Precision Optical Components for LiDAR Systems

Knight Optical supply custom and stock precision optical components for the latest LiDAR systems. Our components are utilised in topography and ranging instruments used in harsh environments with high grit and sand levels and extreme temperatures in arctic and desert climates.

LiDAR systems are used in monitoring wind speeds and directions on proposed and existing wind farm sites, and in systems used for topographical measurement, void and cavity surveys in the mining industry and many other survey equipment products.

- **Front Coated Mirrors**
  Coated for maximum reflectivity at specific laser wavelengths or ranges in the visible or NIR spectrums.

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

- **Custom Wedges**
  Custom wedge prisms for beam direction altering, offered in a range of visible and NIR materials including Silicon, with AR coatings at specified wavelengths or wavelength ranges.

- **Optical Filters**
  Stocked in a wide range of bandwidths and wavelengths, these filters isolate light wavelengths in the visible and NIR spectrums, with laser wavelengths available.

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

Contact our specialist technical advisors to discuss your specifications:

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