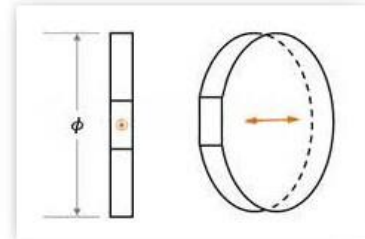
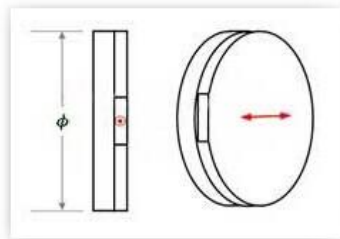
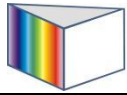


True Zero Order Waveplates

The thickness of this type of the true zero-order waveplates or retarders are very thin, the substrates are added to strengthen the waveplates, but in some applications of high damage threshold ($>1\text{GW}/\text{cm}^2$), the substrates are not allowed, the special carefulness should be taken in operation on such waveplates without substrates.

Hangzhou Shalom EO offer the two types of **true zero order waveplates**: the single plate without substrates and the cemented waveplate with substrates. The stocked modules are available for customer's selection in fast delivery and low cost.





Specifications

Specifications	
Material	Quartz
Wavelength Range	200~2300 nm,
Dimension Tolerance	+/-0.1mm
Surface Quality	20 / 10
Parallelism	<1 arc Sec
Retardation Tolerance	< $\lambda/300$
Clear Aperture	>90%
Damage Threshold	>500 MW/cm ²
Coating	AR coating
Mount	Black Anodized Aluminium

1. True Zero Order Waveplate-Single Plate

This type of zero order waveplate is designed for high damage threshold application (more than 1GW/cm²). As the plate is very thin, it's easy to break during operation.

- Wide Angle Acceptance
- Better Temperature Bandwidth
- Wide Wavelength Bandwidth
- High Damage Threshold
- AR Coated, R<0.2%
- Single Plate

Standard Wavelength:

1/2: 1310nm, 1480nm, 1550nm

1/4: 980nm, 1064nm, 1310nm, 1480nm, 1550nm

Quarter Waveplates P/N #	HalfWaveplate P/N #	Diameter (mm)
WPS410	WPS210	10
WPS412	WPS212	12.7
WPS415	WPS215	15
WPS420	WPS220	20
WPS425	WPS225	25
WPS430	WPS230	30

2. True Zero Order Waveplate- Cemented

This type of zero order waveplate is constructed of a true zero order waveplate and a BK7 substrate. As the waveplate is very thin and easy to be damaged, the Bk7 plate's function is to strengthen the waveplate.

- Standard Thickness: 1.1 ± 0.2 mm
- Cemented by Epoxy
- Wide Angle Acceptance
- Better Temperature Bandwidth
- Wide Wavelength Bandwidth
- AR coating, $R < 0.2\%$

Standar wavelength:

532nm, 632.8nm, 780nm, 808nm, 980nm, 1064nm, 1310nm, 1480nm, 1550nm

Quarter Waveplates P/N #	HalfWaveplate P/N #	Diameter (mm)
WPF410	WPF210	10
WPF412	WPF212	12.7
WPF415	WPF215	15
WPF420	WPF220	20
WPF425	WPF225	25
WPF430	WPF230	30