

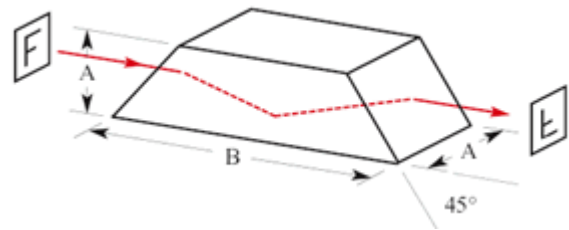
# DOVE PRISMS

Dove prisms are used as image rotators. As the prism is rotated, the image passing through will rotate at twice the angular rate of the prism. Dove prisms are used with parallel or collimated light.

Dove prisms are normally used in a TIR (total internal reflection) mode with the hypotenuse (longest) face unaluminized; however, the useful aperture can be doubled by aluminizing or silvering the hypotenuse face of two identical prisms and cementing their faces together.

## Standard Specifications:

Optical Material:	BK7 or Fused silica
Dimension Tolerance:	± 0.2mm
Clear Aperture:	>90%
Angle Tolerance:	±3 arc minutes
Surface Quality:	40-20 scratch and dig
Wavefront Distortion:	λ/4 at 632.8nm
Bevel:	<0.25mm X 45°
Coating:	available upon request



## Standard BK7 and Fused silica Dove Prisms

A(mm)	B(mm)	Material	Product Number
5.0	21.1	BK7	UQT-DPVB0101
5.0	21.1	Fused silica	UQT-DPVF0102
10.0	42.3	BK7	UQT-DPVB0103
10.0	42.3	Fused silica	UQT-DPVF0104
15.0	63.4	BK7	UQT-DPVB0105
13.0	63.4	Fused silica	QUT-DPVF0106
20.0	80.0	BK7	UQT-DPVB0107
20.0	80.0	Fused silica	QUT-DPVF0108

Please Contact [ultiQuest](#) for other dimensions in prototype and production quantities.

## NOTES!

- ➔ If you are looking for Fused silica Dove prisms, please request us.
- ➔ Every edge of these prisms is chamfered (beveled) for chipping prevention. The dimensions of these prisms are values not including chamfer.
- ➔ Be sure to wear laser safety goggles when checking optical path and adjusting optical axis.