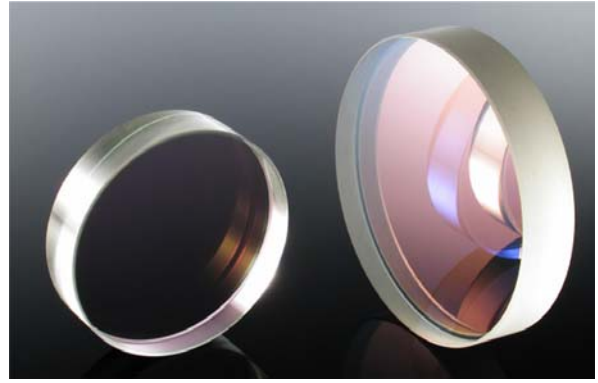


# Non-polarizing UV Beamsplitters

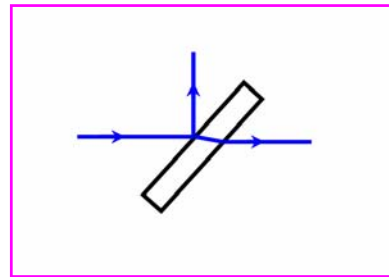
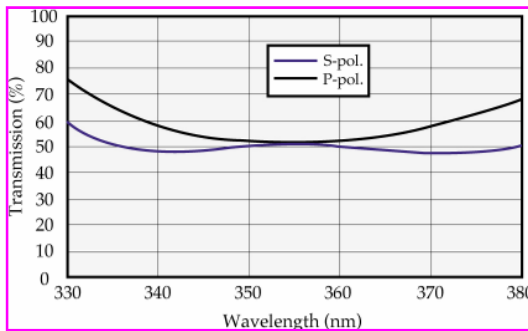


The natural tendency of optical surfaces to reflect s- and p- polarizations with different efficiencies can be a serious problem when working with lasers as the state of polarization can change as it passes through the optical system.

Wavelengths offered are 248, 266, 355 nm

Usual diameters are 25.4 and 50.8 mm but other sizes can be supplied.

These high power non-polarizing plate beamsplitters



eliminate the problem due to a special coating, which provides 50:50 transmission/reflection for all polarizations. Such coatings only work for one wavelength and angle of incidence, normally 45°.

Other split ratios are available on request.

Typical Specifications	
Substrate Material:	UVFS
Surface flatness:	$\lambda/10$ @ 633 nm
Surface quality:	10/5
Parallelism:	< 3 arcmin
Diameter:	+0.0 / -0.2 mm
Thickness:	+/- 0.25 mm
s-p :	< 10%
T & R:	50/50 +/- 7%
AR coating:	R < 0.25%
Clear aperture:	> 85% of diameter
Damage Threshold:	> 3J/cm <sup>2</sup> , 10 ns

The difference between s- and p- polarization will be within 10% .

**To request a quote or to order, please specify:**

Quantity — Diameter — Laser Type & Wavelength — Split Ratio (if not 50:50)

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For a quotation — please phone, fax or email us with details of your requirements.