



Discover how we can improve your  
instrumentation and supply chain  
experience today!

## KO | BRINGING QUALITY INTO FOCUS

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### Germanium Windows - Thermal Imaging & Night Vision

Are you looking for a popular high refractive index and good IR transmission range material covering from 1.8-16 $\mu$ m? Here we are; Knight Optical's Germanium glass material is ideal for your IR applications with its broad transmission range and opacity in the visible portion of the spectrum.

Our Germanium windows are not only used in IR sensors, medical applications, and pyrometry; but also in [IR imaging systems](#), and thermographic cameras. Typically operating in the 2 $\mu$ m to 14 $\mu$ m spectral range; that covers the LWIR (8-12 $\mu$ m) and MWIR (3-5 $\mu$ m) thermal imaging wavelength range.

Our Germanium windows are available from stock, custom size and shape with Anti-Reflection coatings on one or both sides, and/or with Hard Carbon Diamond coatings.

Custom coatings for Germanium windows available on you request and to your specific requirement with diameters up to 300mm diameters.

#### Typical specs:

<b>Material:</b>	Germanium
<b>Diameter Tolerance:</b>	Up to 300mm +0, -0.02mm
<b>Thickness Tolerance:</b>	+/- 0.2mm
<b>Flatness:</b>	< 2 waves over 90% aperture
<b>Surface Quality:</b>	< 40-20 scratch/dig
<b>Parallelism:</b>	5 arcmin
<b>Coating:</b>	AR/DLC (Diamond like coating @ 7-14 micron)

**Our Germanium optics are checked for quality in our state-of-the-art** Metrology laboratory using equipment from Trioptics, Varian and Starret allowing 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 Dichroic Filters and superior service can improve your instrumentation and supply chain experience.

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