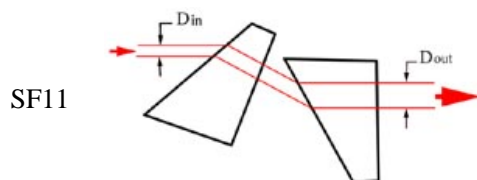




## Prisms

### Anamorphic Prisms

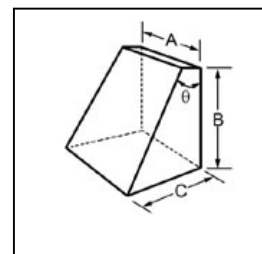


These two prisms can expand or contract the beam in one direction without any changes in the other direction. By adjusting the angles among the incident beam and two prisms, the shape of the beam can be changed. It is very easy to turn elliptical beam into circular beam.

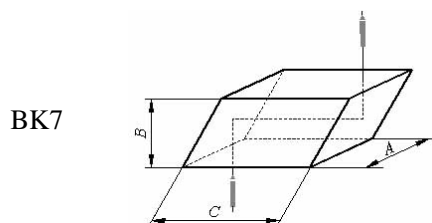
Part No.	A(mm)	B(mm)	C(mm)	Pair Price
ANP101	12	12	8.5	US\$28

#### Specification

Material:	SF11 Grade A optical glass
Dimension Tolerance:	+0,-0.2mm
Bevel:	0.2 mm to 0.5 mm x 45°
Clear Aperture:	>80%
Surface Quality:	60-40 scratch and dig
Flatness:	$\lambda/8$ at 632.8 nm
$\theta$	$29^{\circ}27' \pm 30''$
Coat:	MgF <sub>2</sub> single layer on perpendicular surface



### Rhombic Prisms



Rhombic prisms are used to displace a beam laterally without changing its direction

A=B	C	1 min. deviation		30 sec. deviation		15 sec. deviation	
		Part No.	Price	Part No.	Price	Part No.	Price
10.0	10.85	RHP101	US\$20	RHP111	US\$35	RHP121	US\$50
12.7	28.76	RPH102	US\$20	RHP112	US\$35	RHP122	US\$50
25.4	25.4	RHP103	US\$25	RHP113	US\$45	RHP123	US\$60

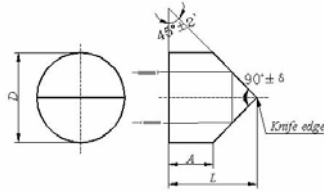
#### Specification

Material:	BK7 Grade A optical glass
Dimension Tolerance:	+0,-0.2mm
Bevel:	0.2 mm to 0.5 mm x 45°
Clear Aperture:	>80%
Surface Quality:	60-40 scratch and dig
Flatness:	$\lambda/8$ at 632.8 nm
Beam deviation:	As table
Coat:	uncoated



**Porro Prisms**

BK7  
UVFS



Porro prisms are used to high precise 180° beam folding.

Beam Deviation =  $2n\delta$

n: Refractive Index

$\delta$ : Angle Error of 90°

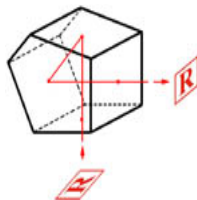
Part No.	Material	$\phi$	A(mm)	L(mm)	$\delta$	Unit Price
POP101	BK7	12.7	6.35	12.7	2 arc Sec.	US\$40.0
POP102	BK7	25.4	12.7	25.4	5 arc Sec.	US\$60.0
POP201	UVFS	12.7	6.35	12.7	2 arc Sec.	US\$60.0
POP202	UVFS	25.4	12.7	25.4	5 arc Sec.	US\$90.0

**Specification**

Material: BK7, UVFS Grade A optical glass  
 Dimension Tolerance: +0,-0.2mm  
 Bevel: 0.2 mm to 0.5 mm x 45°  
 Clear Aperture: >80%  
 Surface Quality: 60-40 scratch and dig  
 Flatness:  $\lambda/8$  at 632.8 nm  
 Beam deviation: As table  
 Coat: uncoated

**Penta Prisms**

BK7



Penta prism can deviate an incident beam without inverting or reversing to 90°. It is commonly used in Plumb Level, Surveying, Alignment, Range finding and Optical Tooling.

Size(mm)	1 min. deviation		30 sec. deviation		10 sec. deviation	
	Part No.	Unit Price	Part No.	Unit Price	Part No.	Unit Price
7x6	PTP101	US\$14.0	PTP111	US\$30.0	PTP121	US\$45.0
10x10	PTP102	US\$14.0	PTP112	US\$30.0	PTP122	US\$45.0
15x15	PTP103	US\$15.0	PTP113	US\$30.0	PTP123	US\$45.0

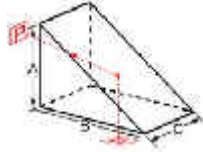
**Specification:**

Material: BK7 Grade A optical glass  
 Dimension Tolerance: +0,-0.2mm  
 Bevel: 0.2 mm to 0.5 mm x 45°  
 Clear Aperture: >80%  
 Surface Quality: 60-40 scratch and dig  
 Flatness:  $\lambda/4$  at 632.8 nm  
 Reflectivity: R > 95% per face  
 90° deviation tolerance: As Table



### Right-Angle Prisms

BK7



UVFS

Right angle prism is deviating or deflecting a beam of light with  $90^\circ$  or  $180^\circ$ . It is often used in telescope, periscope and other optical system.

### BK7 Right Angle

Size(mm)	3 min. deviation		1 min deviation		30 sec. deviation	
	Part No.	Unit Price	Part No.	Unit Price	Part No.	Unit Price
10.0x10.0	RAP101	US\$8.0	RAP111	US\$9.0	RAP121	US\$11.0
12.7x12.7	RAP102	US\$8.0	RAP112	US\$9.0	RAP122	US\$11.0
15.0x15.0	RAP103	US\$9.0	RAP113	US\$10.0	RAP123	US\$12.0
25.4x25.4	RAP104	US\$12.0	RAP114	US\$14.0	RAP124	US\$16.0

### UVFS Right Angle

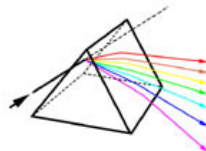
Size(mm)	3 min. deviation		1 min. deviation		30 sec. deviation	
	Part No.	Unit Price	Part No.	Unit Price	Part No.	Unit Price
10.0x10.0	RAP201	US\$20.0	RAP211	US\$30.0	RAP221	US\$40.0
12.7x12.7	RAP202	US\$20.0	RAP212	US\$30.0	RAP222	US\$40.0
25.4x25.4	RAP203	US\$25.0	RAP213	US\$35.0	RAP223	US\$50.0

### Specification:

Material:	BK7 UVFS Grade A optical glass
Dimension Tolerance:	+0,-0.2mm
Bevel:	0.2 mm to 0.5 mm x $45^\circ$
Clear Aperture:	>80%
Surface Quality:	60-40 scratch and dig
Flatness:	$\lambda/4$ at 632.8 nm
Angle deviation tolerance:	As table

### Dispersion Prisms

BK7  
UVFS  
SF-14



A commonly used optical component for dispersing the spectrum.

### BK7 Dispersion Prisms

Part No.	A=B=C(mm)	H(mm)	Unit Price
PDP101	10.0	10.0	US\$15.0
PDP102	12.7	12.7	US\$15.0
PDP103	25.4	25.4	US\$20.0

### UVFS Dispersion Prisms

Part No.	A=B=C(mm)	H(mm)	Unit Price
PDP201	10.0	10	US\$20.0
PDP202	12.7	12.7	US\$20.0
PDP203	25.4	25.4	US\$30.0



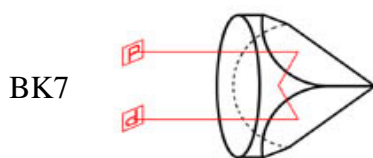
## SF-14 Dispersion Prisms

Part No.	A=B=C(mm)	H(mm)	Unit Price
PDP301	10.0	10.0	US\$20.0
PDP302	12.7	12.7	US\$20.0
PDP303	25.4	25.4	US\$30.0

## Specification

Material:	BK7 UVFS Grade A optical glass
Dimension Tolerance:	+0,-0.2mm
Bevel:	0.2 mm to 0.5 mm x 45°
Clear Aperture:	>80%
Surface Quality:	60-40 scratch and dig
Flatness:	$\lambda/2$ at 632.8 nm
Angle deviation tolerance:	$\pm 3$ arcmin

## Corner Cube Retroreflectors



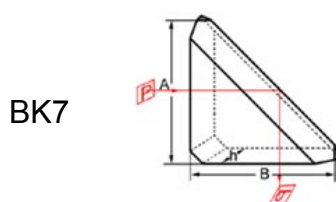
Light entering through the hypotenuse is reflected by each of the three surfaces in turn and will emerge through the hypotenuse face parallel to the entering beam regardless of the orientation the incident beam.

Part No.	(mm)	h (mm)	Unit Price
CNP101	15.0	11.3	US\$60.0
CNP102	25.4	19.0	US\$70.0
CNP103	38.0	28.5	US\$80.0

## Specification:

Material:	BK7 Grade A optical glass
Dimension Tolerance:	+0,-0.2mm
Bevel:	Propective bevel
Clear Aperture:	>80%
Surface Quality:	60-40 scratch and dig
Flatness:	$\lambda/4$ @632.8 nm on big surface; $\lambda/10$ @632.8 nm on other surface
Wavefront Distortion	$\lambda/2$ @632.8
Angle deviation:	$180^{\circ} \pm 3$ arc sec

## Roof Prisms



Roof prism can invert and reverse an image, also, deflect the image 90°. Therefore, it is often used in terrestrial telescopes, viewing systems and rangefinders.

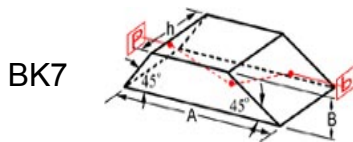


Part No.	A (mm)	B (mm)	h (mm)	Unit Price
RFP101	27.4	20.0	20.0	US\$30.0
RFP102	41.1	30.0	30.0	US\$45.0

### Specification

Material:	BK7 UVFS Grade A optical glass
Dimension Tolerance:	+0,-0.2mm
Clear Aperture:	>80%
Surface Quality:	60-40 scratch and dig
Flatness:	$\lambda/2$ at 632.8 nm
Angle deviation tolerance:	$\pm 3$ arcmin

### Dove Prisms



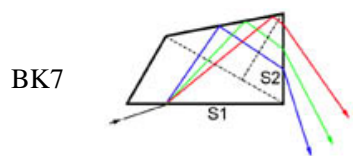
Dove prism has two applications. The main application is used as a rotator. And when the prism is rotated about the input parallel ray through some angle, the image rotates through twice that angle. Another application is used as a retroreflector.

Part No.	A (mm)	B (mm)	h (mm)	Unit Price
DVP101	42.3	10.0	10.0	US\$15.0
DVP102	63.4	15.0	15.0	US\$20.0

### Specification

Material:	BK7 UVFS Grade A optical glass
Dimension Tolerance:	+0,-0.2mm
Clear Aperture:	>80%
Surface Quality:	60-40 scratch and dig
Flatness:	$\lambda/2$ at 632.8 nm
Angle deviation tolerance:	$\pm 3$ arcmin

### Pellin-Broca Prisms



It is composed by two 30° dispersion prisms and a right angle prism. When a beam incident in one of the two surfaces (S1 & S2) at Brewster angle, then the beam will output at Brewster angle too from another surface, and beam is deviated 90 degree. It is often used as a dispersion prism.

Part No.	A(mm)	B(mm)	H(mm)	Unit Price
PBP01	11.0	20.0	6.4	US\$50.0
PBP02	23.5	40.0	12.7	US\$70.0
PBP03	36.0	60.0	25.4	US\$85.0

### Specification

Material:	BK7 UVFS Grade A optical glass
Dimension Tolerance:	+0,-0.2mm



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Bevel:	0.2 mm to 0.5 mm x 45°
Clear Aperture:	>80%
Surface Quality:	60-40 scratch and dig
Flatness:	$\lambda/2$ at 632.8 nm
Design wavelength:	546.1nm
Angle:	$\alpha=79.5^\circ \pm 5'$ . $\beta=60^\circ \pm 1'$ .