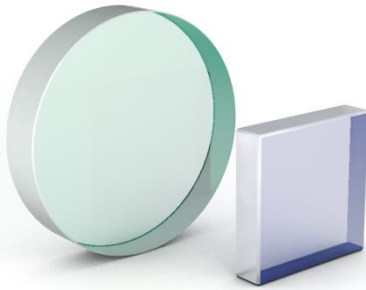


Optical Windows



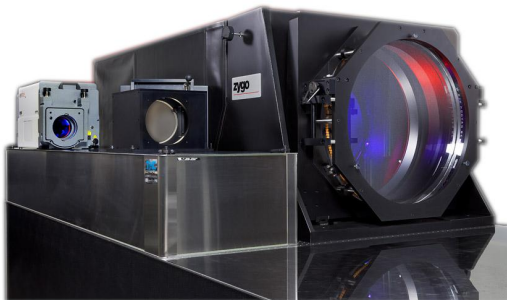
- Material from DUV to FIR
- Custom dimensions and shapes
- Diameter from 0.5 to 600 mm, rectangular up to 1000×600mm
- Clear aperture: Central 90% of diameter
- Flatness: PV $\lambda/40$ @632.8nm
- Surface quality: 10-5 S/D
- Parallelism: $<3''$
- Standard and custom AR coating options available
- High laser damage threshold

CASTECH offers windows either in substrates made from multitude of Optical glass, Fused Silica, Calcium Fluoride(CaF₂), Barium Fluoride(BaF₂), Germanium (Ge), Silicon (Si), Zinc Selenide (ZnSe) or coated parts with multiple anti-reflection coating options covering wavelength range of Ultraviolet (UV), visible, or Infrared (IR).

Millions of stock and custom precision windows are manufactured by different processing methods such as double-sided polishing, conventional polishing and ion beam figure (IBF) to guaranty high surface figure, low scatter, and high laser damage threshold to satisfy even the most demanding requirements.

Metrology

CASTECH equipped with state-of-the-art optical metrology, including ZYGO interferometer, ZYGO MAT interferometer, 4D interferometer, Taylor Hobson LupoScan 260, Microscope and so on to ensure consistent high-quality performance of optical windows for challenging applications of laser, thermal imaging, medical and spectroscopy.



ZYGO MST Interferometer for high accuracy (The measurement caliber can reach 600mm)
measurement of wave front & flatness & parallelism with $\lambda/50$ accuracy
Parallelism measure accuracy: 0.5''



4D Interferometer (FizCam 2000) for high accuracy measurement of flatness

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