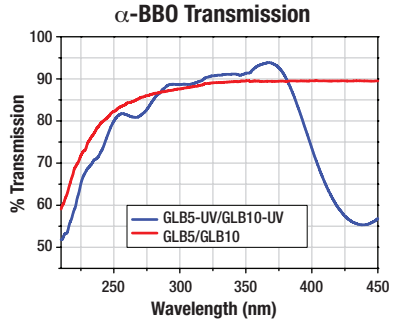
For current pricing, please see our website.

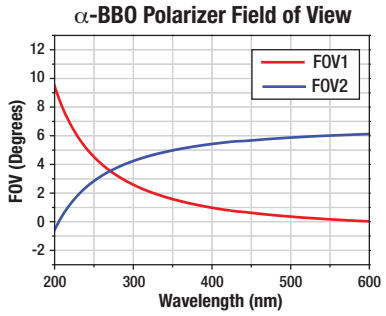
Glan-Laser α-BBO Polarizers

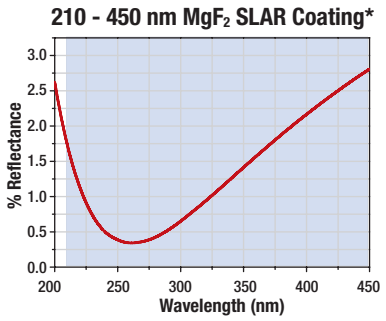
NEW products

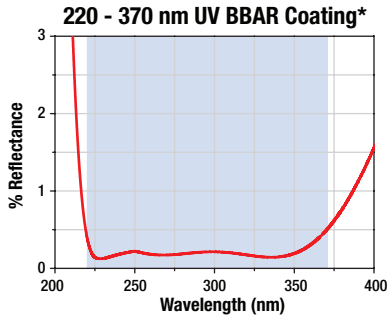
Specifications

- **Material:** Laser-Quality α-BBO
- **Extinction Ratio:** 100,000:1
- **Available AR Coatings**
  - SLAR MgF_2 (210 - 450 nm Centered at 266 nm), R_{avg} <1.5%
  - UV (220 - 370 nm), R_{avg} < 0.5%
- **Damage Threshold:** 5 J/cm^2 (10 ns Pulse @ 355 nm, 10 Hz, Ø0.347 mm Spot Size)
- **Transmission Range:** 210 - 450 nm
- **Wavefront Distortion:** ≤ λ/8 Over Clear Aperture (Excluding Side Ports)
- **Surface Quality**
  - 20-10 Scratch-Dig (Input/Output Faces)
  - 40-20 Scratch-Dig (Side Ports)
- Air-Spaced Design







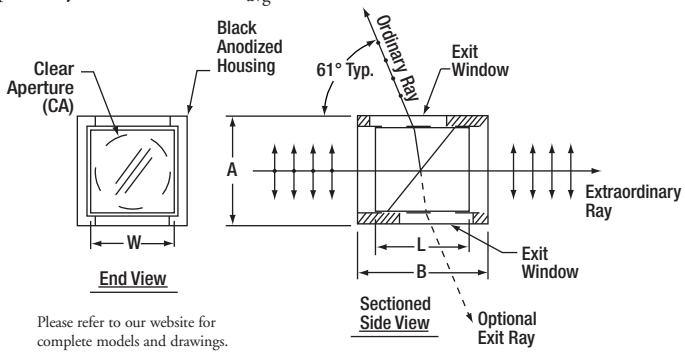


*Shaded region indicates performance in AR coating region

The Glan-Laser α-BBO Polarizer is specifically designed to deal with high-energy, short-wavelength laser light. Like our Glan-Taylor and Glan-Laser Calcite Polarizers, these polarizers are ideal for applications requiring extremely high polarization purity (100,000:1), high damage threshold (5 J/cm^2), and transmission in the UV (210 - 450 nm).

Two polished side exit ports are provided to allow bidirectional use of the prism polarizer. These side ports also ensure that the rejected light from high-power lasers can safely exit the polarizer.

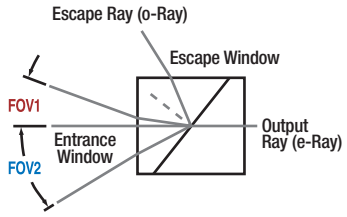
The polarizers are available with one of two antireflection coatings on the entrance and exit faces: a single-layer MgF_2 AR (SLAR-MgF_2) coating or a UV AR coating. The SLAR coating features good broadband UV performance with low reflectance (R_{avg} <1.5%) from 210 to 450 nm while the UV AR coating provides exceptionally low reflectance (R_{avg} <0.5%) from 220 to 370 nm.



Please refer to our website for complete models and drawings.

Prism Dimensions

	GLB5/GLB5-UV	GLB10/GLB10-UV
W	6.5 mm	12.2 mm
L	8.2 mm	16.26 mm
A	9.5 mm	15.9 mm
B	12.7 mm	19.1 mm
CA	Ø5 mm	Ø10 mm



ITEM #	$	£	€	RMB	DESCRIPTION
GLB5	$ 640.00	£ 460.80	€ 556,80	¥ 5,100.80	Glan-Laser α-BBO Polarizer, 5.0 mm CA, SLAR MgF_2 (210 - 450 nm)
GLB10	$ 750.00	£ 540.00	€ 652,50	¥ 5,977.50	Glan-Laser α-BBO Polarizer, 10.0 mm CA, SLAR MgF_2 (210 - 450 nm)
GLB5-UV	$ 690.00	£ 496.80	€ 600,30	¥ 5,499.30	Glan-Laser α-BBO Polarizer, 5.0 mm CA, UV Coating (220 - 370 nm)
GLB10-UV	$ 800.00	£ 576.00	€ 696,00	¥ 6,376.00	Glan-Laser α-BBO Polarizer, 10.0 mm CA, UV Coating (220 - 370 nm)