

## WOLLASTON PRISMS

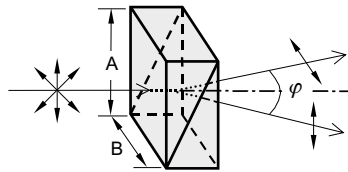
### Features

- Split a beam into two orthogonally polarized divergent beams
- Made from the finest optical grade natural calcite

Wollaston prism polarizers consist of two equal calcite prisms. Both output beams are almost equally deviated. Angular separation of output beams depends on wavelength. The use of highest grade calcite provides useful transmission covering the 300–2200 nm range.

Prisms mounted in black aluminium mounts M2P or M2Ps are available.

For mount's drawing and mounting suggestion, see page 1.62.



### Specifications

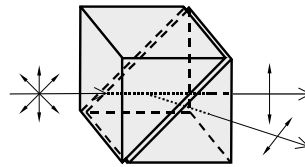
Material	Natural calcite
Surface quality	40 – 20 scratch & dig (MIL-PRF-13830B)
Wavelength range	300–2200 nm
Extinction ratio	1 : 100 000
Separation angle	10 or 20 deg
Dimension tolerance	±0.25 mm

Standard dimensions A × B, mm	Beam separation φ, deg	Unmounted		Mounted	
		Catalogue number	Price, EUR	Catalogue number	Price, EUR
10 × 10	10	450-2101	514	450-2101-M2Ps	574
12 × 12	10	450-2121	620	450-2121-M2Ps	680
14 × 14	10	450-2141	654	450-2141-M2P	714
10 × 10	20	450-2102	562	450-2102-M2Ps	622
12 × 12	20	450-2122	666	450-2122-M2Ps	726
14 × 14	20	450-2142	698	450-2142-M2P	758

Other sizes, better quality, different spectral ranges or AR coatings are available on request.

## ROCHON POLARIZING PRISMS

Rochon polarizer is made of two α-BBO prisms cemented together. The first prism, cut parallel to the optic axis, receives the light; the second, with the optic axis at right angles, transmits the ordinary ray without deviation but the extraordinary ray is deflected. A Rochon prism can be used to produce plane-polarized light and it can also be used with ultraviolet light. Any separation angle can be designed for specific wavelength upon request.



### Specifications

Material	α-BBO
Wavelength range	200–3500 nm
Extinction ratio	1 : 100 000
Surface quality	20 – 10 scratch & dig (MIL-PRF-13830B)
Wavefront distortion	λ/4 at 633 nm
Beam deviation	<3 arcmin
Separation angle	8–14 deg (8 deg @ 1064 nm)
Clear aperture	90%
Coating	Single layer MgF <sub>2</sub>
Mount	Black anodized aluminium

Side a × a, mm	Outer mount Ø, mm	Catalogue number	Price, EUR
8 × 8	25.4	455-2108	659
10 × 10	25.4	455-2110	839
15 × 15	30.0	455-2115	1140