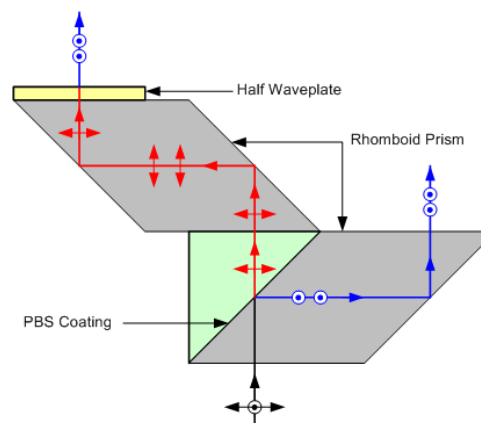
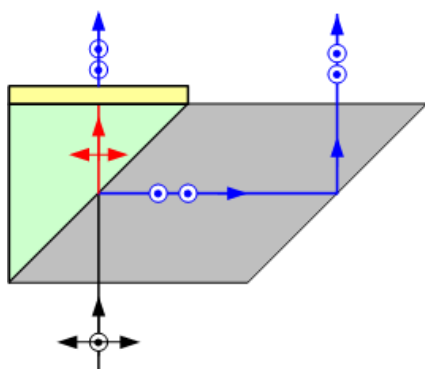
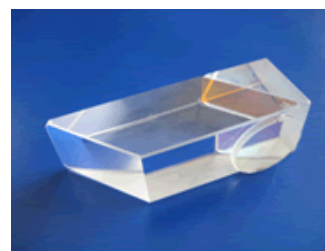


Lateral Displacement Polarization Beamsplitter

Lateral displacement polarization Beamsplitter produces two parallel output beams which are separated by a lateral displacement. And the displacement is decided by the size of rhomboid prism. This Beamsplitter consists of one or two rhomboid prisms cemented to a right angle prism, and sometimes we can add a waveplate to manage the polarization state of the output beams. By using high precision prisms, we can ensure the parallelism between input and output beams within 30 arc seconds. And all entrances feature a multi layer anti-reflection coating.

Features:

- Split incident beam into two displaced parallel beams
- Waveplate can be added to manage polarization state
- NOA61 cemented
- RoHS Compliant



Specifications:

Material	BK7
Dimension Tolerance	$\pm 0.2\text{mm}$
Transmitted Wavefront Distortion	$\lambda/4@632.8\text{nm}$
Retardation Tolerance(Waveplate)	$\lambda/300$
Beam Deviation(between input and two output beams)	Up to <30 arc seconds
Surface Quality	60/40 scratch and dig
Clear Aperture	$>90\%$ central area
PBS Coating	Extinction Ratio $>100:1$ for broadband Extinction Ratio $>500:1$ for single wavelength $T_p > 90\%$ and $T_s < 1\%$ $R_s > 99\%$ and $R_p < 5\%$
AR Coating	$R < 0.25\%$ @ central wavelength on all entrances