

Photonik's Glan Laser Calcite Polarizer is a Glan Taylor polarizer that is specifically designed to deal with high energy laser light. These polarizers are manufactured from only select portions of the calcite crystal that pass a laser scattering sensitivity test. Like our Glan Taylor Prisms, these prisms are ideal for applications requiring extreme polarization purity(100,000:1), high damage threshold(500MW/cm²) and a broad wavelength range (250-2300nm). Two polished side exit ports are provided to allow bi-directional use of the prism polarizer. These side ports also ensure that the rejected light from high power lasers can safely exit the polarizer.

General Specifications:

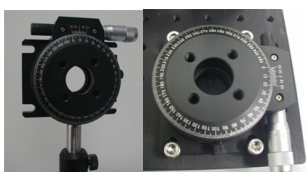
Material:	Calcite
Wavelength Range:	250 - 2300nm
Extinction Ratio:	100,000 : 1
Angular Field:	7.7°
Dimensions Tolerance:	± 0.1 mm
Surface Quality:	20 – 10 scratch and dig
Wavefront Distortion:	$\lambda/4$ @ 632.8nm over clear aperture
Beam Deviation:	< 3 arc minutes
Transmission Efficiency:	T _p > 95%
Optical Coating:	Single layer MgF ₂ (Input/Output surfaces)
Laser Damage Threshold:	500W/cm ² for CW Laser / 500MW/cm ² for pulsed laser @ 10ns

Photonik reserves the rights to change product designs and specifications at any time without notice.

Ordering Information: (Any request for other dimensions, wavelengths and coatings, pls contact us!)

P/N	Material	Wavelength Range (nm)	Outside Diameter ϕ_d (mm)	Clear Aperture ϕ_a (mm)	Length L (mm)
PGLC5008	Calcite	250 – 2300	25.4	8	24.5
PGLC5010	Calcite	250 – 2300	25.4	10	26.2
PGLC5015	Calcite	250 – 2300	30.0	15	33.3

Optional rotation stage parts compatible to PGLC polarizers (with included housing adaptor):



ϕ 1" Precision 360° Rotation Stage
P/N: PRM1S(1" Optics; Vertical/Horizontal Positioning)



ϕ 1" Simple 360° Rotation Stage
P/N: PRE1



ϕ 2" Simple 360° Rotation Stage
P/N: PRE2