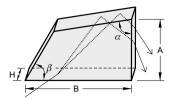


## **PELLIN-BROCA PRISMS**

### Features

- Extremely small loss of a p-polarized beam
- Light separated by wavelength is conveniently turned at an 90° angle with minimum deviation
- UV FS prisms provide 1.26° separation between 532 nm and 1064 nm



### In a Pellin-Broca prism, an ordinary dispersing prism is split in half along the bisector of the apex angle. Using a right angle prism, the two halves are joined to create a dispersing prism with an internal right angle bend obtained by total internal reflection. The entrance beam is deviated at

Housing accessories

an 90° angle to its initial direction.

Tilt/Rotation Stage 860-0110

Find more at EksmaOptics.com



# Specifications

Material	BK7, UV FS
Surface quality	20 – 10 scratch & dig (MIL-PRF-13830B)
Surface flatness	λ/10 @ 633 nm
Angles	$\alpha = 79.5^{\circ} \pm 0.5^{\circ}, \beta = 60^{\circ} \pm 1^{\circ}$
Design wavelength	546.1 nm
Dimensions	± 0.2 mm
Clear aperture	> 80% of dimensions

Material	A, mm	B, mm	H, mm	Catalogue number	Price, EUR
BK7	11.0	20.0	6.4	325-0206	57
	23.5	40.0	12.7	325-0412	63
UV FS	11.0	20.0	6.4	325-1206	110
	15.0	26.0	15.0	325-1215	121
	23.5	40.0	12.7	325-1412	150

# **RIGHT ANGLE PRISMS**

## **Features**

- 45–45–90 degree prisms
- Can be used as internal or external reflectors or as retro-reflectors

These prisms are used to direct beams at 90 degrees by using a hypotenuse face in total internal reflection (TIR). Right angle prisms are often preferable to an inclined mirror in applications involving severe acoustic or inertial loads, because they are easier to mount and deform much less than a mirror in response to external mechanical stress. As long as acceptance angle limitations for TIR from the roof faces are not exceeded, right angle prisms can serve as a retro reflector, turning beams back to the original direction.

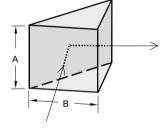
For various HR or AR coatings, please refer to the Coatings section.

# Housing accessories

#### Prism Holders 840-0160, 840-0170

Find more at EksmaOptics.com





# **Specifications**

Material	BK7, UV FS		
Surface quality	40 – 20 scratch & dig (MIL-PRF-13830B)		
Surface flatness	λ/4 @ 633 nm		
Clear aperture	80% of the face size		
90° angle tolerance	±2 arcmin or ±5 arcsec		
Pyramidal tolerance	±1 arcmin or ±30 arcsec		
Dimensions	±0.25 mm		

Size of face, 90° angle		Pyramidal tolerance	BK7		UV FS	
A × B mm tolerance	Catalogue number		Price, EUR	Catalogue number	Price, EUR	
$5.0 \times 5.0$	2 arcmin	1 arcmin	330-0052	18	330-1052	45
10.0 × 10.0	2 arcmin	1 arcmin	330-0102	20	330-1102	49
12.5 × 12.5	2 arcmin	1 arcmin	330-0122	22	330-1122	51
15.0 × 15.0	2 arcmin	1 arcmin	330-0152	25	330-1152	55
20.0 × 20.0	2 arcmin	1 arcmin	330-0202	31	330-1202	59
25.0 × 25.0	2 arcmin	1 arcmin	330-0252	37	330-1252	70
10.0 × 10.0	5 arcsec	30 arcsec	330-0105	42	330-1105	93
12.5 × 12.5	5 arcsec	30 arcsec	330-0125	44	330-1125	95
15.0 × 15.0	5 arcsec	30 arcsec	330-0155	50	330-1155	103
20.0 × 20.0	5 arcsec	30 arcsec	330-0205	57	330-1205	116
25.0 × 25.0	5 arcsec	30 arcsec	330-0255	73	330-1255	142

Custom fabrication also available: coating, cutting, edging, drilling according to your specification.

Contact us for other types of prisms

e.g. trapezoidal, various isosceles, Dove, Amici, Penta, etc.