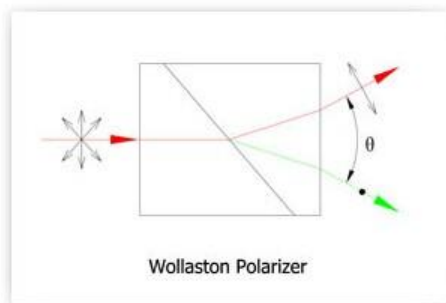


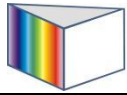
Wollaston Polarizers of Calcite, alpha BBO, YVO4 and Quartz Crystal

Wollaston polarizer is made of two birefringent material prisms that are cemented together. The deviations of the ordinary and extraordinary beams are nearly symmetrical about the input beam axis, so that the Wollaston polarizing beam splitter has approximately twice the deviation of the Rochon. The separation angle exhibits chromatic dispersion, as shown in the blow. Any separation angle can be designed upon the requirement.

Hangzhou Shalom EO offers the custom **Wollaston prisms** polarizers upon customer's request, and the stocked modules are also available in fast delivery and low cost.



Specifications	
Material	a-BBO、Calcite、YVO 4、 Quartz
Wavelength Range	a-BBO :190~3500 nm Calcite: 350~2300 nm YVO 4 :500~4000 nm Quartz: 200~2300 nm
Extinction Ratio	a-BBO :<5x10-6 Calcite :<5x10-5 YVO 4 :<5x10-6 Quartz :<5x10-4
Surface Quality	20 / 10
Parallelism	<1 arc Min
Beam Deviation	< 3 arc minutes
Damage Threshold	$\lambda / 4 @ 633\text{nm}$
Damage Threshold	>500 MW/cm ²
Coating	Single MgF2
Mount	Black Anodized Aluminium



1. α -BBO Wollaston Polarizer

Part No.	Wavelength Range(nm)	Extinction Ratio	Separation Angle(nm)	C.A.φa (mm)	O.D.φd (mm)	L (mm)
PWS1006	190~3500	$<5 \times 10^{-6}$	16° @800	6.0	15.0	15.0
PWS1008				8.0	25.4	17.0
PWS1010				10.0	25.4	19.0
PWS1015				15.0	30.0	23.0

2. Calcite Wollaston Polarizer

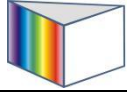
Part No.	Wavelength Range(nm)	Extinction Ratio	Separation Angle(nm)	C.A.φa (mm)	O.D.φd (mm)	L (mm)
PWS2006	350~2300	$<5 \times 10^{-5}$	19° @980	6.0	15.0	15.0
PWS2008				8.0	25.4	17.0
PWS2010				10.0	25.4	19.0
PWS2015				15.0	30.0	23.0
PWS2020				20.0	38.0	29.0

3. Yvo4 Wollaston Polarizer

Part No.	Wavelength Range(nm)	Extinction Ratio	Separation Angle(nm)	C.A.φa (mm)	O.D.φd (mm)	L (mm)
PWS3006	400~4000	$<5 \times 10^{-6}$	20° @1550	6.0	15.0	15.0
PWS3008				8.0	25.4	17.0
PWS3010				10.0	25.4	19.0
PWS3015				15.0	30.0	23.0
PWS3020				20.0	38.0	29.0

4. Quartz Wollaston Polarizer

Part No.	Wavelength Range	Extinction Ratio	Separation Angle	C.A.φa (mm)	O.D.φd (mm)	L (mm)
PWS4006	200~2300nm	$<5 \times 10^{-4}$	2° @1064nm	6.0	15.0	20.0
PWS4008				8.0	25.4	24.0
PWS4010				10.0	25.4	28.0
PWS4015				15.0	30.0	38.0
PWS4020				20.0	38.0	48.0



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