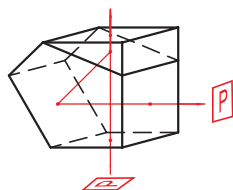


► Beamsplitter Penta Prism

Beamsplitter penta prism is combined with a penta prism and a wedge cemented on one reflective surface, a beamsplitter coating on the cemented interface to form a beamsplitter. Now the transmission/reflection (T/R) ratio of beamsplitter penta prism we provided include 50/50, 20/80 and etc. Other T/R ratio is available upon request.



Specifications:

Material: BK7 grade A optical glass

Dimension (h) Tolerance: $\pm 0.1\text{mm}$

Surface Quality: 60-40 S/D, up to 20-10S/D

90° Deviation : < 30 arc sec., up to 5 arc sec. Refer to the table

180° Deviation : < 10 arc sec., up to 5 arc sec. Refer to the table

Flatness: $\lambda/2$ @632.8nm(Standard), up to $\lambda/4$ @632.8nm

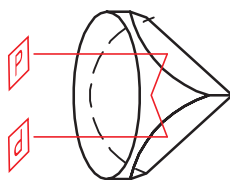
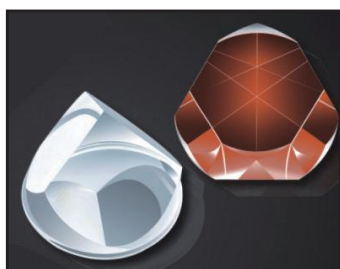
Reflectivity: $R > 95\%$ per face @630-680nm

Protective Bevel: < 0.25mm x 45°

Beamsplitter Ratio Transmission/Reflection: T/R 20/80 ± 5 @630-680nm

► Corner Cube Retroreflector

It has three mutually perpendicular surfaces and a hypotenuse face. Light entering through the hypotenuse is reflected by each of the three surfaces in turn and will emerge through the hypotenuse face parallel to the entering beam regardless of the orientation of the incident beam., it is often used for distance measurement, optical signal process and laser interferometer.



Specifications:

Material: BK7, Fused Silica

Dimension Tolerance: $+0.0/-0.2\text{mm}$

Surface Quality: 60-40 S/D, up to 20-10S/D

Deviation : $180^\circ \pm 3$ arc secs

Flatness: $\lambda/8$ @632.8nm, up to $\lambda/10$ @632.8nm

Wavefront: $\lambda/2$ @632.8nm

Standard Corner Cube Retroreflectors

Size (mm)	10 sec. deviation	5sec. deviation	2sec. deviation
ϕ (mm)	Part No.	Part No.	Part No.
12.7	CNP-127-10	CNP-127-05	CNP-127-02
25.4	CNP-254-10	CNP-254-05	CNP-254-02
38.1	CNP-381-10	CNP-381-05	CNP-381-02
50.8	CNP-508-10	CNP-508-05	CNP-508-02

► Dove Prism

Dove prism has two applications. The main application is used as a rotator. It can rotate an image but without deviating the beam. And when the prism is rotated about the input parallel ray through some angle, the image rotates through twice that angle. It is very important that the application must be used with parallel or collimated beam and the large square reflective surface should be kept very clean. Another application is used as a retroreflector. For this application it performs as a right-angle prism.