



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

KO | BRINGING QUALITY INTO FOCUS

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Knight Optical's range of Custom Laser Mirrors

[Knight Optical](#) supply [custom laser mirrors](#) for use at specific laser lines from the UV (200 to 400nm) to the IR (1to 40µm) wavebands.

The laser mirrors can be custom made to include the following range:

- 1 YAG laser mirrors (High power grade)
- 2 Excimer laser mirrors (High power grade)
- 3 Argon-ion laser mirrors (High power grade)
- 4 Diode & broadband (Ti:Sapphire)

These mirrors are made from vacuum depositing thin films of material that have differing refractive indices & thickness onto suitable substrates. Typical custom laser mirror substrates are calcium fluoride, germanium, sapphire, fused silica and Zinc Selenide which produce a high efficiency reflecting surface at the laser wavelength. The coatings are assembled assuming that the mirror will be working in the plane of incidence. This is essential as any off-axis angles will push the pass band toward the shorter waveband that could be beyond the pass band for one or both polarizations (s and p). If off-axis reflections are needed, such as at 90°, then this coating needs to be applied for an Angle of Incidence (AOI) of 45°.

Custom capabilities:

Thickness:	2mm to 10mm+
Parallelism:	< 3 arcseconds
Surface form:	< 0.1 fringes
Surface quality:	< 10:5 Peak reflectivity: > 99.8%
Material options:	Fused silica, BK7 or equivalent
Coating options:	Argon-Ion, Eximer, Nd:YAG, Diode Laser
View PDF	Capability - Laser Mirror

All our Flat Mirrors are fully inspected on their quality in our ISO 9001 certified, state-of-the-art Metrology laboratory. 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 Plane Mirrors and superior service can improve your instrumentation and supply chain experience.

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