a range of Barium Fluoride Optics 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 the medical industry for applications such as medical thermology and thermography. Barium fluoride optics are used in the detection and screening of breast cancer and for screening for atypical pneumonia (SARS) and monitoring respiratory conditions.

Due to barium fluoride's high radiation resistance, it is ideal for use in high radiation (x-ray/gamma rays) environments. Other applications include cryogenically cooled thermal imaging systems, infrared spectroscopy and high energy neutron detection.

Typical specs:

Material:	Barium Fluoride (BaF ₂)
Shape:	Spherical Lenses, Aspheric Lenses, Windows, Prisms
Dimensional Tolerances:	+/- 0.1mm
Centering:	< 3 arcminutes
Surface Quality:	< 60-40 Scratch/Dig < 5(1) @ 633nm
Coating:	Antireflective coatings for application bandwidth (if required)

All our Barium Fluoride Optics are fully inspected on their quality in our ISO 9001 certified, state-of-the-art Metrology laboratory, using our Zygo Verifire Interferometer and Trioptics OptiSpheric/OptiCentric and Trioptics PrismMaster. 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 Barium Fluoride Optics and superior service can improve your instrumentation and supply chain experience.

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

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

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