

## KO | BRINGING QUALITY INTO FOCUS

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### Prisms for Binoculars and Periscopes

Binoculars and Periscopes invert an image to make an object appear closer. There are two types of prisms that can be used for binoculars: [Porro and Roof Prisms](#). Porro prisms are used in a pair to create an optical path. The image would pass through the first prism and which then inverts the image, the second prism then flips the image, so it is making the distant object appear closer.

Roof prisms work in a similar fashion however are one prism and this design performs in the same way. Used particularly for smaller compact spaces as there are aligned in one piece to its objective lenses.

Knight Optical's [Porro and Roof Prisms](#) are available from stock, manufactured from high quality BK-7 or equivalent. They are also available to custom specifications with our capabilities for the two types:

- General Dimensions: 5mm to 300mm+
- Angular tolerance: <3arcseconds
- Surface form: <1/10<sup>th</sup> wave @ 633nm
- Surface quality: 10:5
- Coating options: AR or Mirror

All our prisms are fully inspected on their quality in our ISO 9001:2015 certified, state-of-the-art Metrology laboratory, using our TriOptics PrismMaster for angle accuracy of +/- 3 arcseconds and our Starrett AV300 Video Imaging Device . This allows us to work to the highest [QA standards](#) and meet the tolerance specifications on these precision components.

[Contact our technical sales team](#) to discover how Knight Optical's high quality prisms bring quality into focus.

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