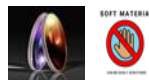


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# 25.4mm Dia. x 152.4mm FL, Uncoated, ISP Optics Barium Fluoride (BaF<sub>2</sub>) DCX Lens | BF-BX-25-150

See More by [ISP Optics](#)



Stock #24-740 **CLEARANCE** 1 In Stock

- 1 + £354.<sup>40</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-9	£354.40 each
Qty 10+	£319.20 each
Need More?	<a href="#">Request Quote</a>

**!** Prices shown are exclusive of VAT/local taxes

## Product Downloads

### General

Double-Convex Lens **Type:**

BF-BX-25-150 **Model Number:**

## Physical & Mechanical Properties

25.40 +0.00/-0.13 **Diameter (mm):**

<3 **Centering (arcmin):**

Protective as needed **Bevel:**

3.20 ±0.20 **Center Thickness CT (mm):**

2.00 **Edge Thickness ET (mm):**

22.86 **Clear Aperture CA (mm):**

## Optical Properties

150.00 @5µm **Effective Focal Length EFL (mm):**

Uncoated **Coating:**

[Barium Fluoride \(BaF<sub>2</sub>\)](#) **Substrate:**

60-40 **Surface Quality:**

λ **Irregularity (P-V) @ 632.8nm:**

134.90 **Radius R<sub>1</sub> (mm):**

134.9 **Radius R<sub>2</sub> (mm):**

5.91 **f#:**

±2 **Focal Length Tolerance (%):**

0.08 **Numerical Aperture NA:**

200 - 12000 **Wavelength Range (nm):**

## Regulatory Compliance

[Compliant](#) **RoHS 2015:**

[View](#) **Certificate of Conformance:**

[Compliant](#) **Reach 240:**

## Product Details

- Excellent Transmission from 0.2 - 12µm
- Provide High Transmission without AR Coatings
- Ideal for Infrared Spectroscopy and Infrared Imaging Applications

ISP Optics Barium Fluoride (BaF<sub>2</sub>) Double-Convex (DCX) Lenses are ideal for infrared spectroscopy and infrared imaging applications requiring high transmission from 0.2 – 12µm. Barium Fluoride features a low index of refraction, enabling excellent transmission from the Vacuum-UV (VUV) to the Long-Wave Infrared (LWIR) without the need for Anti-Reflection (AR) coatings. These lenses also provide higher resistance to high-energy radiation than Calcium Fluoride, even though they have similar physical properties. ISP Optics Barium Fluoride (BaF<sub>2</sub>) Double-Convex (DCX) Lenses can be used up to 800°C in a dry environment, but prolonged exposure to moisture can degrade transmission in the ultraviolet range.

**Note:** These lenses are very sensitive to thermal shock.

## 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

