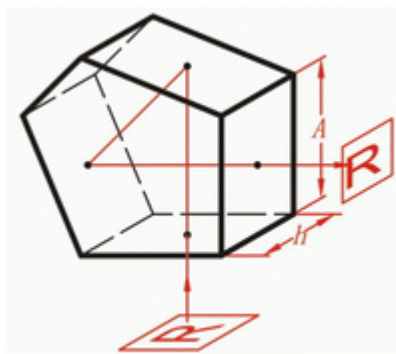


## Penta Prism



A Penta Prism deviates an input beam or image through  $90^\circ$  without inverting or reversing the image. In addition, the  $90^\circ$  beam deviation is not dependent on a precise alignment of the prism with respect to the incoming beam or image.

### Specification:

Material.....BK7 grade A optical glass

Dimension Tolerance..... $\pm 0.2\text{mm}$

$90^\circ$  Deviation Tolerance.....see table

Flatness..... $\lambda/2$  @632.8nm

Reflectivity..... $R > 95\%$  @630~680nm

Surface Quality.....60-40 scratch and dig

Chamfer..... $< 0.5\text{mm} \times 45^\circ$

### Coating:

① Entrance & Exit Surfaces: multilayer AR coating,  $R_{\text{avg}} < 0.5\%$  @630~680nm

② Reflecting Surface: Enhanced Aluminum with black paint,  $R_{\text{avg}} > 85\%$  @630~680nm

P/N	size(Axh)	deviation
20201	7x6	<60"
20202	7x6	<30"
20203	7x6	<10"
20204	7x6	<5"
20205	8x8	<60"
20206	8x8	<30"
20207	8x8	<10"
20208	8x8	<5"
20209	10x10	<60"

P/N	size(Axh)	deviation
20210	10x10	<30"
20211	10x10	<10"
20212	10x10	<5"
20213	15x15	<60"
20214	15x15	<30"
20215	15x15	<10"
20216	15x15	<5"
20217	10x10	<1"

- Dimension unit:mm
- Other sizes and coatings are available upon request.