Penta Prism

Overview

Penta Prism is a Five –Side prism, It has two important properties, First the image is neither inverted nor reverse while deviated by 90 degree. Secondly, It is a constant deflection device i.e all the transmitted rays are deviated by the same exact 90 degree. Slight movement of the prism does not effect the true right angle.

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 with Black Paint.

Specifications

Standard Specification:
Material: ------------------------- BK7 Grade A optical glass
Dimension Tolerance:--------±0.2mm
90° Deviation Tolerance:--- according to the table
Flatness: ------------------------ λ/2(Standard), λ/4(High Precision)@633nm
Reflectivity:--------------------- R > 95% per face @400-700 nm
Surface Quality: --------------60-40 scratch and dig
Coating on input and output sides:-------Uncoated

Prisms

- ✔ Penta Prism
- ✔ Beam Splitter Penta Prism
- ✔ Right Angle Prism
- ✔ Corner Cube Retro Reflector
- ✔ Dove Prism
- ✔ Equilateral Prism (Dispersive Prism)