



Products

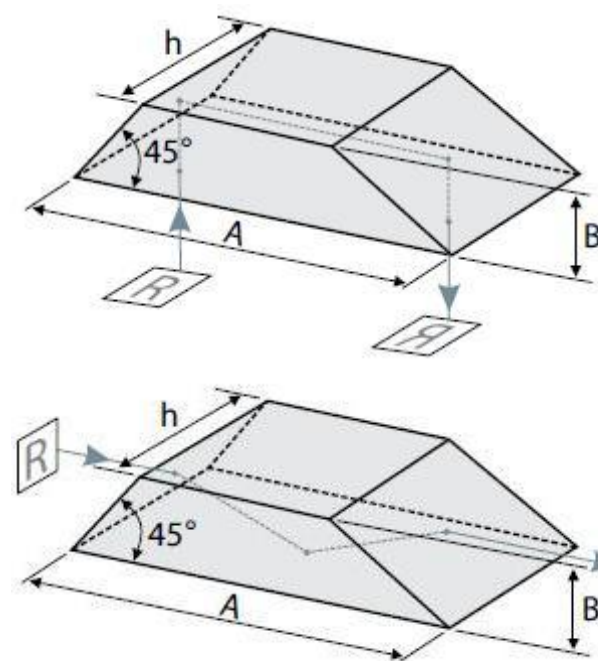
OPTICS

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- Ideal for Image rotation

- Various dielectric coatings can be deposited upon request

Standard Specifications

| | |
|----------------------|--------------------------|
| Material | BK7, UVFS |
| Dimension Tolerances | +0.0, -0.2 mm |
| Angle Tolerance | <3 arcmin |
| Surface Flatness | < $\lambda/2$ @ 632.8 nm |
| Surface Quality | 60-40 scratch & dig |
| Clear Aperture | >80% |

Dove prism is a type of reflective prism which is used to invert an image. Dove prisms are shaped from a truncated right-angle prism. A beam of light entering one of the sloped faces of the prism undergoes total internal reflection from the inside of the longest (bottom) face and emerges from the opposite sloped face. Images passing through the prism are flipped, and because only one reflection takes place, the image's handedness is changed to the opposite sense. Dove prisms have an interesting property that when they are rotated along their longitudinal axis, the transmitted image rotates at twice the rate of the prism. It is very important that the application must be used with parallel or collimated beam and the large square reflective surface should be kept very clean. Another application is used as a retroreflector. For this application it performs as a right-angle prism.

Dove Prisms

| Material | Dimensions A x B x h, mm | Coating | Ordering Code |
|----------|--------------------------|----------|---------------|
| BK7 | 21.1 x 5.0 x 5.0 | Uncoated | 14DOP-1-1 |
| | 42.3 x 10.0 x 10.0 | Uncoated | 14DOP-2-1 |
| UVFS | 21.1 x 5.0 x 5.0 | Uncoated | 14DOP-1-2 |

Ordering

| | | | |
|------------------|---|---|--|
| BK7 Dove Prisms | ▼ | 1 | |
| UVFS Dove Prisms | ▼ | 1 | |

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