

**TECHSPEC® 12.5mm Dia. x 50mm FL Uncoated Calcium Fluoride PCX Lens**



TECHSPEC Calcium Fluoride Plano-Convex (PCX) Lenses

Stock **#88-162** **15 In Stock**

MRP ₹17,555

Price inclusive of all taxes

**ADD TO CART**

Volume Pricing	
Qty 1-5	₹17,555 each
Qty 6-25	₹14,024 each
Qty 26-49	₹13,116 each
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Product Downloads

**General**

Plano-Convex Lens **Type:**

**Physical & Mechanical Properties**

12.50 +0.00/-0.10 **Diameter (mm):**

**Centering (arcmin):**

<3

Center Thickness CT (mm):  
2.00 ±0.1

Edge Thickness ET (mm):  
1.14

Clear Aperture CA (mm):  
11.25

Bevel:  
Protective as needed

## Optical Properties

Effective Focal Length EFL (mm):  
50.00 @266nm

Back Focal Length BFL (mm):  
48.63

Coating:  
Uncoated

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

Surface Quality:  
40-20

Power (P-V) @ 632.8nm:  
λ

Irregularity (P-V) @ 632.8nm:  
λ/2

Radius R<sub>1</sub> (mm):  
23.11

f#:  
4.00

Numerical Aperture NA:  
0.13

Wavelength Range (nm):  
200 - 7000

Axis Orientation:  
Random

## Regulatory Compliance

RoHS 2015:  
[Compliant](#)

Reach 219:  
[Compliant](#)

Certificate of Conformance:  
[View](#)

Country of Origin:  
South Korea

Imported By:  
Edmund Optics India Private Limited  
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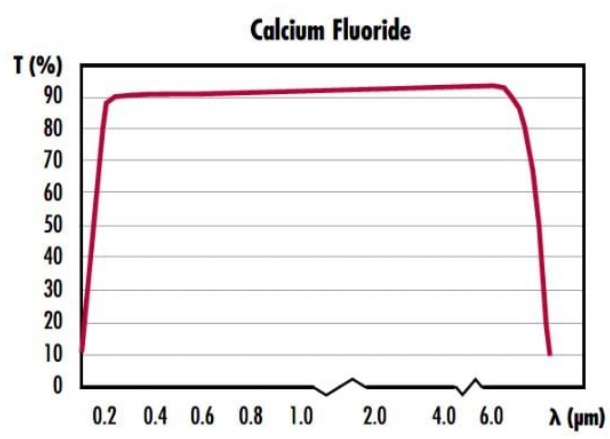
## Product Details

- Low Index of Refraction
- Vacuum Grade UV Substrate
- Uncoated, VIS-NIR, and NIR II Broadband AR Coating Options

TECHSPEC® Calcium Fluoride Plano-Convex Lenses are ideal for demanding applications that require superior performance from the ultraviolet through the mid-wave infrared spectra. The lenses' low refractive index, high laser damage threshold, and low axial and radial-stress birefringence are highly suitable for use with Excimer lasers or for integration into infrared systems. Additionally, calcium fluoride features low solubility and offers superior hardness to comparable fluoride-based substrates, making these PCX lenses capable of withstanding harsh environments and exposure to the elements. TECHSPEC® Calcium Fluoride Plano-Convex Lenses are offered in 12.5mm, 25mm, and 50mm diameters. The lenses are available uncoated, VIS-NIR, or with NIR II broadband AR coating options.

**Note:** Calcium fluoride is a relatively soft optical material and requires careful handling as it is very easily scratched. Calcium fluoride is also susceptible to thermal shock.

## Technical Information



## 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

## Compatible Mounts

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