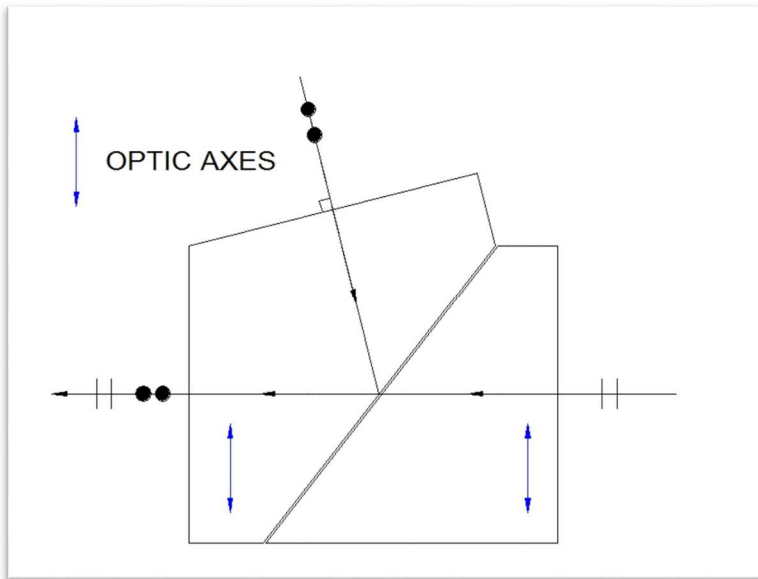


LEYSOP LTD

Manufacturers and suppliers of electro-optic components

Glan-Taylor Polarizing Beam Combiner



Air spaced design

High power handling

Wide transmission range

High extinction ratio

This special version of the Glan-Taylor polarizer is cut such that the rejected S-polarized light exits in a direction parallel to the side exit face normal. More importantly, beams entering or exiting at the side face suffer no refraction at the surface and hence there is no dispersion of the position of the beam in the polarizer. This makes it possible to use this design for combining beams of orthogonal polarization and across a range of wavelengths without losing collinearity of the combined beams.

Another advantage of the angled side exit face is that moving it away from the Z-axis of the crystal improves the surface quality and figure available compared to the conventional design. This is very useful when the wave-front quality

of side exit beam(s) is important.

In all other regards, the same performance features which make the Glan-Taylor polarizer one of the highest quality types available are true for this special version and for general specifications please see our conventional Glan-Taylor design.

A range of sizes comparable to our conventional Glan-Taylor polarizers is available but as the prism sizes are larger, there is a modest premium on the price for a given aperture. Please contact us for further information.