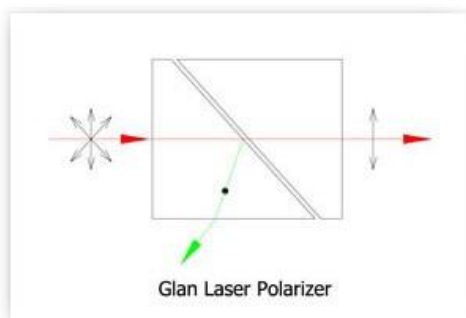


## Glan Laser Polarizers of Calcite, alpha BBO and YVO4

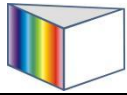
Glan Laser prism polarizer is made of two same birefringent material prisms that are assembled with an air space. The polarizer is a modification of the Glan Taylor type and is designed to have less reflection loss at the prism junction. The polarizer with two escape windows allow the rejected beam to escape out of the polarizer, which makes it more desirable for high energy lasers. The surface quality of these faces is relatively poor as compared to that of entrance and exit faces. No scratch dig surface quality specifications are assigned to these faces.

The stocked modules are available in Hangzhou Shalom EO in fast delivery and low cost.



### Features:

- Air-spaced
- Close to Brewster's Angle Cutting
- High Polarization Purity
- Short Length
- Wide Wavelength Range
- Suitable for medium power application



### 1. a-BBO Glan Laser Polarizer

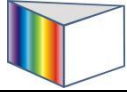
Part No.	Wavelength Range(nm)	Extinction Ratio	Angular Field	C.A.φa (mm)	O.D.φd (mm)	L (mm)
PGL1206	200~300	<math>5 \times 10^{-6}</math>	>6.0°	6.0	15.0	29.0
PGL1208				8.0	25.4	31.0
PGL1210				10.0	25.4	31.0
PGL1212				12.7	25.4	38.6
PGL1215				15.0	30.0	48.9
PGL1306	300~700	<math>5 \times 10^{-6}</math>	>6.0°	6.0	15.0	25.0
PGL1308				8.0	25.4	25.0
PGL1310				10.0	25.4	26.0
PGL1312				12.0	25.4	27.0
PGL1315				15.0	30.0	33.4
PGL1320				20.0	38.0	43.6
PGL1706	700~3000	<math>5 \times 10^{-6}</math>	>6.0°	6.0	15.0	23.0
PGL1708				8.0	25.4	24.7
PGL1710				10.0	25.4	25.9
PGL1712				12.0	25.4	27.0
PGL1715				15.0	30.0	33.4
PGL1720				20.0	38.0	43.6

### 2. Calcite Glan Laser Polarizer

Part No.	Wavelength Range(nm)	Extinction Ratio	Angular Field	C.A. φa (mm)	O.D. φd (mm)	L (mm)
PGL2006	350~2300	<math>5 \times 10^{-5}</math>	>7.7°	6.0	15.0	21.0
PGL2008				8.0	25.4	24.5
PGL2010				10.0	25.4	26.2
PGL2012				12.7	25.4	27.5
PGL2015				15.0	30.0	33.3
PGL2020				20.0	38.0	42.3

### 3.Yvo4 Glan Laser Polarizer

Part No.	Wavelength Range(nm)	Extinction Ratio	Angular Field	C.A.φa (mm)	O.D.φd (mm)	L (mm)
PGL3006	500~4000	<math>5 \times 10^{-6}</math>	>6.5°	6.0	15.0	18.0
PGL3008				8.0	25.4	20.0
PGL3010				10.0	25.4	23.0
PGL3012				12.7	25.4	25.0
PGL3015				15.0	30.0	26.0
PGL3020				20.0	38.0	29.0



## SPECIFICATIONS

Specifications	
Material	a-BBO, Calcite or YVO 4
Wavelength Range	BBO:200~500 nm Calcite:350~300 nm YVO4:500~000 nm
Extinction Ratio	Calcite:<5x10-5 a-BBO:<5x10-6 YVO4:<5x10-6
Surface Quality	20 / 10
Parallelism	<1 arc Min
Beam Deviation	< 3 arc minutes
Wavefront Distortion	$\lambda/4@633\text{nm}$
Damage Threshold	>500 MW/cm <sup>2</sup>
Coating	Single MgF2
Mount	Black Anodized Aluminium