

Prism
Mirror
Window
Beamsplitter
Waveplate
IR Optics
Lens
Filter
Micro Optics
Plastic Ontics

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.

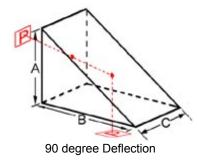
90-degree Deflection

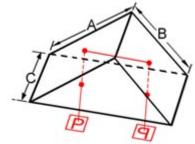
90 degree deflection occurs at the hypotenuse face. The image is erected and reversed

180-degree Deflection

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

Beam Path





180 degree Deflection

Standard Specifications

Items	Specification		
Material	UV Grade Fused Silica		
Dimension Tolerance	+0/ -0.20 mm		
Clear Aperture	> 80%		
Surface Quality	scratch and dig 60-40		
Angle Tolerance	30 arc seconds		
Flatness	λ/2 at 632.8 nm		

Notes:

- 1. Besides Fused Silica, BK7, ZF1, Sapphire and any other optical glass is available.
- 2. Angle tolerance such as 3', 1', 10" is available.
- 3. Surface Quality we could reach 20-10 scratch and dig.
- 4. 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=10.0	PRA1101	PRA1201	A=B=C=10.0
A=B=C=12.7	PRA1102	PRA1202	A=B=C=12.7
A=B=C=25.4	PRA1103	PRA1203	A=B=C=25.4

Right Angle Prism

Optical Components

PRA 02