

Parabolic mirrors

Knight Optical offer custom parabolic mirrors for use from the UV(200 to 400nm) to the IR (1to 40µm) wave- bands.

Parabolic mirrors are typically designed as a segment of a larger parabola, manufactured from a metal substrate such as aluminium and coated in either enhanced aluminum, silver or gold as standard. These mirrors focus light similar to a concave mirror with the significant exception being that the off-axis parabolic design redirects the incident light through 90%.



Custom mirrors may be manufactured in a range of substrates and alternative coatings as required by our customer's specifications including UV and IR coatings and materials and alternative reflection angles.

Custom capabilities

Diameter	5mm to 300mm+
Focal length	5mm to 300mm+
Reflection angle	5° to 90°+
Substrate	Aluminium, brass, copper, stainless steel, nickel
Coating options	Enh. aluminium, UV aluminium Ion plated silver, gold, dielectric
Mounting options	Mounted or unmounted
Surface quality	< 10(5)
Surface form	< 1/10th wave

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 parabolic mirror requirements and discover how Knight Optical can help improve your supply chain experience. Alternatively, email us your requirements by clicking on the links below.