Penta Prisms

Optics

Lenses

Mirrors & eamsplitters

Prisms & Polarizers

Filters

Pinholes

Optomechanics

Breadboards

Mounting

Mirror & Component Mounts

Positioners

Motorized

Precise 90 degree deviation

Designed for 400-700 nm

Specifications

Material: BK7 Glass

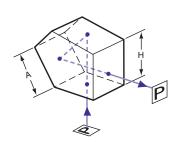
Dimension Tolerance: +0 / -0.254 mm

Surface Flatness: λ/4

Angular Tolerance: <10 arcsec Clear Aperture: > 85% of central dim.

Penta Prisms

	Side		
Catalog Number	A (mm)	H (mm)	Price US
24-1364	7.0	6.0	\$77.00
24-1372	10.0	10.0	\$68.00
24-3840	20.0	20.0	\$89.00



Penta Prisms deviate an incident beam through 90° without inverting or reversing it. They also show constant deviation (i.e. the beam is deviated through 90° irrespective of the orientation of the prism). The accuracy of the 90° deviation is therefore only dependent on the manufacturing tolerances of the prism. These prisms are extremely useful when precise orientation of



the prism is not possible and also where the path length through an instrument needs to be shortened. Typical applications include range finding, surveying, alignment, and cinephotography. The reflecting faces are coated and the entrance and exit faces have an antireflection coating optimized for 400-700 nm.

Dove Prisms

- Image inversion and rotation
- Optimized for 400-700 nm

Specifications

Material: BK7 Glass

Dimension Tolerance: +0 / -0.254 mm

Angle Tolerance: <3 arcmin Surface Quality: 20-10

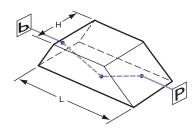
Flatness: $\lambda/4$ Coating: None

Chamfer: 0.3 mm x 45°

Clear Aperture: > 85% of central dim.

Dove Prisms

	Side		
Catalog Number	H (mm)	L (mm)	Price US
24-1414	10.0	42.3	\$74.00
24-1430	15.0	63.4	\$75.00
24-1448	20.0	80.0	\$110.00



Dove Prisms are a truncated form of right angle prism. They use total internal reflection to produce an inverted image which emerges without any beam deviation. The main application for these prisms are as image rotators. Rotating the prism about an optical axis results in the image rotating at double the

