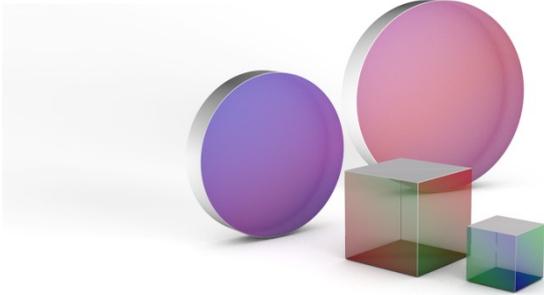


Polarizing Beamsplitters



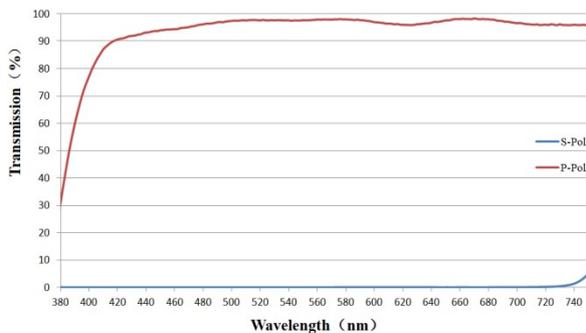
- Material from DUV to IR
- Custom dimension and shapes
- Diameter from 1 to 100 mm
- Clear aperture: Central 90% of diameter
- Wavefront distortion : $\lambda/4@632.8\text{nm}$
- Surface quality: 10-5 S/D
- Beam deviation : $<5'$
- Extinction ratio: $>1000:1$ for Cube
- Standard and custom beamsplitter coating options available
- High laser damage threshold

Polarizing Beamsplitters divide unpolarized beam into two orthogonal, linearly polarized parts. A wide variety of Polarizing Beamsplitters configurations are offered by CASTECH, including UV Laser Line Polarizing Beamsplitter Cubes, Laser Line Polarizing Beamsplitter Cubes, Broadband Polarizing Beamsplitter Cubes, Laser Line Polarizing Plate Beamsplitters, Broadband Polarizing Plate Beamsplitters. Coating is a critical portion of a high performance Polarizing Beamsplitters. CASTECH has extensive coating techniques and expertise of IBS, IAD, E-Beam & MS coating to suit high extinction ratio and high damage threshold needs.

High-energy Laser Line Polarizing Beamsplitter Cubes are constructed by optically contacting rather than cementing. With damage threshold up to 20 J/cm^2 , they are ideal for high power laser application.

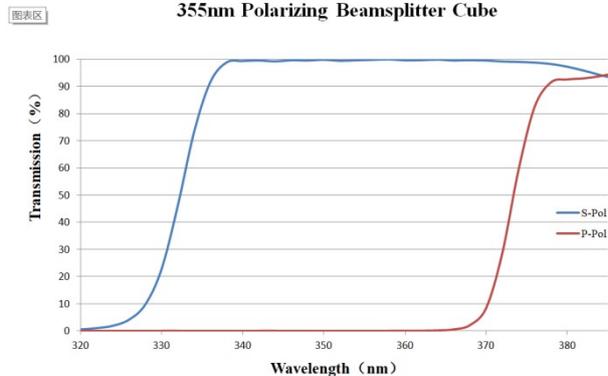
Metrology

VIS Polarizing Beamsplitter Cube



ZYGO Interferometer for wave front & parallelism Measurement
With $\lambda/50$ accuracy
Parallelism measure accuracy: $0.5''$

355nm Polarizing Beamsplitter Cube



Agilent Cary-7000 (2sets) for reflectivity testing ranging from 175-3300nm