

UV Laser Line Polarizing Cube Beamsplitters



- Extinction ratio >100:1
- Transmission >90%
- For use with fluences less than 0.1 J/cm²
- Low wavefront distortion

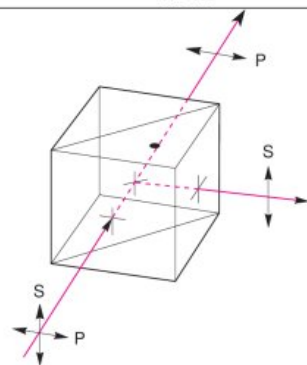
UV laser line polarizing cube beamsplitters provide efficient narrow-band polarization for moderate power UV lasers. Each polarizer consists of a pair of precision right-angle prisms carefully cemented together to minimize wavefront distortion.

Specifications

Material	UV grade fused silica
Wavefront Distortion	$\leq \lambda/4$ at 632.8 nm over the clear aperture
Clear Aperture	Central diameter, >80% of dimension
Surface Quality	20-10 scratch-dig
Efficiency	$T_p > 90\%$, $R_s > 99\%$
Extinction Ratio	$T_p/T_s > 100:1$
Transmitted Beam Deviation	≤ 5 arc min
Reflected Beam Deviation	$90^\circ \pm 5$ arc min
Angle of Incidence	$0^\circ \pm 3^\circ$
Dimensions Tolerance	± 0.25 mm
Antireflection Coating	M multilayer coating, $R < 0.25\%$ per surface
Temperature Range	-50°C to 80°C
Durability	M IL-M -13508C, M IL-C-675C, M IL-C-14806
Cleaning	Non-abrasive method, acetone or isopropyl alcohol on lens tissue recommended (see page 622) Cemented optic, do not immerse in a solvent
Damage Threshold	100 W/cm ² CW, 0.1 J/cm ² with 10 nsec pulses, typical

Ordering Information

Wavelength (nm)	Model Dimensions 12.7 mm	Model Dimensions 25.4 mm
248	05SC16PC.21	10SC16PC.21
266	05SC16PC.22	10SC16PC.22
308	05SC16PC.23	10SC16PC.23
351-355	05SC16PC.24	10SC16PC.24



NOTE: To avoid damage, beam must enter prism on the side marked with a dot.



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PO Series Tilt/Rotation Stage page 919

