

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



Germanium Windows for CCTV

Knight Optical can offer you the solution for your CCTV Cameras! CCTV Systems use Germanium Windows for their properties which make them ideal for thermal imaging and night vision use.

[Germanium Material](#) offers excellent transmission across the IR wavelength range. Making it ideal for use within Thermal Imaging Cameras; which are used extensively in [CCTV applications](#).

Germanium typically operates in the 2 μ m to 14 μ m spectral range; that covers the LWIR (8-12 μ m) and MWIR (3-5 μ 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:

Material:	Germanium
Diameter Tolerance:	Up to 300mm +0, -0.02mm
Thickness Tolerance:	+/- 0.2mm
Flatness:	< 2 waves over 90% aperture
Surface Quality:	< 40-20 scratch/dig
Parallelism:	5 arcmin
Coating:	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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- View our [QA and metrology information](#)
- Watch our [Corporate Video](#)[Request a catalogue](#)

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