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KO | BRINGING QUALITY INTO FOCUS

L/10 Mirrors for Imaging

Knight Optical can offer you stock and custom lambda/10 mirrors for use in imaging applications, in a range of materials such as BK7 or equivalent, Zerodur, Quartz, UV Fused Silica and many more.

Mirrors are made from low expansion glass for optimum stability to maintain the lambda/10 flatness. The mirrors help produce high quality images and can be coated with a variety of coatings to ensure that the perfect quality image in the wavelength you require is achieved:

- Enhanced aluminium 94%R for visible applications.
- 99.9% dielectric for laser use in visible applications.
- UV aluminium for UV applications down to 180nm.
- 98.5% dielectric for laser use in the NIR applications.
- Ion plated silver for NIR-2000nm applications.
- Protected gold for 750nm to far infra-red applications

Lambda/10 mirrors are used to produce a better quality signal from the mirror, resulting in a higher quality imaging.

Knight Optical can provide lambda/10 mirrors on a convex, concave and plano surface either from stock or custom. Send over the details of your requirement and we can see how we can help.

Typical specs for Plane lambda/10 stock items held:

Material:	N-BK7 (or equivalent), Zerodur, UV Fused Silica, Borosilicate
Shape:	Circular, Square or rectangular
Dimensional Tolerances:	+/- 0.5mm
Parallelism:	< 3 arcminutes
Surface Quality:	<10-5 Scratch/Dig
Flatness:	$\lambda/10$ or $\lambda/20$ over 90% of mirror aperture (Rear is commercial polish)
Coating:	A range of mirror coatings to suit your wavelength

All our lambda/10 mirrors are checked for quality in our state-of-the-art Metrology laboratory using our Fisba Interferometer, Starret AV300 Video Imaging Device and Zygo Verifire XPZ Interferometer System, allowing 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 L/10 Mirrors and superior service can improve your instrumentation and supply chain experience.

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- [View our QA and metrology information](#)
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