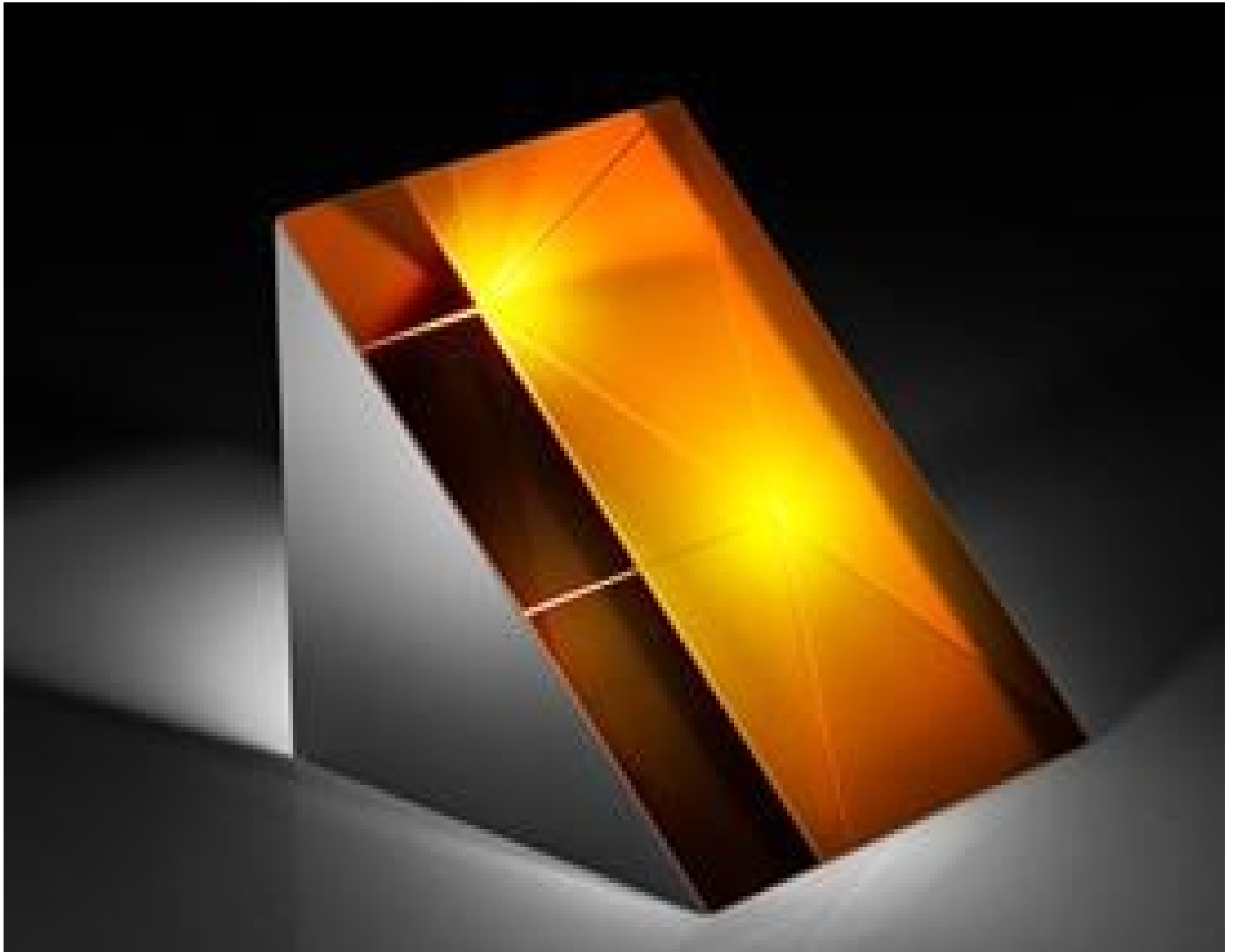


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# Calcium Fluoride, 12.7mm, Uncoated, ISP Optics IR Right Angle Prism | CF-RP-12

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Infrared (IR) Right Angle Prisms

Stock **#19-706** CLEARANCE **4 In Stock**

S\$1,582<sup>00</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-5	S\$1,582.00 each
Qty 6-25	S\$1,267.00 each
Qty 26-49	S\$1,190.00 each
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Product Downloads

**General**

Type: Right Angle Prism

Model Number: CF-RP-12

**Physical & Mechanical Properties**

Dimensional Tolerance (mm):

±0.25

Clear Aperture (%):

85.00

Length of Hypotenuse (mm):

18.00

Length of Legs (mm):

12.70

### Optical Properties

Coating:

Uncoated

Substrate:

Calcium Fluoride (CaF<sub>2</sub>)

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

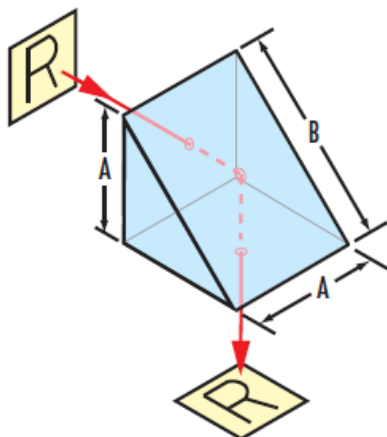
## Product Details

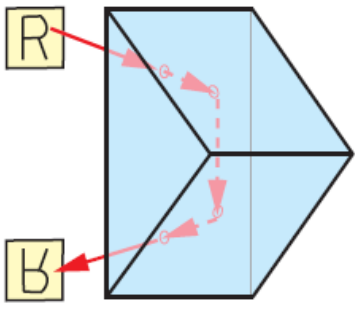
- CaF<sub>2</sub>, Ge, and ZnSe Substrates
- Ray Deviation of 90°
- Ideal for Use with Collimated Sources
- Additional [Infrared Optics](#) Available

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<sub>2</sub>), germanium (Ge), or zinc selenide (ZnSe) substrates, these right-angle prisms are ideal for a range of IR laser and imaging applications. CaF<sub>2</sub> 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<sub>2</sub> 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

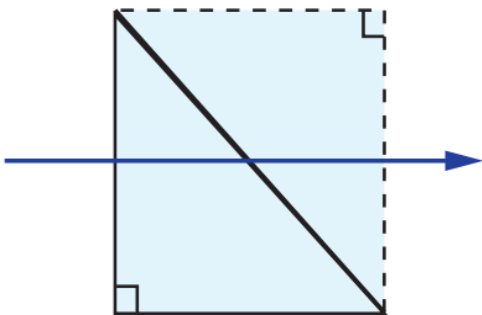




*Right Angle Prism Ray Path*



*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**

