

CORNER CUBE RETROREFLECTOR

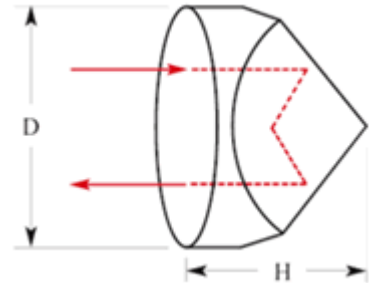
Corner Cube Retro-Reflectors operates on the principle of total internal reflection (TIR). A beam entering the effective aperture is reflected by the three roof surfaces and emerges from the entrance / exit surface parallel to itself. This property is independent of orientation of the retro-reflector, within acceptance angle limitations.

For applications in which either the acceptance angle for TIR is exceeded, or the reflecting surfaces cannot be kept sufficiently clean for TIR, a metal or dielectric coating can be applied to the reflecting surfaces.

Antireflection coated entrance and exit faces are also available.

Standard Specifications:

Optical Material:	BK7 or Fused Silica
Dimension Tolerance:	± 0.2mm
Clear Aperture:	>80%
Deviation:	180°
Flatness:	lambda/4 at 632.8nm on big surface lambda/4 at 632.8nm on other surface
Surface Quality:	60-40 scratch and dig
Bevel:	0.2-0.5mm X 45°
Coating:	Uncoated or silver with inconel and black overpaint.



Standard Corner Cube Retroreflectors

D(mm)	H(mm)	Angle Tolerance	Material	Product Number
7.16	6.10	10 arcsec	BK7	UQT-CCRB0101
7.16	6.10	1 arc min.	Fused Silica	UQT-CCRF0102
12.70	10.16	3 arcsec	BK7	UQT-CCRB0103
12.70	10.16	1 arc min.	Fused Silica	UQT-CCRF0104
25.40	19.05	3 arcsec	BK7	UQT-CCRB0105
25.40	19.05	30 arcsec	Fused Silica	UQT-CCRF0106
38.10	29.21	3 arcsec	BK7	UQT-CCRB0107
38.10	29.21	30 arcsec	Fused Silica	UQT-CCRF0108
50.80	38.10	3 arcsec	BK7	UQT-CCRB0109
50.80	38.10	1 arc min.	Fused Silica	UQT-CCRF0110
63.50	48.26	3 arcsec	BK7	UQT-CCRB0111
63.50	48.26	1 arc min.	Fused Silica	UQT-CCRF0112
76.20	57.15	3 arcsec	BK7	UQT-CCRB0113
76.20	57.15	1 arc min.	Fused Silica	UQT-CCRF0114

Please Contact [ultiQuest](#) for other dimensions in prototype and production quantities.

NOTES!

➔ Every edge of these prisms is chamfered (beveled) for chipping prevention. The dimensions of these prisms are values

not including chamfer.

➔ Be sure to wear laser safety goggles when checking optical path and adjusting optical axis.