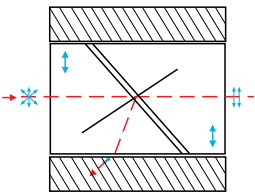
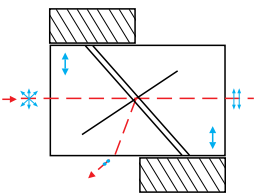
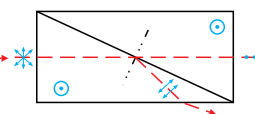
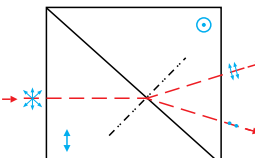
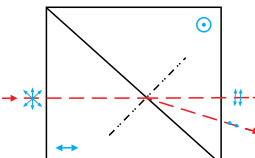


# Polarizers

Polarizer is an important optical component that is widely used in polarizing optics to produce the state of linear polarization. PHOTOP can provide the following polarizers with two kinds of materials,  $\alpha$ -BBO and Calcite to suit for the widest spectrum and high polarization purity application.

Polarizer	Material	Illustration	Properties and Application
Glan-Taylor Polarizer	$\alpha$ -BBO (190-3500) Calcite (350-2300)		<ul style="list-style-type: none"> <li>• Air-spaced</li> <li>• Cutting angle close to Brewster's Angle</li> <li>• The extraordinary ray passes through with little deviation</li> <li>• Sealed mount without escape windows is suitable for low to medium power application where the rejected beam is not required</li> </ul>
Glan-Laser Polarizer	$\alpha$ -BBO (190-3500) Calcite (350-2300)		<ul style="list-style-type: none"> <li>• Cutting angle close to Brewster's angle</li> <li>• Mounted with escape windows. Therefore, it is suitable for high power applications</li> </ul>
Glan-Thompson Polarizer	Calcite (350-2300)		<ul style="list-style-type: none"> <li>• Cemented</li> <li>• Suitable for low power applications</li> <li>• Special design for the ratio of L/A (length/aperture) guarantees the wide acceptance angle</li> </ul>
Wollastom Polarizer	Calcite (350-2300)		<ul style="list-style-type: none"> <li>• Cemented</li> <li>• Both ordinary and extraordinary beams are deviated</li> <li>• Suitable for low power application and where the large deviations is required</li> </ul>
Rochon Polarizer	$\alpha$ -BBO (190-3500)		<ul style="list-style-type: none"> <li>• Made by <math>\alpha</math>-BBO material guaranteeing a wide transmission range, especially, suitable for UV applications</li> <li>• Split the ordinary and extraordinary ray, but only extraordinary beam is deviated</li> <li>• Wide wavelength range</li> </ul>