Moulded Plastic Aspheric Lenses for Military Application

Knight Optical can offer Custom Moulded Aspheric Lenses for use within Military Applications.

Aspheric Lenses are used to correct spherical aberration (where the converging light from a lens does not have a common focal point, resulting in a distorted image) in lasers and imaging. Traditional spherical lenses cannot collimate light effectively because even small angles of incidence can produce spherical aberrations.

This can mean that several components may be required to get the desired result. The non-spherical surface of an aspheric lens allows a single component to effectively focus or collimate even highly divergent emissions, potentially replacing a multi-lens system with a single aspheric lens.

Therefore Aspheric Lenses that are moulded are ideal for use within Gun Sights, Military Scopes and Range finding applications.

We offer QA Custom Moulded Aspheric Lenses for use within Military Applications they are ideal for use within Gun Sights, Military Scopes and Range finding applications

Typical specs:

- **Material:** Optical Glass or Acrylic
- **Overall Diameter Tolerance:** +/-0.2mm
- **Focal Length Tolerance:** ± <5%
- **Surface Quality:** <60-40 Scratch/Dig
- **Coating:** Optional

All our Moulded Aspheric Lenses are fully inspected on their quality in our ISO 9001 certified, state-of-the-art Metrology laboratory, using our Trioptics Optisphere, and Starrett AV300. 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 Aspheric Lenses and superior service can improve your instrumentation and supply chain experience.

UK, Europe, Asia & RoW: E-Mail info@knightoptical.co.uk  Tel +44 (0)1622 859444
USA & Canada: E-Mail usasales@knightoptical.com Tel +001 401-583-7846

- View our QA and metrology information
- Watch our Corporate Video
- View Our Corporate Brochure