## RIGHT ANGLE PRISMS

## －45－45－90 degree prisms <br> －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 limi－ tations 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 sec－ tion．

Contact us for other types of prisms
e．g．trapezoidal，various isosceles，Dove，Amici，Penta，etc．


SPECIFICATIONS

| Material | BK7，FS，UV FS |
| :--- | :--- |
| Surface quality | $40-20$ scratch \＆dig |
| Surface flatness | $N / 4 @ 633 \mathrm{~nm}$ |
| Clear aperture | $80 \%$ of the face size |
| $90^{\circ}$ angle tolerance | $\pm 2$ arcmin or $\pm 5$ arcsec |
| Pyramidal tolerance | $\pm 1$ arcmin or $\pm 30$ arcsec |
| Dimensions | $\pm 0.25 \mathrm{~mm}$ |

## HOUSING

 ACCESSORIES－Prism Holders 840－0160，840－0170 See page 5.73

| Catalogue number |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BV FS | FS | Size of face， <br> A $\times$ B mm | $90^{\circ}$ angle <br> tolerance | Pyramidal <br> tolerance | Price，EUR <br> BK7 $/$ UV FS／FS |  |
| $330-0102$ | $330-1102$ | $330-3102$ | $10.0 \times 10.0$ | $2 \operatorname{arcmin}$ | $1 \operatorname{arcmin}$ | $20 / 49 / 42$ |
| $330-0152$ | $330-1152$ | $330-3152$ | $15.0 \times 15.0$ | $2 \operatorname{arcmin}$ | $1 \operatorname{arcmin}$ | $25 / 62 / 55$ |
| $330-0202$ | $330-1202$ | $330-3202$ | $20.0 \times 20.0$ | $2 \operatorname{arcmin}$ | $1 \operatorname{arcmin}$ | $31 / 75 / 69$ |
| $330-0252$ | $330-1252$ | $330-3252$ | $25.0 \times 25.0$ | $2 \operatorname{arcmin}$ | $1 \operatorname{arcmin}$ | $37 / 86 / 80$ |
| $330-0105$ | $330-1105$ | $330-3105$ | $10.0 \times 10.0$ | $5 \operatorname{arcsec}$ | $30 \operatorname{arcsec}$ | $42 / 93 / 85$ |
| $330-0155$ | $330-1155$ | $330-3155$ | $15.0 \times 15.0$ | $5 \operatorname{arcsec}$ | $30 \operatorname{arcsec}$ | $50 / 103 / 95$ |
| $330-0205$ | $330-1205$ | $330-3205$ | $20.0 \times 20.0$ | $5 \operatorname{arcsec}$ | $30 \operatorname{arcsec}$ | $57 / 116 / 106$ |
| $330-0255$ | $330-1255$ | $330-3255$ | $25.0 \times 25.0$ | $5 \operatorname{arcsec}$ | $30 \operatorname{arcsec}$ | $73 / 142 / 131$ |

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

## CORNER CUBES

## －Incident light deviates by $\mathbf{1 8 0}$ degrees independently of the angle of incidence

These prisms have 3 mirror surfaces making angles of $90^{\circ}$ to each other，juxtaposed to form the corner of a cube with the entrance face perpendicular to the cube diagonal．Respective of an incident direction，all beams are reflected back to the original direction．Corner cubes are used in high precision applications or with lasers over very long distances．These＂angle insensitive＂ mirrors therefore find frequent applications in situations where orientation is difficult or impossible to control and where a mirror would therefore be unsatisfactory．

Contact us for other types of prisms e．g．trapezoidal，various isosceles， Dove，Amici，Penta，etc．


## SPECIFICATIONS

| Material | BK7，UV FS |  |
| :---: | :---: | :---: |
| Surface quality | 60－40 scratch \＆dig |  |
| Surface flatness | N／10＠ 633 nm |  |
| Angular deviation | $\pm 5$ arcsec |  |
| Size | diameter $\mathrm{D}=22 \mathrm{~mm}$ |  |
|  | height $\mathrm{H}=17.5 \mathrm{~mm}$ |  |
| Material | Catalogue number | Price，EUR |
| BK7 | 340－0217 | 142 |
| UV FS | 340－1217 | 252 |

