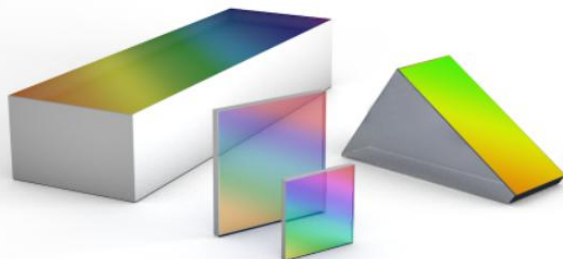


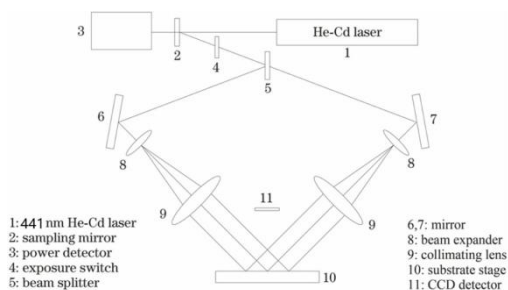
Diffraction Gratings for Telecommunication



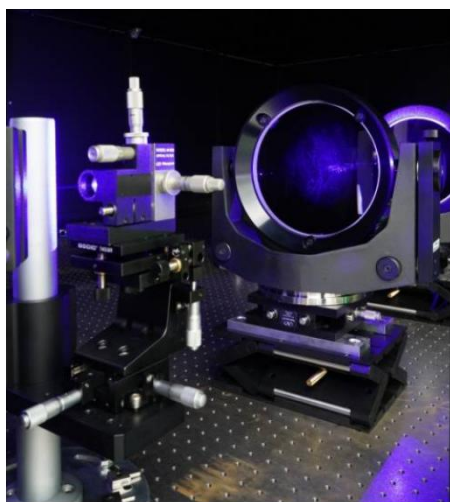
- Material from DUV to IR
- Custom dimension and shapes
- Wafer type: Plano or Prism
- Grating type: Transmission or reflection grating
- Line density: 940, 966.2, 1200, and even up to 3000line/mm
- Line density tolerance: ± 0.5 line/mm
- Wavelength range: 1525-1575nm
- Central wavelength: 1550 nm
- Angle of incidence(AOI): Littrow or Customized
- Optical polarization: TE/TM
- Diffraction efficiency: $>94.0\%$
- Clear aperture: $\geq 95\%$
- Wavefront distortion: $\lambda/4@632.8\text{nm}$
- Surface quality: 40-20 S/D
- Parallelism: $< 0.1^\circ$
- Coating: Au or Dielectric coatings

CASTECH typically employs fused silica or ULE characterized with low absorption and superior stability for the fabrication of gratings. Other optical glass are also available upon request.

Our high DE reflection and transmission grating is ideal for WSS and other applications in optical communication industry. Generated by our state-of-art projection photolithography, holographic and ion etching technology, the precise realization of grating designs enable gratings to provide high diffraction efficiency and perfect uniformity. Customized solution is available from prototype building to high volume production.



Kimmon He-Cd (Helium Cadmium) Laser



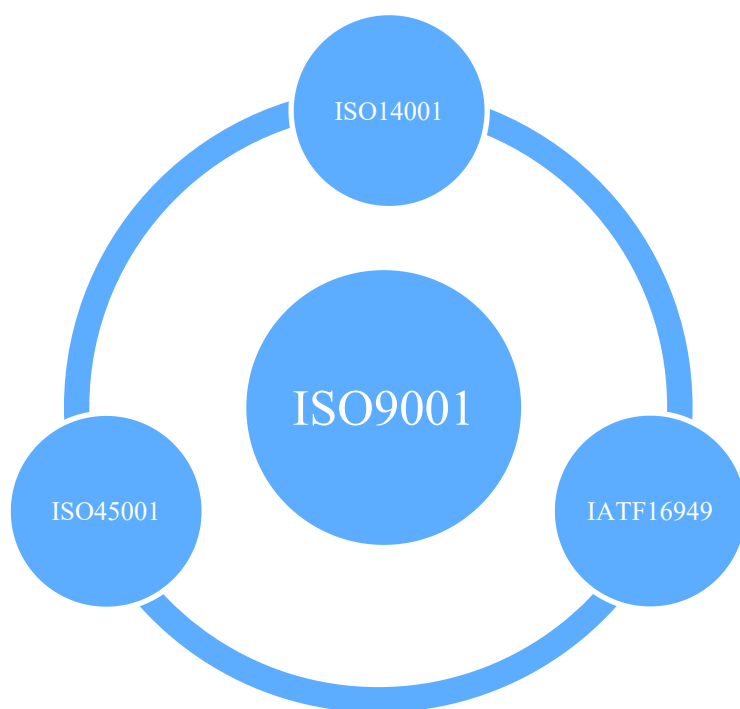
Holographic System



CASTECH[®]

福晶科技

- CASTECH was founded in 1990 by FIRSM (Fujian Institute of Research on the Structure of Matter, Chinese Academy of Sciences, a world famous institute on material research).
- A public company (2008, Shenzhen, China, Stock Code: 002222)
- Sales Revenue US\$80 Millions
- More than 1000 Employees
- 40,000 M² Facility
- Sales 50% China and 50% International



CASTECH is a pioneer and global leader in nonlinear optical crystals, laser crystals, precision optics and laser components for laser, optical communication, biomedical and LiDAR applications. Based on more than 30 years of worldwide known expertise and unique technologies of crystal growing, precision polishing and high LIDT coating, CASTECH has built a wide selection of high performance precision optics category and solutions including Aspherical/Spherical Lenses, Flats, Prisms, Waveplates, Gratings, polarization components, as well as featured products for most commanding applications like ultrafast lasers, to assist with our customers from prototype to mass production stage.