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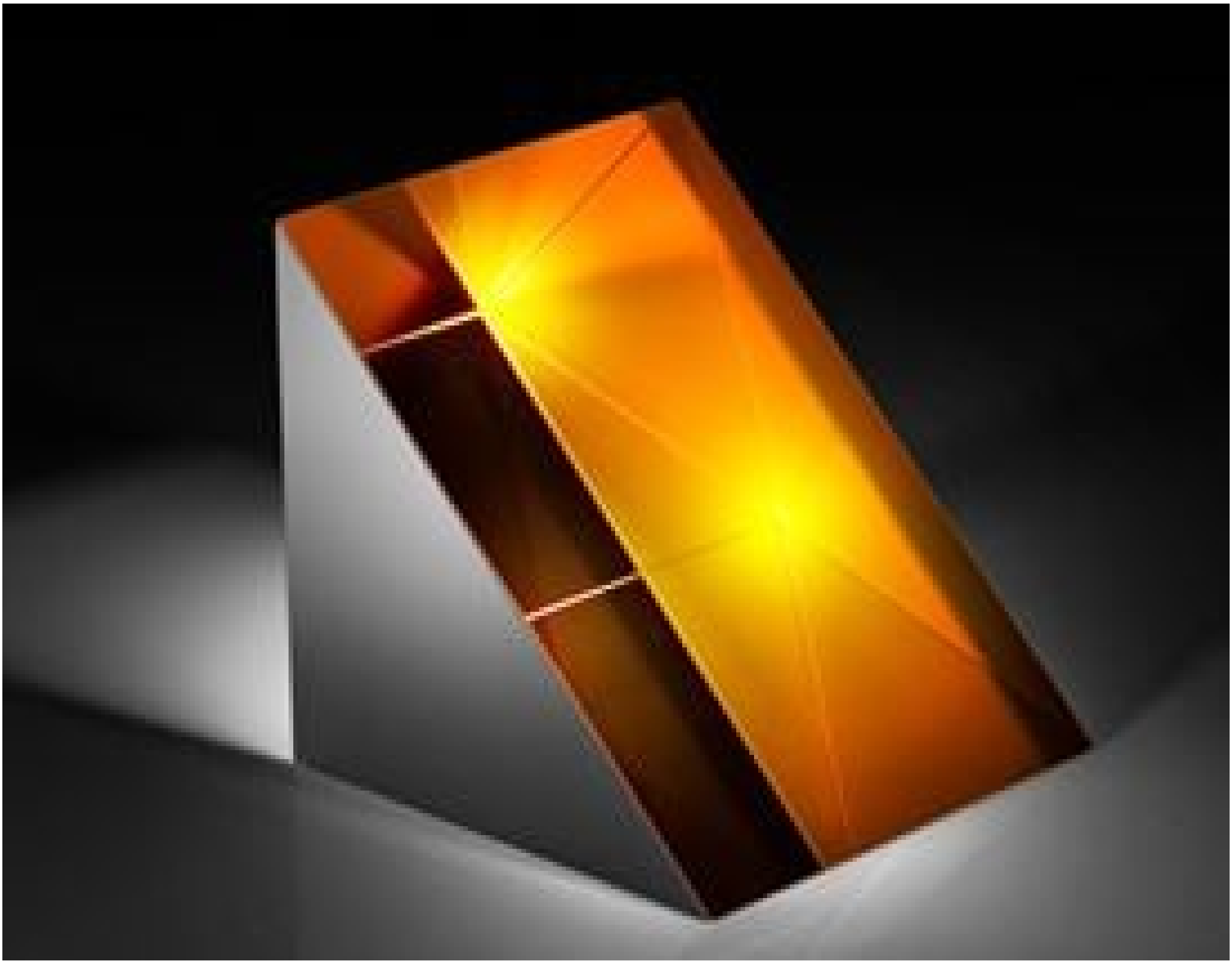
Calcium Fluoride, 38.1mm, Uncoated, ISP Optics IR Right Angle Prism | CF-RP-38

See More by ISP Optics



Infrared (IR) Right Angle Prisms

Stock **#25-039** CLEARANCE **3 In Stock**

- 1 + S$2,352.00

ADD TO CART

Volume Pricing	
Qty 1-5	**S$2,352.00** each
Qty 6-25	**S$1,890.00** each
Qty 26-49	**S$1,764.00** each
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Product Downloads

General

Type:
Right Angle Prism

Model Number:
CF-RP-38

Physical & Mechanical Properties

Dimensional Tolerance (mm):

±0.25

Clear Aperture (%):

85.00

Length of Hypotenuse (mm):

53.88

Length of Legs (mm):

38.10

Optical Properties

Coating:

Uncoated

Substrate:

Calcium Fluoride (CaF_2)

Surface Quality:

40-20

Angle Tolerance (arcmin):

±10

Image Orientation:

Left-Handed

Ray Deviation (°):

90

Wavelength Range (nm):

200 - 7000

Wavelength Range (µm):

0.2 - 7

Surface Flatness (P-V):

2λ

Regulatory Compliance

RoHS 2015:

Compliant

Certificate of Conformance:

View

Reach 240:

Compliant

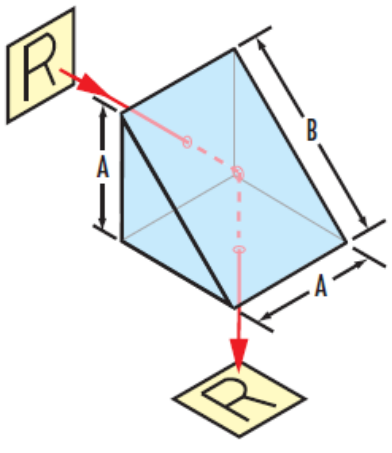
Product Details

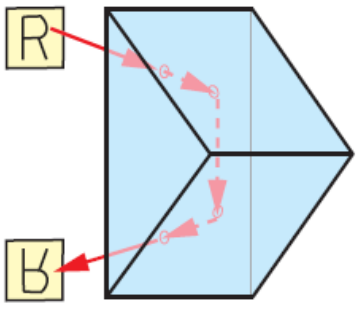
- CaF_2, Ge, and ZnSe Substrates
- Ray Deviation of 90°
- Ideal for Use with Collimated Sources
- Additional Infrared Optics Available

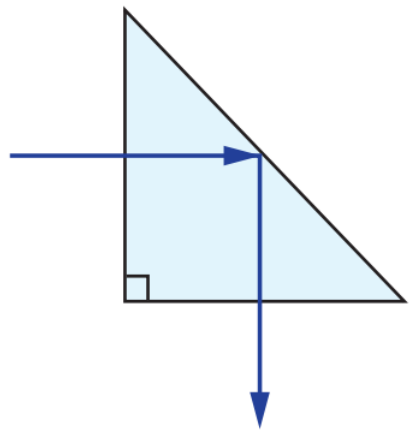
ISP Optics Infrared (IR) Right Angle Prisms provide 90° or 180° redirection of laser beam or image paths depending on the input prism surface. Available with calcium fluoride (CaF_2), germanium (Ge), or zinc selenide (ZnSe) substrates, these right-angle prisms are ideal for a range of IR laser and imaging applications. CaF_2 offer a low refractive index and broad transmission range from 0.2 – 7µm, making it useful for applications requiring high transmission from the UV through the IR. Ge is transmissive from 2 – 14µm with a high index of 4.002 at 11µm and is used in applications where the optical path length needs to be maximized. ZnSe has high, even transmission from 0.6 - 18µm and is typically integrated with CO_2 laser systems that feature a 632.8nm HeNe alignment laser and 10.6µm output beam. ISP Optics Infrared (IR) Right Angle Prisms can be used in combination for beam/image displacement.

Note: Special care should be taken when handling Zinc Selenide as it is a toxic material. Always wear rubber or plastic gloves to avoid risk of contamination.

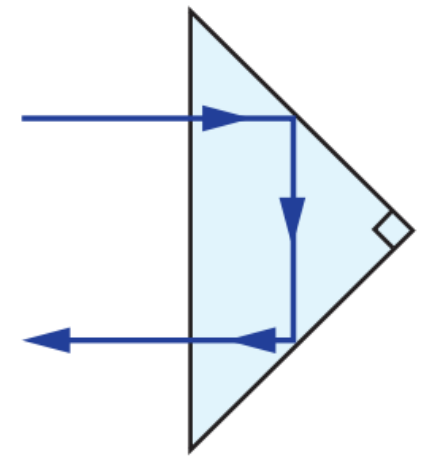
Technical Information







Right Angle Prism Ray Path



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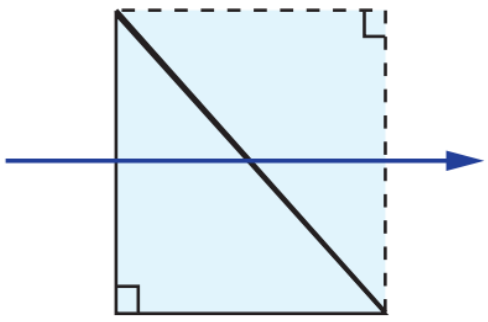
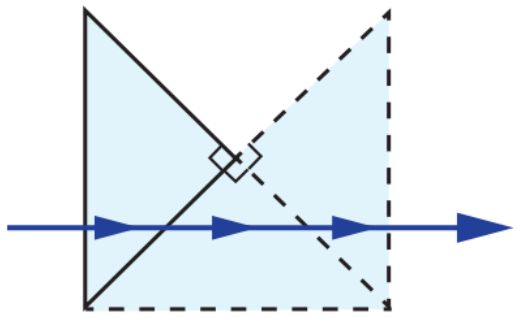


Right Angle Prism Tunnel Diagram



Right Angle Prism Tunnel Diagram

Special Handling

These optics require special handling to avoid damage and ensure long-term performance. Proper handling, cleaning, and storage are essential to maintain optical quality. Explore our **Optics Cleaning Resources** for step-by-step guides and best practices. For personalized assistance, **Email us** or **Chat** with our technical support team.

Component Handling Tools

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