

KO | BRINGING QUALITY INTO FOCUS

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Polarizers for Insect Vision Research

Knight Optical offer a range of [Stock Polarisers](#) that can be used in the study of insect vision.

Insects exhibit sensitivity to linear polarised light. Insects polarise light in their vision for a number of reasons such as reducing glare and to increase contrast. This is also widespread practice in most modern cameras to help ensure the resulting image is as sharp as possible.

Additionally, recently the study of insect vision has allowed researchers to modify camera systems incorporated in aerial drones to help fly independently through dense forests by assessing light intensity to avoid other objects.

Knight Optical works with many leading research institutions in the field of insect vision. Knight Optical also keep stock a [UV and NIR](#) range of sheet polarisers. In particular our HNP'B replacement UV polariser which has excellent performance from 250-750nm is utilised heavily within the research of arthropod vision.

These Linear Polarisers are available with single-sheet transmissions in the range of 22-44% and in a range of sizes.

Typical specs for our stock Polarisers (custom capabilities available upon request):

Material:	HNP'B Replacement
Diameter Tolerance:	+0.0/-0.25mm
Length/width Tolerance:	±0.5mm (<100mm) ±1mm (100-400mm), nominal (>400mm)
Axis direction:	±2°

Non- glare coatings available on our circular polarisers with the option of left or right-handed polarisation. We can also offer acrylic or glass laminations.

All our Polarisers are fully inspected on their quality in our ISO 9001:2015 certified, state-of-the-art Metrology laboratory, with our Cary FTIR and Starrett AV300. 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 N-BK7 Windows and superior service can improve your instrumentation and supply chain experience.

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