

Penta Prisms

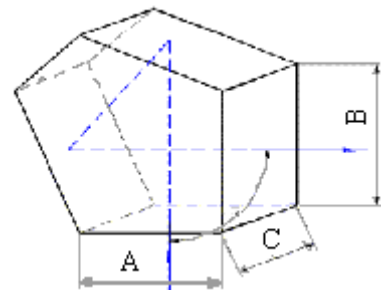
Penta prism can deviate an incident beam without inverting or reversing to 90°. The deviation angle of 90° is independent of any rotation of the prism about an axis parallel to the line of intersection of the two reflecting faces. It is commonly used in Plumb Level, Surveying, Alignment, Range finding and Optical Tooling. The reflecting surfaces of this Prism must be coated with a metallic or dielectric coating. The standard Penta Prism reflecting surfaces are coated with aluminum or enhanced aluminum.



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Specifications:

- Material: **BK7 Grade A optical glass**
- Dimension Tolerance: $\pm 0.2\text{mm}$
- 90° Deviation Tolerance : See the table
- Surface Quality: 60/40
- Flatness: $\lambda/4$ at reflection surface; $\lambda/2$ at transmission surface @632.8nm
- Coating: Reflecting surface are aluminium coated with black paint overcoat.



Input and output surfaces are MgF2 AR coated.

Size(mm)				1 min. Deviation	30 Sec. Deviation	10Sec. Deviation
A	B	C	D	Part No.	Part No.	Part No.
5	5	5	6.1	FPP1101	FPP1201	FPP1301
10	10	10	11.95	FPP1102	FPP1202	FPP1302
15	15	15	15.96	FPP1103	FPP1203	FPP1303
20	20	20	21.65	FPP1104	FPP1204	FPP1304
25	25	25	27.9	FPP1105	FPP1205	FPP1305
30	30	30	32.47	FPP1106	FPP1206	FPP1306
35	35	35	37.88	FPP1107	FPP1207	FPP1307
40	40	40	43.3	FPP1108	FPP1208	FPP1308
45	45	45	48.71	FPP1109	FPP1209	FPP1309
50	50	50	54.12	FPP1110	FPP1210	FPP1310