

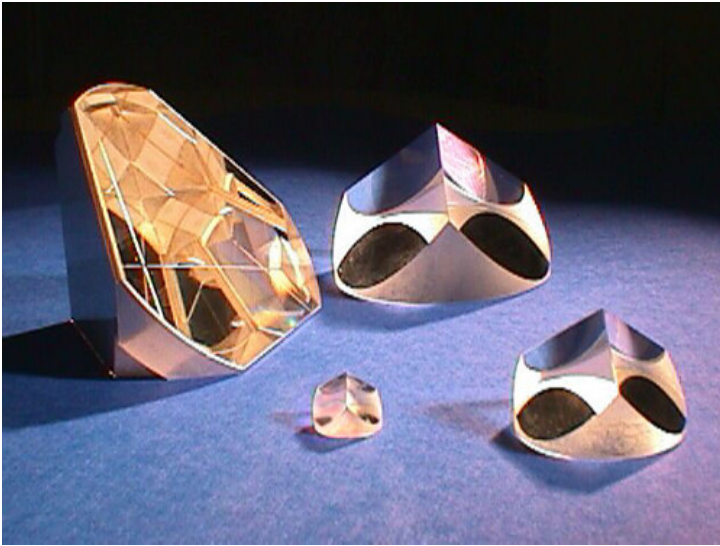


A.W.I. Industries
(USA) Inc.

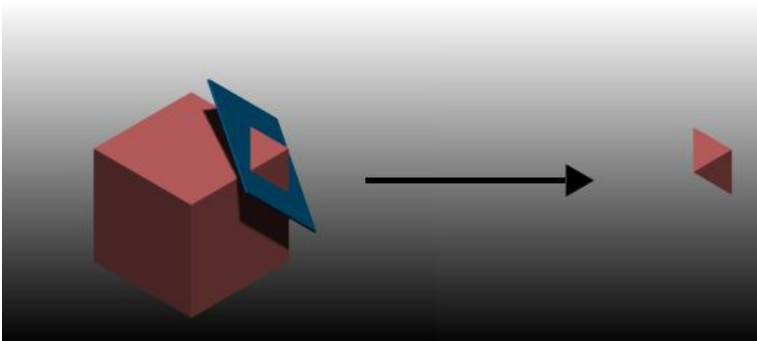
Welcome to AWI

OPTICS - Corner Cube Lens

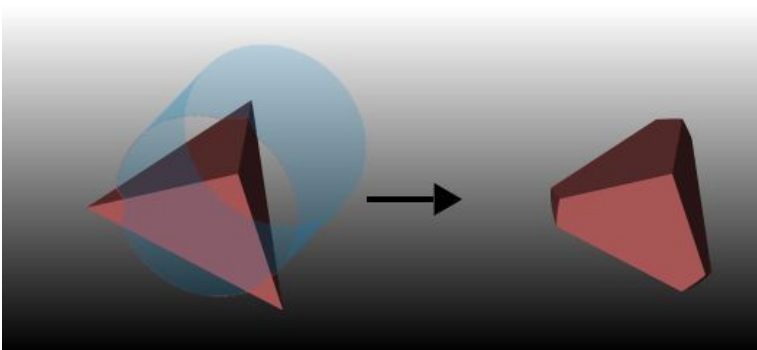
Corner Cubes, also known as Corner Cube Reflectors, Trihedral Retro-reflectors, Trihedral Prisms, or Corner Cube Retro-reflectors, are most commonly used for alignment because light is always reflected back towards the source.



Why is it called "Corner Cube"? Imagine a knife cutting diagonally across a square block of glass



and then the "three-sided pyramid" is further cut with a cylinder. The diameter of the cutting cylinder determines the size of the Corner Cube Lens:



Standard sizes are listed below. Custom-made sizes and special materials are also available upon request.

A.W.I. STANDARD CORNER CUBES								
Angle Tolerance	Material	Surface Quality	Dia. (mm)	Dia. Tol.	Height (mm)	Height Tol.	Surface Flatness	Chamfer (mm)

(arc sec.)		(Scratch / Dig)		(mm)		(mm)		
2,5,or 10	BK7	60/40	7.16	0	*	±0.25	1/4,1/8 wavelength	0.2
2,5,or 10	BK7	60/40	12.7	0	*	±0.25	1/4,1/8 wavelength	0.2
2,5,or 10	BK7	60/40	25.4	0	*	±0.25	1/4,1/8 wavelength	0.2
2,5,or 10	BK7	60/40	38.1	0	*	±0.25	1/4,1/8 wavelength	0.2
2,5,or 10	BK7	60/40	50.8	0	*	±0.25	1/4,1/8 wavelength	0.2
2,5,or 10	BK7	60/40	63.5	0	*	±0.25	1/4,1/8 wavelength	0.2
2,5,or 10	BK7	60/40	76.2	0	*	±0.25	1/4,1/8 wavelength	0.2

* = Height can be specified by customer.

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