

## KO | BRINGING QUALITY INTO FOCUS

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### N-BK7 Windows for use in Thermal Imaging Cameras

**Knight Optical** offer a range of [Stock N-BK7 Precision Grade Windows](#), for use with Thermal Imaging Cameras.

Infrared radiation is characterised by the wavelengths ranging from 750nm to 1000µm. Although typically used for the visible range, N-BK7 does have transmission within the near infrared spectrum also. Where IR materials such as Germanium are limited to a small band in the IR spectrum, N-BK7 works well throughout the entire visible and into the NIR, making it a perfect material for a protective window for using within a Thermal Imaging Camera. A low cost material, it is perfect substrate for your protective window.

We can supply both stock and custom N-BK7 windows to protect your thermal imaging application. The high optical quality and uniform transmission of N-BK7 as well as low absorption in the entire visible wavelength range is a key feature for this application. Virtually free of bubbles and inclusions as well as being very clear and almost colourless in appearance allows windows in this material to act in both a protective position as well as to seal the enclosure to protect the inside components of the system.

**We hold a large inventory of N-BK7 Windows.**

- Stock sizes from 10mm to 75mm diameter as well as square and rectangular shapes.
- Custom sizes available on quotation.
- Different coating options to suit your needs

#### Typical specs:

<b>Material:</b>	<a href="#">N-BK7 or Equivalent</a>
<b>Diameter Tolerance:</b>	+0.0/-0.15mm
<b>Length/Width Tolerance:</b>	±0.1mm
<b>Thickness Tolerance:</b>	±0.1mm
<b>Flatness:</b>	>λ/4 over 90% aperture
<b>Surface Quality:</b>	<a href="#">&lt;40/20 Scratch/Dig</a>
<b>Parallelism:</b>	1 arc minute
<b>Coating:</b>	Windows with the suffix "AV2" are coated on both faces with our <a href="#">extended broadband multilayer antireflective coating &lt;0.5%@450-900nm</a>

**All our N-BK7 Windows are fully inspected on their quality in our ISO 9001:2015 certified, state-of-the-art Metrology laboratory**, with our Trioptics, Optispheric, Varian 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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