Crystals Series

YVO_4 Beam Displacer

The yttrium orthovanadate (YVO_4) is a positive uniaxial crystal grown with Czochralski method. It has good temperature stability and physical and mechanical properties and is ideal for optical polarizing components because of its wide transparency range and large birefringence.

Specifications:

Dimension Tolerance: ± 0.05x± 0.05x+0.0/-0.1mm

Optical Axis Orientation: ± 0.5°

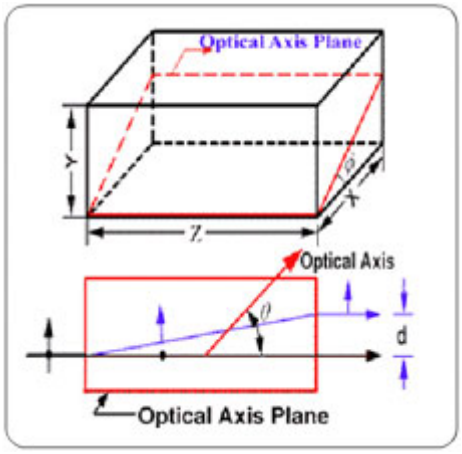
Parallelism: <15 arc sec

Perpendicularity: <10 arc min

Flatness: l /4 @ 632.8 nm

Surface Quality: 10/5

AR-coating: R<0.2% @ 1550 nm± 30nm



P/N	Crystal	Size	θ	Φ	d	AR@
BRD3070	YVO_4	2.6x2.6x7mm	45°	0°	0.70mm	1550nm
BRD3100	YVO_4	2.6x2.6x10mm	45°	0°	1.00mm	1550nm
BRD3120	YVO_4	2.6x2.6x12mm	45°	0°	1.20mm	1550nm
BRD3150	YVO_4	2.6x2.6x15mm	45°	0°	1.50mm	1550nm
BRD3075	YVO_4	2.6x2.6x7mm	45°	45°	0.70mm	1550nm
BRD3105	YVO_4	2.6x2.6x10mm	45°	45°	1.00mm	1550nm
BRD3125	YVO_4	2.6x2.6x12mm	45°	45°	1.20mm	1550nm
BRD3155	YVO_4	2.6x2.6x15mm	45°	45°	1.50mm	1550nm

YVO_4 Wedge

Specification:

Aperture : 1.0x1.0mm^2 to 2x2mm^2

Dimension Tolerance : ± 0.05mm

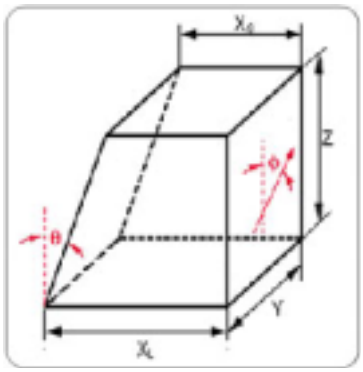
Wedge Angle Tolerance : ± 15%

Optical Axis Orientation : ± 0.5°

Flatness : l/4 @ 632.8 nm

Surface Quality : 10/5

AR-Coating : R<0.2% @l ± 30nm, l is the center of the wavelength



P/N	Crystal	X	Y	Z	θ	Φ	AR@
BRW3055	YVO_4	X_L=0.5mm	1.4mm	1.4mm	5°	22.5°	1550nm
BRW3095	YVO_4	X_L=0.5mm	1.4mm	1.4mm	9°	22.5°	1550nm
BRW3053	YVO_4	X_L=0.5mm	1.4mm	1.4mm	5°	22.5°	1310nm
BRW3093	YVO_4	X_L=0.5mm	1.4mm	1.4mm	9°	22.5°	1310nm

$LiNbO_3$ Wedge

$LiNbO_3$ crystal is one of the most important crystals that is used in many different kinds of applications and is also a birefringence crystal. Although its birefringence is much smaller than YVO_4 , it is still widely used in fiber optic isolators now because its lower price. UltiQuest crystal provide wedges and compensators made from optical grade $LiNbO_3$ material.

Specifications:

Aperture : 1.0x1.0mm^2 to 2x2mm^2

Dimension Tolerance : ± 0.05mm

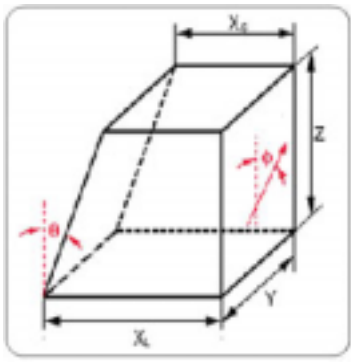
Wedge Angle Tolerance : ± 15%

Optical Axis Orientation : ± 0.5°

Flatness : λ/4 @ 632.8 nm

Surface Quality : 10/5

AR-Coating : R<0.2% @λ ± 30nm, λ is the center of the wavelength



P/N	Crystal	X_L	Y	Z	θ	Φ	AR@
BRW2135	$LiNbO_3$	0.5mm	1.25mm	1.25mm	13°	22.5°	1550nm
BRW2155	$LiNbO_3$	0.5mm	1.25mm	1.25mm	15°	22.5°	1550nm
BRW2133	$LiNbO_3$	0.5mm	1.25mm	1.25mm	13°	22.5°	1310nm
BRW2153	$LiNbO_3$	0.5mm	1.25mm	1.25mm	15°	22.5°	1310nm