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25.4mm Dia. x 250mm FL, Uncoated, ISP Optics Barium Fluoride (BaF₂) PCX Lens | BF-PX-25-250

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Stock **#24-751** CLEARANCE CONTACT US

⊖ 1 ⊕ £189⁰⁰

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Volume Pricing	
Qty 1-9	£189.60 each
Qty 10+	£170.40 each
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Plano-Convex Lens **Type:**

BF-PX-25-250 **Model Number:**

Physical & Mechanical Properties

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

<3 **Centering (arcmin):**

2.70 ±0.20 **Center Thickness CT (mm):**

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

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

Protective as needed **Bevel:**

Optical Properties

250.00 @5μm **Effective Focal Length EFL (mm):**

Uncoated **Coating:**

Barium Fluoride (BaF₂) **Substrate:**

60-40 **Surface Quality:**

λ **Irregularity (P-V) @ 632.8nm:**

±2 **Focal Length Tolerance (%):**

112.72 **Radius R₁ (mm):**

9.84 **f#:**

0.05 **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
- Provides High Transmission without AR Coatings
- 25 – 500mm Focal Lengths Available

ISP Optics Barium Fluoride (BaF₂) Plano-Convex (PCX) Lenses are ideal for collecting and focusing light in ultraviolet, visible, and infrared applications. Barium Fluoride has similar physical properties to Calcium Fluoride, but provides a higher resistance to high-energy radiation. However, it is less resistant to water and prolonged exposure to moisture can degrade transmission in the ultraviolet range. ISP Optics Barium Fluoride (BaF₂) Plano-Convex (PCX) Lenses feature a low index of refraction that enables excellent transmission from 0.2- 12μm without the need for Anti-Reflection (AR) coatings. These lenses are available in standard imperial sizes with focal length options from 25 – 500mm.

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