

Axicon lenses

Axicon lenses are a unique lens design where one surface is shaped conically and the other is plano.

Collimated light incident on the plano side will be expanded into a ring, or create a close estimation of a Bessel distribution dependent on positioning.

Axicon lenses are often used in telescope and ophthalmic applications including cor- neal surgery and optical coherence topography.

We offer custom axicon lenses in a range of sizes and qualities to suit customer's individual specifications. Lenses may be coated for UV, visible or NIR applications as required and dependant on the material used.



Custom capabilities

Diameter	3mm to 300mm+
Angle	0.5° to 20°
Surface quality	< 10:5
Surface form	< 0.1 fringes
Material options	Schott glass or equivalent, UVFS IR crystals including CaF2, Ge, Si
Coating options	AR coated for UV/Vis/NIR

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 cus- tom axicon 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.