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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**

⊖ 1 ⊕ €1.130<sup>00</sup>

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Volume Pricing	
Qty 1-5	€1.130,00 each
Qty 6-25	€905,00 each
Qty 26-49	€850,00 each
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ⓘ Prices shown are exclusive of VAT/local taxes

## Product Downloads

### General

Right Angle Prism **Type:**  
CF-RP-12 **Model Number:**

### Physical & Mechanical Properties

±0.25	<b>Dimensional Tolerance (mm):</b>
85.00	<b>Clear Aperture (%):</b>
18.00	<b>Length of Hypotenuse (mm):</b>
12.70	<b>Length of Legs (mm):</b>

## Optical Properties

Uncoated	<b>Coating:</b>
<a href="#">Calcium Fluoride (CaF<sub>2</sub>)</a>	<b>Substrate:</b> <input type="checkbox"/>
40-20	<b>Surface Quality:</b>
±10	<b>Angle Tolerance (arcmin):</b>
Left-Handed	<b>Image Orientation:</b>
90	<b>Ray Deviation (°):</b>
200 - 7000	<b>Wavelength Range (nm):</b>
0.2 - 7	<b>Wavelength Range (µm):</b>
2λ	<b>Surface Flatness (P-V):</b>

## Regulatory Compliance

<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>
<a href="#">Compliant</a>	<b>Reach 240:</b>

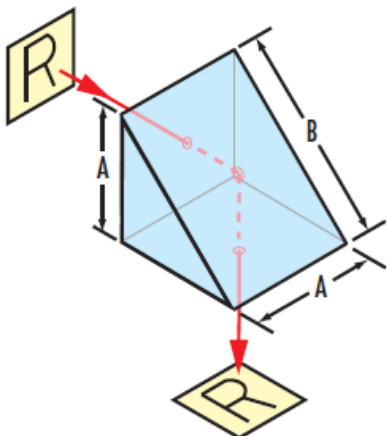
## Product Details

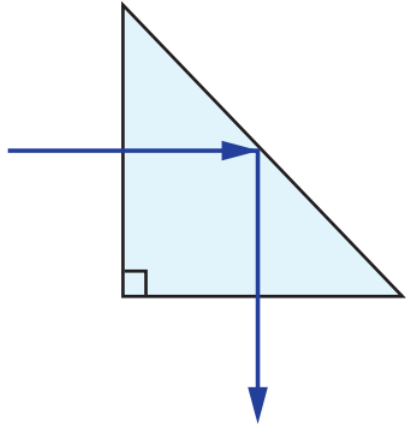
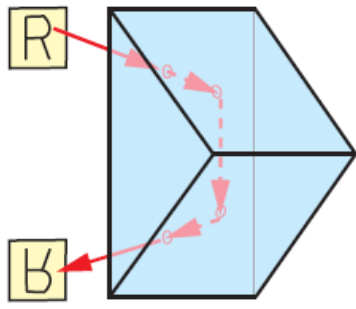
- CaF<sub>2</sub>, Ge, and ZnSe Substrates
- Ray Deviation of 90°
- Ideal for Use with Collimated Sources
- Additional [Infrared Optics](#) Available

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.

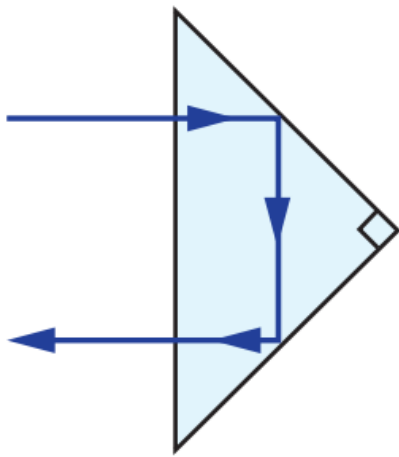
**Note:** Special care should be taken when handling Zinc Selenide as it is a toxic material. Always wear rubber or plastic gloves to avoid risk of contamination.

## Technical Information

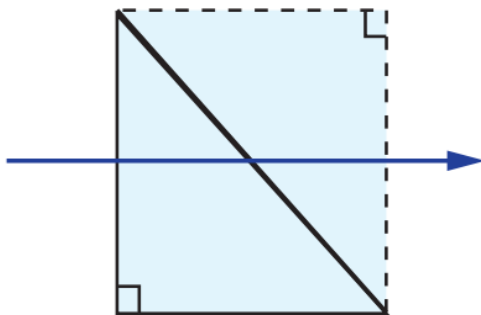




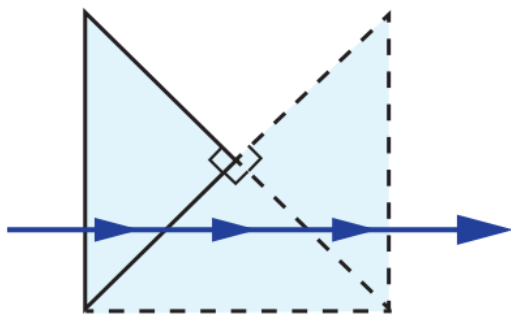
Right Angle Prism Ray Path



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

