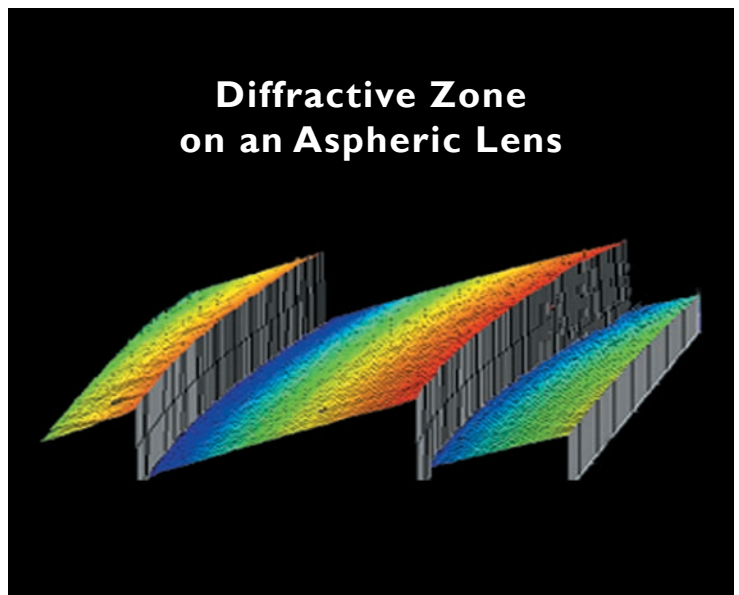


Aspheric Hybrid Optics

- Refractive-diffractive design
- Color corrects with a single element
- Diffraction limited performance
- Custom F/I and faster achromats available
- High performance, cost effective

In multi-wavelength or polychromatic applications, the change in focal length due to wavelength can compromise lens performance. For example, if the application requires minimum spot size, as is required in data storage or communications systems, the spot size will change with wavelength, which can degrade system performance. In imaging applications, an uncorrected lens results in a blurry image. A color-corrected lens is needed to minimize these effects.

LightPath's line of optical products for minimizing chromatic aberrations using only a single optical element. These new glass, molded aspheric-diffractive lenses, also called hybrid lenses, can be used over a range of wavelengths for many applications, such as endoscopes for medical and industrial applications, CCD cameras for imaging, as well as tunable lasers for communications products. Using LightPath's unique precision molded glass hybrid lenses, customers can now solve chromatic performance issues in a single glass lens, and reduce weight, volume and parts count at the same time.



Molded In Place (MIP) Lenses

LightPath's lenses can be molded directly into metallic holders, allowing the lenses to be welded or soldered into the package and eliminating the need to use epoxy. This can be an ideal solution for high volume automated assembly or in applications where strict outgassing requirements preclude the use of epoxy adhesives.



Anamorphic Optics

Most commercially available laser diodes project an elliptical beam due to the diode junction having a rectangular shape. This elliptical beam can create difficulties in many applications, such as laser to fiber coupling. LightPath's lens technology creates a simple solution to circularize and collimate many of the available laser diodes. By positioning the lens very close to the laser chip itself, these lenses provide a small circular and collimated beam, providing a very elegant and compact solution.