

Crystal polarisers

We supply Crystal polarizers for use in the UV, visual, and NIR wavebands (<0.2 to >2.3 μ m). Crystal polarizers consists of two prisms made from crystal quartz or calcite that have hypotenuses cemented together to form a polarizing prism. The polarizer has two output ports for both ordinary and extraordinary beams and the extent of the angular deviation beams is dictated by the prism type.



Crystal polarizers typically come in 4 variations; Wollaston, Glan-Taylor, Glan-Thompson and Rochon types, each with individual polarizing characteristics. We offer custom crystal polarizers in a range of sizes to suit individual applications. Information on polarizer types may be found on our website.

Custom capabilities

Available types	Wollaston, Glan-Taylor, Glan-Thompson, Rochon
Dimensions	10mm to 50mm+
Extinction ratio*	1:20,000
Mounting options	Mounted or unmounted
Wavelength range	350-2800nm
Wavefront distortion	1/4 waves @ 633nm
Damage threshold	> 200MW/cm ²
Scratch/dig	< 10:5

Notes:*Dependant on polarizer type

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