



www.knighthoptical.com | Tel: +1 401 583 7846 | Fax: +1 401 583 7851
Knight Optical (USA) LLC | 1130 Ten Rod Road, Suite D102 | North Kingsdown RI 02852 USA
www.knighthoptical.com | Tel: +44 (0) 1622 859444 | Fax +44 (0) 1622 859555
Knight Optical (UK) Ltd | Roebuck Business Park | Harrietsham | Kent ME17 1SB UK

KO | BRINGING QUALITY INTO FOCUS

Custom IR-cut Filters for use in Heat Shielding

Knight Optical can offer [IR-cut filters](#) for use in Heat Shielding.

We supply a range of Custom and Stock IR-cut filters for a range of applications. All individually QA checked and metrology tested for quality to ensure parts meet customer specification. Supplied in a range of sizes and shapes with custom coatings tailored to meet your individual applications.

Knight Optical supply precision optical components to customers with Heat Shielding requirements. Our IR-cut filters allow good transmission levels of visible light but cut off IR and UV radiation. Our precision grade filters have an AR coating to increase their visible transmission.

In many systems that require heat shielding while still needing visibility an IR-cut filter can be used. These can attenuate infrared radiation and allow through visible light, allows your temperature sensitive equipment to be used in more environments. They are also often used for systems that have high sensitivity to NIR light, such as camera sensors. As such these are often used in ANPR/ALPR and CCD or CMOS systems.

Typical specs:

Material:	Borosilicate
Dimensional Tolerances:	±0.2
Transmission:	Tavg>90% 420-620nm (Standard Grade)
Transmission:	Tavg>94% 420-620nm (Standard Grade)
Blocking:	Tmax<2% 700-1000nm
Wavelength Accuracy:	±10nm
Surface Accuracy:	60/40 (Standard Grade) 40/20 (Precision Grade)
Surface Quality:	60/40 (Standard Grade) 40/20 or 20/10 (Precision Grade)

All our infra-red interference gas band filters are fully inspected on their quality in our ISO 9001 certified, state-of-the-art Metrology laboratory, using our Cary 5000 spectrophotometer. 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 infra-red interference Gas Band filters and superior service can improve your instrumentation and supply chain experience.

UK, Europe, Asia & RoW: E-Mail info@knighthoptical.co.uk Tel +44 (0)1622 859444

USA & Canada: E-Mail usasales@knighthoptical.com Tel +001 401-583-7846

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