

Rod and cone lenses

Rod lenses are a variant of cylindrical lenses used to focus incident light into a line. The outside faces of the lens are typically ground and the outside diameter polished. These lenses are often used for generating line images from circular laser beams.

Cone lenses are rod lenses with a conical point, and are used by shining incident light along the long axis of the lens to create a circular illumination pattern. The diameter of these lenses are often ground to reduce stray light.



Knight optical offer custom rod and cone lenses in a range of sizes and materials to suit our customer's applications. Custom lenses may be AR coated for improved transmission.

Custom capabilities

Length	5mm to 100mm+
Diameter	2mm to 20mm+
Surface quality	<60:40
Cone angle	10° to 60°
Material	LEGB, UV fused silica, Schott BK7 or equivalent glass
Coating options	AR coated for UV, Vis or NIR
Mounting options	Mounted or unmounted

Notes

All products are tested in our state of the art metrology laboratory by our highly trained technicians to ensure compliance with the specification. Parts are then sent to our QA team to be cleaned and checked for surface imperfections before dispatch.

Please contact our technical sales team on (+44) 1622 849 444 to discuss your custom rod and cone lens requirements and discover how Knight Optical can help improve your supply chain experience. Alternatively, email us your requirements by clicking on the links below.