

Prism

Mirror

Window

Beamsplitter

Waveplate

IR Optics

Lens

Filter

Micro Optics

Plastic Optics

Right Angle Prism

Introductions



A Right Angle Prism is used as a mirror to deviate light through 90 degree, and also as a retro reflector to deflect light through 180 degree by total internal reflection.

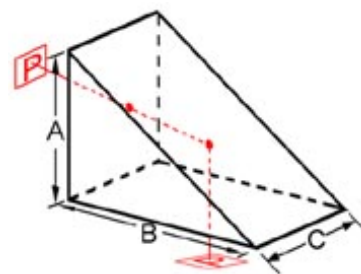
90-degree Deflection

90 degree deflection occurs at the hypotenuse face. The image is erected and reversed

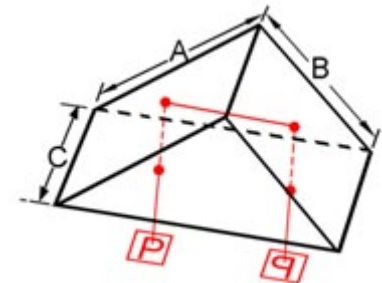
180-degree Deflection

180 degree deflection uses the hypotenuse as the entrance and exit face.

Beam Path



90 degree Deflection



180 degree Deflection

Standard Specifications

Items	Specification
Material	BK7 Grade A or equivalent Optical Glass
Dimension Tolerance	+0/ -0.20 mm
Clear Aperture	> 80%
Surface Quality	scratch and dig 60-40
Angle Tolerance	30 arc seconds
Flatness	$\lambda/2$ at 632.8 nm

Notes:

- Besides BK7, ZF1, ZF13, Sapphire and any other optical glass is available.
- Angle tolerance such as 3', 1', 10" is available.
- Surface Quality we could reach 20-10 scratch and dig.
- Please show us the size and the coating specification.

Angle Tol.	3 min.	1 min.	30 sec.
Size (mm)	Part NO.	Part NO.	Part NO.
A=B=C=2.0	PRA0101	PRA0201	PRA0301
A=B=C=3.2	PRA0102	PRA0202	PRA0302
A=B=C=5.0	PRA0103	PRA0203	PRA0303
A=B=C=10.0	PRA0104	PRA0204	PRA0304
A=B=C=12.7	PRA0105	PRA0205	PRA0305
A=B=C=15.0	PRA0106	PRA0206	PRA0306
A=B=C=20.0	PRA0107	PRA0207	PRA0307
A=B=C=25.4	PRA0108	PRA0208	PRA0308
A=B=C=30.0	PRA0109	PRA0209	PRA0309

Right Angle Prism

Optical Components

PRA 01