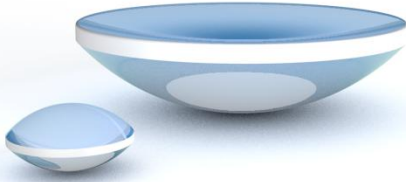


# Spherical Lenses



- Material from DUV to IR
- Custom dimension and shapes
- Diameter from 1 to 500 mm
- Clear aperture: Central 90% of diameter
- Irregularity:  $\lambda/20@632.8\text{nm}$
- Surface quality: 10-5 S/D
- Centration:  $<1'$
- Standard and custom coating options available
- High laser damage threshold

CASTECH offers an extensive line of spherical lenses, including Plano-Convex Lenses, Plano-Concave Lenses, Bi-Convex Lenses, Bi-Concave Lenses, Meniscus Lenses, Negative Meniscus Lenses as well as Achromatic Lenses.

CASTECH's precision spherical lenses are made from a wide variety of optical substrates such as Fused Silica, BK7, Calcium Fluoride( $\text{CaF}_2$ ), Magnesium Fluoride( $\text{MgF}_2$ ), Sapphire, Germanium (Ge), Silicon (Si), Zinc Selenide (ZnSe). Together with our multiple coating designs covering wavelength range of Ultraviolet (UV), visible, or Infrared (IR), we offer options that are ideal for use in various applications.

## Metrology



ZYGO Interferometric Radius Slide System(IRS, based on ZMI): measure radius of curvature with high accuracy  
Resolution: 10nm  
Accuracy: greater than  $3\mu\text{m}$  or 0.001%



Trioptics OptiSpheric for comprehensive testing of optomechanical parameters of lenses



ZYGO GPI-XP Interferometer  
measure power & irregularity(P-V)  
with  $\lambda/50$  accuracy



Trioptics Spherometer for radius of curvature measurement