PRISMS

YOUR ONE-STOP SOURCE FOR PRISMS

From prototype to production, Rainbow Research Optics, Inc (RROI) manufactures and coats prisms.

- ✓ In-house grinding, polishing, activated bonding, machining, and coating
- ✓ Low distortion (down to $\lambda/10$ @ 633 nm) and beam deviation tolerances (arc sec range)
- ✓ Thin film engineering and optical assemblies

Right angle prisms: • Right Angle Prisms (https://www.rr-optics.com/prisms/#rightangleprism) • Right Angle Bending Prisms (https://www.rr-optics.com/prisms/#rightanglebendingprism) • Right Angle Folding Prisms (https://www.rr-optics.com/prisms/#rightanglefoldingprism)

Other prisms: • Isosceles Brewster Prisms (https://www.rr-optics.com/prisms/#isoscelesbrewsterprism) • Rhomboid Prisms (https://www.rr-optics.com/prisms/#rhomboidprism) • Equilateral Dispersing Prisms (https://www.rr-optics.com/prisms/#equilateraldispersingprism) • Porro Prisms (https://www.rr-optics.com/prisms/#porroprism) • Littrow Prisms (https://www.rr-optics.com/prisms/#littrowprism) • Penta Prisms (https://www.rr-optics.com/prisms/#cornercubeprism) • Dove Prisms (https://www.rr-optics.com/prisms/#doveprism)

STANDARD PRISMS

Customization is available beyond what's listed. <u>Contact us (https://www.rr-optics.com/contact-page/)</u> with your requirements.

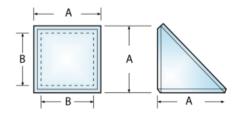
RIGHT ANGLE PRISMS (part code: RAP)

Substrate: SUPRASIL 1, UV Fused Silica, BK7, or SF2

Dimension Tolerance: +0.0/-0.20 mm **Angular Deviation**: < 3 arc min.

Clear Aperture: > 85% of central circular dimension

Edge Bevel: 0.3 mm face width at 45°





RIGHT ANGLE BENDING PRISMS (part code: BRP)

Substrate: SUPRASIL 1, UV Fused Silica, BK7, or SF2

Dimension Tolerance: +0.0/-0.20 mm

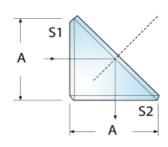
Angular Deviation: < 3 arc min.

S1 and S2 AR Coating: Single Wavelength AR R < 0.25%,

Broadband AR Ravg < 0.50%

Clear Aperture: > 85% of central circular dimension

Edge Bevel: 0.3 mm face width at 45°





(part code: FRP)

RIGHT ANGLE FOLDING PRISMS

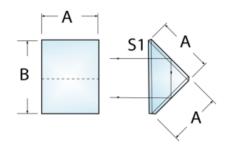
Substrate: UV Fused Silica or BK7 **Dimension Tolerance**: +0.0/-0.20 mm **Angular Deviation**: < 3 arc min.

S1 and S2 AR Coating: Single Wavelength AR R < 0.25%,

Broadband AR Ravg < 0.50%

Clear Aperture: > 85% of central circular dimension

Edge Bevel: 0.3 mm face width at 45°





(part code: IBP)

ISOSCELES BREWSTER PRISMS

Substrate: SUPRASIL 1, UV Fused Silica, or SF10

Dimension Tolerance: +0.0/-0.20 mm

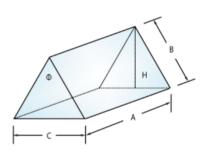
Angular Deviation: < 10 arc min. Surface Figure: λ/10 @ 633 nm

Surface Quality: 10-5 (SUPRASIL 1 and UV Fused Silica), 20-

10 (SF10)

Clear Aperture: > 85% of central circular dimension

Edge Bevel: 0.3 mm face width at 45°





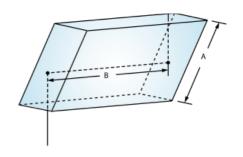
RHOMBOID PRISMS (part code: RBP)

Substrate: UV Fused Silica or BK7 **Dimension Tolerance**: +0.0/-0.20 mm

Angular Deviation: < 3 arc min. **Surface Figure:** λ/10 @ 633 nm

Clear Aperture: > 85% of central circular dimension

Edge Bevel: 0.3 mm face width at 45°





EQUILATERAL DISPERSING PRISMS

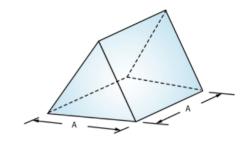
(part code: EDP)

Substrate: UV Fused Silica or BK7 **Dimension Tolerance**: +0.0/-0.20 mm

Angular Deviation: < 3 arc min. Surface Figure: $\lambda/8$ @ 633 nm

Clear Aperture: > 85% of central circular dimension

Edge Bevel: 0.3 mm face width at 45°



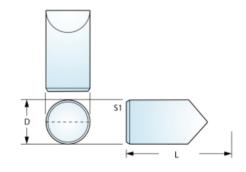


Porro Prisms (part code: PRP)

Substrate: UV Fused Silica, BK7, or SF2
Dimension Tolerance: +0.0/-0.20 mm
Angular Deviation: ≤ 10 arc min.
Surface Figure: λ/10 @ 633 nm

Clear Aperture: > 85% of central circular dimension

Edge Bevel: 0.3 mm face width at 45°





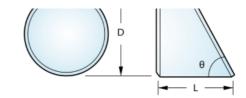
LITTROW PRISMS (part code: LOP)

Substrate: UV Fused Silica

Dimension Tolerance: +0.0/-0.20 mm Angular Deviation: ≤ 10 arc min. Surface Figure: λ/10 @ 633 nm

Clear Aperture: > 85% of central circular dimension

Edge Bevel: 0.3 mm face width at 45°





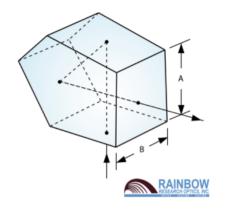
Penta Prisms (part code: PTP)

Substrate: BK7

Dimension Tolerance: +0.0/-0.20 mm Angular Deviation: ≤ 10 arc min. Surface Figure: λ/4 @ 633 nm

Clear Aperture: > 85% of central circular dimension

Edge Bevel: 0.3 mm face width at 45°



CORNER CUBE PRISMS (part code: CCP)

Substrate: BK7A

Dimension Tolerance: +0.0/-0.20 mm

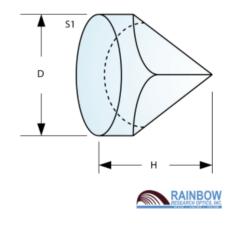
Beam Deviation: 180ŰÅ ± 2, 5, or 10 arc sec.

Surface Figure: $\lambda/8 @ 633 \text{ nm}$

Surface Quality: 40-20

Clear Aperture: > 85% of central circular dimension

Edge Bevel: 0.3 mm face width at 45°



Dove Prisms (part code: DOP)

Substrate: UV Fused Silica or BK7 **Dimension Tolerance**: +0.0/-0.20 mm

Angular Deviation: ≤ arc min. Surface Figure: λ/4 @ 633 nm

Clear Aperture: > 85% of central circular dimension

Edge Bevel: 0.3 mm face width at 45°







GET A FREE QUOTE TODAY

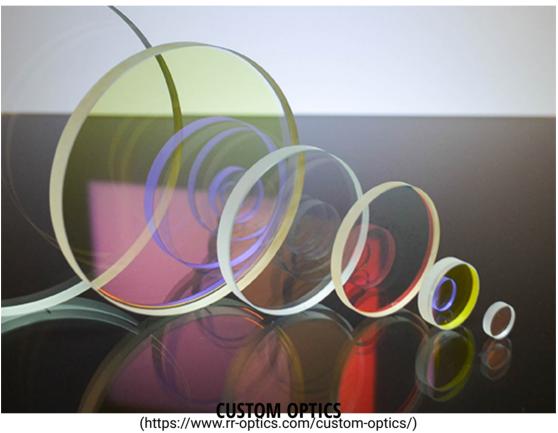
Send us your requireme	ents below and we w	ill respond quickly.	
Your Info.			
Name*		Company	
Phone		E-mail*	
PRODUCT DETAILS			
Fill in fields if applicable	e.		
Part Name or Part Code*	Material*	Quantity*	Delivery Time
	Diameter	Thickness	Length
Width	S1 Raidus	Parallelism or Wedge	Flatness/Irregularity @633nm
Surface Quality (Scratch/Dig)			
Coating Requirements			
Ourerious & Comme			
QUESTIONS & COMMENTS			

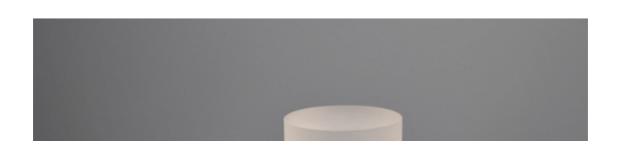
Any additional product details or questions?

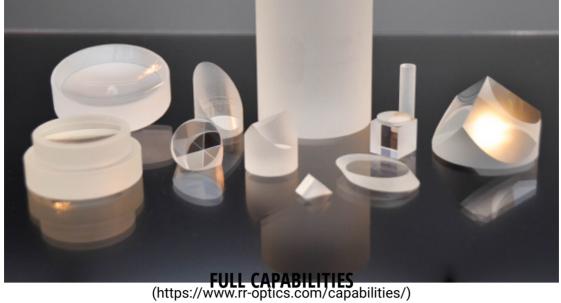
Upload Your File Choose File No file chosen Upload Your File Choose File No file chosen Upload Your File Choose File No file chosen

Submit

Rainbow Research Optics, Inc (RROI) is ISO 9001:2015 Certified and ITAR Registered









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