

Prisms

Product Information

Prisms are transparent optical elements with flat polished surfaces that refract, reflect or disperse light. They allow easy positioning within an optical system and have excellent thermal stability. A total internal reflection is possible, avoiding light loss in the optical path.

Advantages

- SCHOTT masters the entire value chain from raw glass to coated cemented prisms
- Custom designed products at competitive prices
- 1 piece through series production levels
- Coating: all substrates coated to a specific custom design
- Sub Assembly: extensive expertise in gluing and cementing to integrate prisms in custom designed hardware

Materials

- Optical glasses such as N-BK7HT, N-BAK4HT, N-SK2HT, SF57HTultra, SF6HT
- Fused silica

Manufacturing Capabilities

Attribute	Commercial Quality	Precision Quality	Ultra Precision Quality
Size	10 to 200 mm	10 to 200 mm	10 to 200 mm
Size Tolerance*	± 0.2 mm	± 0.1 mm	± 0.05 mm
Angle Tolerance*	< 1.5 arc minutes	< 1 arc minutes	< 10 arc seconds
Surface Accuracy*	1 λ	λ/4	λ/10
Surface Quality (Scratch & Dig)*	80/50	40/20	20/10
AR Coating*	Ravg < 1.5 %	Ravg < 0.5 %	Custom designed
Order Quantity*	From 1 piece to series production*		
Delivery Time*	6–10 weeks	6–10 weeks	6–10 weeks

*Depending on customer's specification. Please call sales representative.



Examples of Products

- Right angle prisms
- Rhomboid prisms
- Pentaprisms
- TIR prism
- Cube beamsplitter



Advanced Optics
 SCHOTT North America, Inc.
 400 York Avenue
 Duryea, PA 18642
 USA
 Phone +1 570/457-7485
 Fax +1 570/457-7330
 info.optics@us.schott.com

www.us.schott.com/advanced_optics

SCHOTT
 glass made of ideas