

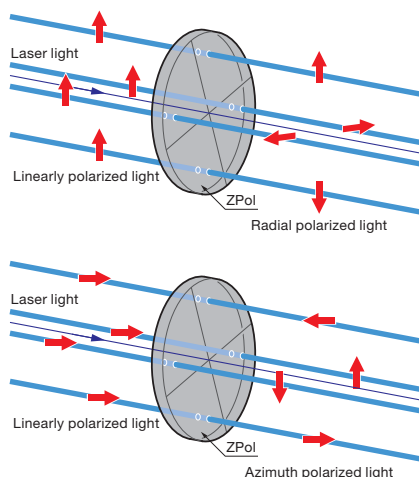


Z-Polarizer produces light polarization in the direction of its propagation. It enables you to obtain 3D measurement of molecules and crystal.

- Useful for various application such as laser scanning microscopy, tip-enhanced near-field microscopy, Raman microscopy, laser trapping, and laser processing.
- Z-polarizer is comprised of four-segment waveplate with the different orientation of the optical axis of each of the segmented waveplate so you can generate both radial polarization and azimuth polarization.
- In combination with condenser lens, Z-polarizer can produce a field of the light beam with a large electric field component in the z-direction (radial polarization). It can also produce azimuthal polarization by choice, a light collecting field that the z component of the electric field to zero.



Schematic



Specifications

Material	Synthetic fused silica, fused quartz or quartz (below 350nm)
Diameter	$\phi 25\text{mm}$
Clear aperture	$\phi 10\text{mm}$
Incident angle	0°
Selectable wavelength range	200 – 2000nm
Center wavelength tolerance	$\pm 4\%$ from center wavelength
Retardation tolerance	$\pm 0.05\lambda$ at center wavelength
Crystal axis tolerance	$\pm 2^\circ$

Guide

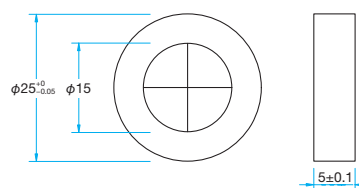
► If you need a mount to hold the Z-polarizer, please contact our Sales Division with your request.

Attention

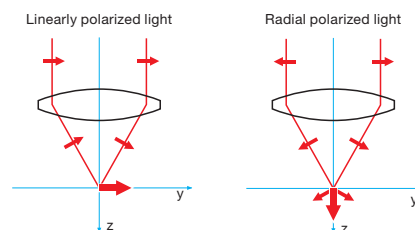
► The condenser lens is not included for the Z-polarizer.

Outline Drawing

(in mm)



Schematic of Z-vector generation



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Optics & Optical Coatings

Opto-Mechanics

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