Laser Mirror Capabilities

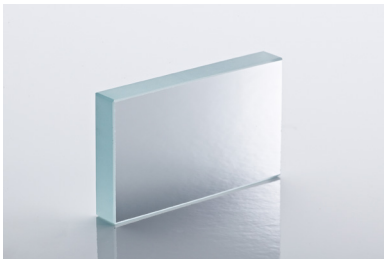
KNIGHT OPTICAL

Knight Optical's range of laser mirrors comprises of four options:

- YAG at high power
- Excimer at high power
- Argon-ion at high power
- Diode and broadband.

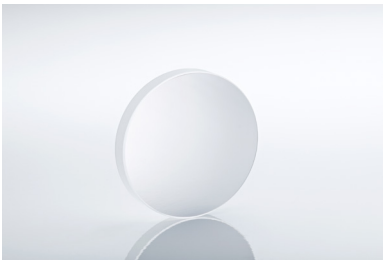
Produced from thin films of material with differing refractive indices and thicknesses, these mirrors are layered on a substrate, such as calcium fluoride, and provide a high efficiency reflecting surface at the laser wavelength.

Coatings are assembled in a fashion assuming that the mirror will be working in the plane of incidence. This assembly is essential as off-axis angles will push the passband toward the shorter waveband — this could be beyond the passband for one or both polarizations (S and P). If off-axis reflections are required, this coating needs to be applied for an angle of incidence (AOI) of 45°.



Custom Capabilities

Dimensions	5mm to 100mm+
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, Excimer, Nd:YAG and Diode



Tested to the highest standards in our state-of-the-art metrology laboratory by a team of highly trained technicians, all Knight Optical's products undergo the company's meticulous quality assurance process before dispatch to check for surface imperfections and ensure a crystal-clear finish to meet the high quality expected from our customers. Individually inspected and tested, our metrology and quality assurance departments ensure a premium procedure is undertaken with every optic dispatched from our headquarters.

For more information on any of our optical services, to discuss your requirements or place a direct order with one of our technical sales team, please contact Knight Optical by Email: info@knightoptical.com or call direct on +44 1622 859 444 (UK, EUR or ROW) +1 401 583 7846 (USA & Canada).