Knight Optical supply custom and stock precision optical components for the latest autonomous vehicular LiDAR systems. These LiDAR systems which are integrated into motor vehicles are for adaptive cruise control, whereby the system can identify the distance of the vehicle in front and apply the breaks to slow or stop the vehicle automatically. Taking this idea forward, more recently LiDARs have been used in driverless cars. Whereby the system produce autonomous vehicles which can perform complex manoeuvres and drive in public with little or no input from a user.

**Front coated mirrors**
Optimized for maximum reflectivity at 1550nm or other ranges in the visible or NIR spectrum.

**Optical filters**
Stocked in a wide range of types and wavelengths or optimized for 1550nm.

**Lenses**
High precision, AR coated lenses in a range of materials suited for laser alignment and beam shaping in laser receiving and delivery optics.

**Cover windows**
Designed from tough materials able to withstand impact damage as well as scratches from high grit environments, these windows protect the vital components of the LiDAR system and can be AR coated for improved transmission over LiDAR wavelengths.

**Materials span the visible and NIR spectrum and include:**

- Sapphire
- Silicon
- BK7
- Quartz
- Fused Silica
- Toughened Borosilicate

Our state of the art Metrology and Quality Assurance department ensure that each component is individually inspected and tested to ensure it meets your exact specification.

For more information or to place an order contact our multilingual technical sales team and discover how Knight Optical’s high quality LiDAR optics and service can improve your instrumentation and supply chain experience.