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KO | BRINGING QUALITY INTO FOCUS

Precision Grade Aspheric Lenses for Optical Systems

Knight Optical can offer [Precision Grade Aspheric Lenses](#) for use within Optical Systems.

We supply a range of Precision Grade Aspheric lenses for a range of applications – all individually QA checked and metrology tested for quality to ensure parts meet customer specification. What's more, our Precision Grade Aspheric Lenses 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 numerous customers with optical systems. Aspheric lenses are used to correct spherical aberrations and can be as effective as a multi-lens system while taking up less physical space; therefore, reducing weight and cost. As such, these lenses are often used in military applications, such as night-vision goggles or missile guidance systems

Typical specs:

| | |
|--------------------------------|---|
| Material: | N-BK7 (or equivalent), UV Fused Silica, SF11 (or equivalent) |
| Dimensional Tolerances: | +/- 0.1mm |
| Centering: | < 3 arcminutes |
| Surface Quality: | < 40-20 Scratch/Dig |
| Surface Figure: | < 5(1) @ 633nm |
| Coating: | Anti-Reflective (AR) coatings for application bandwidth (if required) |

All our Precision Grade Aspheric Lenses are fully inspected on their quality in our ISO 9001-certified, state-of-the-art Metrology laboratory, using our Zygo Verifire Interferometer and Trioptics OptiSpheric/OptiCentric. 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 Precision Grade Aspheric Lenses and superior service can improve your instrumentation and supply chain experience.

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- [View our QA and metrology information](#)
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