



[www.knightoptical.com](http://www.knightoptical.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.knightoptical.com](http://www.knightoptical.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

### Hot Mirrors for use in Heat-Sensitive Systems

**Knight Optical** can offer [Hot Mirrors](#) for use in Heat-Sensitive Systems.

We supply a range of hot mirrors for a variety of applications – all individually QA checked and metrology tested for quality to ensure parts meet customers’ specifications. What’s more, our Hot Mirrors are 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 working with Heat-Sensitive Systems. Hot Mirrors are designed to transmit visible wavelengths and to reflect heat, causing infrared wavelengths.

Hot mirrors have a sharp cut-off between Infrared (IR) and visible because they have a dielectric coating that can be controlled for different AOIs (most commonly 0°). For systems that require heat shielding while still needing visibility, hot mirrors can be used. These can attenuate IR radiation and allow visible light, which permits your temperature-sensitive equipment to be visible.

Furthermore, Hot Mirrors can be used in photography, where some sensors are sensitive to IR wavelengths and in newer incandescent bulbs, increasing efficiency by redirecting IR frequencies back to the filament.

#### Typical specs:

<b>Material:</b>	Borosilicate
<b>Shape:</b>	<b>Circular Mirror, Square Mirror</b>
<b>Dimensional Tolerances:</b>	+/- 0.1mm
<b>Parallelism:</b>	< 5 arcminutes
<b>Surface Accuracy:</b>	< 5(2) @ 633nm
<b>Surface Quality:</b>	< 40-20 Scratch/Dig

**All our hot mirrors are fully inspected on their quality in our ISO 9001-certified, state-of-the-art Metrology laboratory**, using our Zygo Verifire Interferometer and 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 Hot Mirrors and superior service can improve your instrumentation and supply chain experience.

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

USA & Canada: E-Mail [usasales@knightoptical.com](mailto:usasales@knightoptical.com) Tel +001 401-583-7846

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