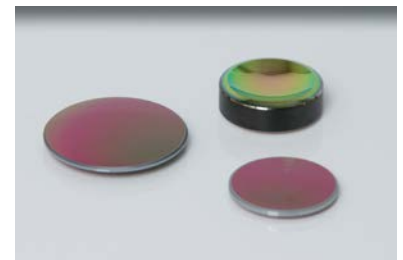
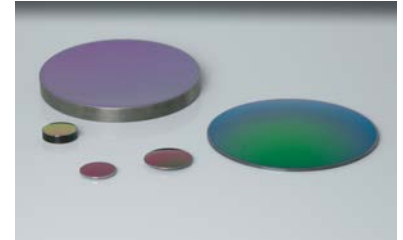


Infrared Lens Capabilities

Knight Optical's most frequently requested specifications for infrared lenses are as follows:

| | |
|--------------------------------|--|
| Lens Types | Diamond Turned Aspheric, Meniscus, Spherical |
| Focal Length | up-to 5000 ± 0.1mm or 1% of focal length |
| Back Focal Length | up-to 5000 ± 0.1mm or 1% of focal length |
| Radius of Curvature | up-to 5000 ± 1 fringe across surface |
| Form Error | 0.2 fringe from test sphere |
| Centration (arc second) | less than 60 |
| Centre Thickness | up-to 100 ± 0.1mm |
| Edge Thickness | minimum 1mm or 1% of centre thickness |
| Length of Aperture | up-to 300 ± 0.1mm |
| Width of Aperture | up-to 300 ± 0.1mm |
| Diameter | 300 ± 0.1mm |
| Clear Aperture | 90% of diameter |
| Edge Finish | blacked, ground |
| Chamfer | 0.3x0.3@45° |
| Surface Quality | better than 40-20 scratch/dig |
| Coatings | BBAR coating @1-14µm Diamond-Like carbon (DLC) coating @ 1-14µm |
| Material | Barium Fluoride, Calcium Fluoride, Z-Cut Quartz, Silicon, Germanium, Sapphire, AMTIR, Calcite, Caesium Iodide, Gallium Arsenide, KRS5, Sodium Chloride, Lithium Fluoride, Magnesium Fluoride, Potassium Bromide, Zinc Selenide, Zinc Sulphide, Yttrium Aluminium Garnet. |



Our capabilities are always expanding so if your requirement is not mentioned above please enquire as we have many years of experience in this field.

To keep up with the latest scientific developments, we guarantee that our in-house Metrology and Quality Assurance departments will not only deliver premium, individually inspected and tested optical components to your business, but should there be a need, can deliver bespoke optics designed to your exact specifications.

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).