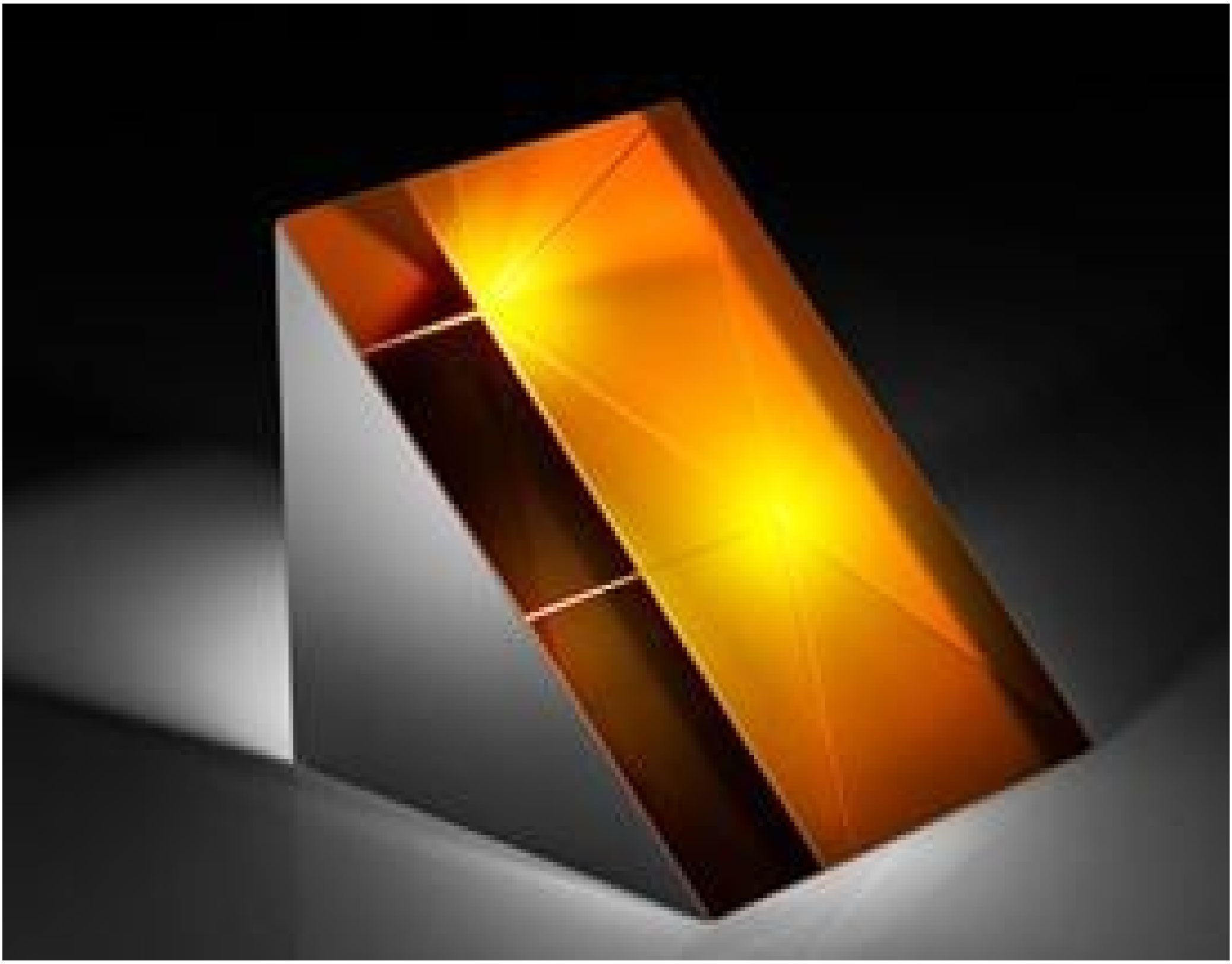
See all 5 Products in Family

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 +

A$2,688.00

ADD TO CART

Volume Pricing	
Qty 1-5	**A$2,688.00** each
Qty 6-25	**A$2,160.00** each
Qty 26-49	**A$2,016.00** each
Need More?	Request Quote

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

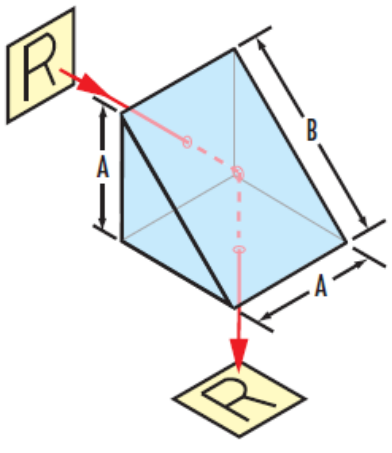
Product Details

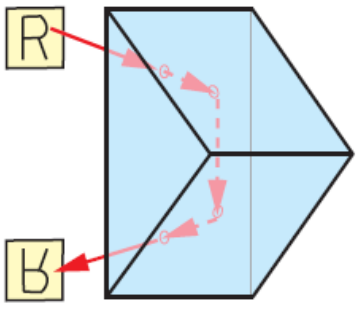
- CaF_2, Ge, and ZnSe Substrates
- Ray Deviation of 90°
- Ideal for Use with Collimated Sources
- Additional Infrared Optics Available

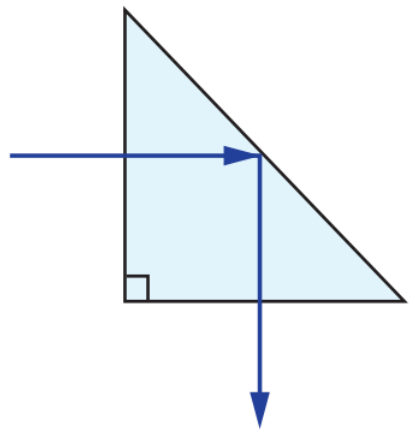
ISP Optics Infrared (IR) Right Angle Prisms provide 90° or 180° redirection of laser beam or image paths depending on the input prism surface. Available with calcium fluoride (CaF_2), germanium (Ge), or zinc selenide (ZnSe) substrates, these right-angle prisms are ideal for a range of IR laser and imaging 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.

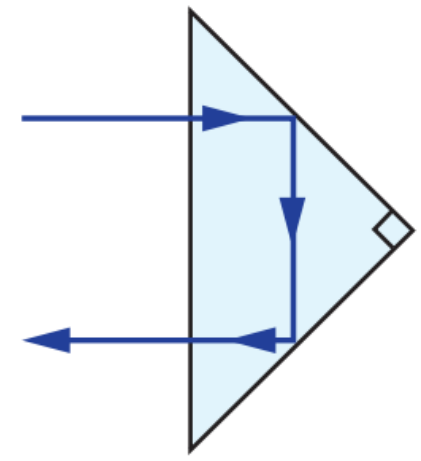
Technical Information



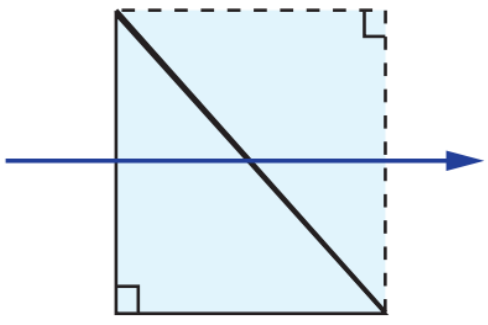




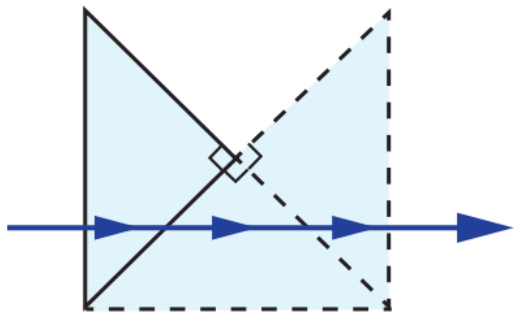
Right Angle Prism Ray Path



Right Angle Prism Ray Path



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

;