



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

KO | BRINGING QUALITY INTO FOCUS

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Knight Optical's Wafers for substrates for IR Cut Off Filters

When it comes to a high quality IR Cut filter, it is the substrate with the coating applied that affects the performance. Knight Optical provide high quality wafers for precisely this, and the surface quality of our substrates eliminates blotching at the sensor which occurs on lower quality substrates especially where IR Cut filters are concerned.

Our [stock](#) wafers are produced as thin as 500µm and provide exceptional surface quality. However, we can manufacture to a fully customised specification with a wafer thickness as little as 10 µm. Our substrates for stock or custom can be manufactured from a great deal of materials including:

- ✓ Quartz
- ✓ Borosilicate
- ✓ BK7 or equivalent
- ✓ Sapphire
- ✓ And many more.

Depending on your application for the IR Cut Filter, we can help advise on the best achievable optic for your application. Our technical sales team are highly experienced with regards to IR Cut filters and know exactly how we can help with eradicating IR saturation at your sensor. Why not [drop us line](#) to see how we can help you.

- Typical specs

Material:	Borosilicate or equivalent
Diameter:	+0.0 / -0.20 mm
Length / width:	± 0.20 mm
Thickness:	± 0.20 mm
Surface quality:	<60:40 scratch/dig
Transmission:	Tavg>94% 420-620nm
Blocking:	Tmax<2% 700-1000nm
Wavelength accuracy:	+/-10nm
Coating:	
Front surface	Hot mirror coated
Rear Surface	AR coated

All our wafers are fully inspected on their quality in our ISO 9001:2015 certified, state-of-the-art Metrology laboratory, using our Starrett AV300 Video Imaging Device for dimensions. 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 wafers bring quality into focus.

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- View our [QA and metrology information](#)
- Watch our [Corporate Video](#)
- [View Our Corporate Brochure](#)
- [View Our and Request our Catalogue](#)