



Photonchina's wollaston polarizer can separate an incident beam into two rays: extraordinary and ordinary ray with a deviation angle which is dependent on wavelength. Both rays are transmitted through the other surface.

**Specifications:**

Material:	a-BBO, Calcite ,YVO4,Quartz
Wavelength Range:	a-BBO:190-3500 nm, Calcite:350-2300 nm, YVO4:400-5000 nm,Quartz:200-2300 nm
Extinction Ratio:	Calcite,Quartz:<5x10-5; a-BBO,YVO4:<5x10-6
Parallelism:	<1 arc Min
Surface Quality:	20/10
Beam Deviation:	< 3 arc minutes
Waveformt Distortion:	$\lambda/4@632.8\text{nm}$
Damage Threshold:	>500 MW/cm <sup>2</sup>
Coating:	Single MgF <sub>2</sub>
Mount:	Black Anodized Aluminium

### 1. a-BBO Wollaston Polarizer

Wavelength Range	Extinction Ratio	Separation Angle	C.A.φa (mm)	O.D.φd (mm)	L (mm)
190~3500nm	<math>5 \times 10^{-6}</math>	16° @800nm	6.0	15.0	15.0
			8.0	25.4	17.0
			10.0	25.4	19.0
			15.0	30.0	23.0

### 2. Calcite Wollaston Polarizer

Wavelength Range	Extinction Ratio	Separation Angle	C.A.φa (mm)	O.D.φd (mm)	L (mm)
350~2300nm	<math>5 \times 10^{-5}</math>	19° @980nm	6.0	15.0	15.0
			8.0	25.4	17.0
			10.0	25.4	19.0
			15.0	30.0	23.0
			20.0	38.0	29.0

### 3. Yvo4 Wollaston Polarizer

Wavelength Range	Extinction Ratio	Separation Angle	C.A.φa (mm)	O.D.φd (mm)	L (mm)
400~4000nm	<math>5 \times 10^{-6}</math>	20° @1550nm	6.0	15.0	15.0
			8.0	25.4	17.0
			10.0	25.4	19.0
			15.0	30.0	23.0
			20.0	38.0	29.0

### 4. Quartz Wollaston Polarizer

Wavelength Range	Extinction Ratio	Separation Angle	C.A.φa (mm)	O.D.φd (mm)	L (mm)
200~2300nm	<math>5 \times 10^{-4}</math>	2° @1064nm	6.0	15.0	20.0
			8.0	25.4	24.0
			10.0	25.4	28.0
			15.0	30.0	38.0
			20.0	38.0	48.0