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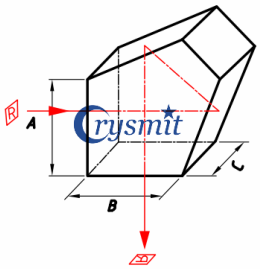
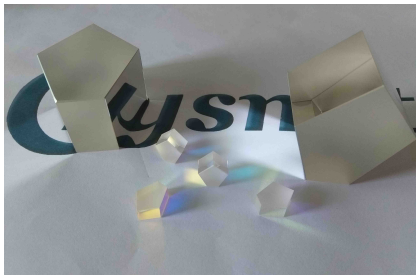
Penta Prisms

Penta prism can deviate an incident beam without inverting or reversing to 90°.The deviation angle of 90° is independent of any rotation of the prism about an axis parallel to the line of intersection of the two reflecting faces. It is commonly used in Plumb Level, Surveying, Alignment, Range finding and Optical Tooling. The reflecting surfaces of this Prism must be coated with a metallic or dielectric coating. The standard Penta Prism reflecting surfaces are coated with aluminum or enhanced aluminum.





Attribute	Specification
Material	N-BK7, Fused Silica,N-SF11,etc
Dimension Axh (mm)	2.5×2.5~100.0×100.0
Dimension Tolerance(mm)	±0.2 (General), ±0.05 (High Precision)
90°Deviation Tolerance	<1 min. (General), <3 sec. (High Precision)
Flatness@ 633mm	l/2(General), l/4(High Precision)
Reflection (per face@400-700nm)	R>90%
Surface Quality	60/40General), 20/10(High Precision)
Coating	uncoated, AR Coating, etc

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