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**TECHSPEC®**

25mm Dia. x 100mm F

Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.

Select Your Country/Region: European Union

Submit



TECHSPEC Calcium Fluoride Plano-Convex (PCX) Lenses

Stock #88-166 12 In Stock

1

€210<sup>.00</sup>

ADD TO CART

Volume Pricing	
Qty 1-5	€210,00 each
Qty 6-25	€168,00 each
Qty 26-49	€158,00 each
Need More?	<a href="#">Request Quote</a>

Prices shown are exclusive of VAT/local taxes

Product Downloads

- STEP:step
- PDF Drawing:pdf
- IGES:igs
- Zemax:zar
- Zemax:zmx
- eDrawing:eprt
- Code V:seq
- EO Spec Sheet
- [Download All](#)

General

Type: Plano-Convex Lens

Physical & Mechanical Properties

Diameter (mm): 25.00 +0.00/-0.10

Centering (arcmin): <3

Center Thickness CT (mm): 4.00 ±0.1

Edge Thickness ET (mm): 2.28

Clear Aperture CA (mm): 22.5

Bevel: Protective as needed

Optical Properties

Effective Focal Length EFL (mm): 100.00 @ 266nm

Back Focal Length BFL (mm): 97.27

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): 46.21

f/#: 4.00

Numerical Aperture NA: 0.13

Wavelength Range (nm): 200 - 7000

Axis Orientation: Random

Regulatory Compliance

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## Product Details

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

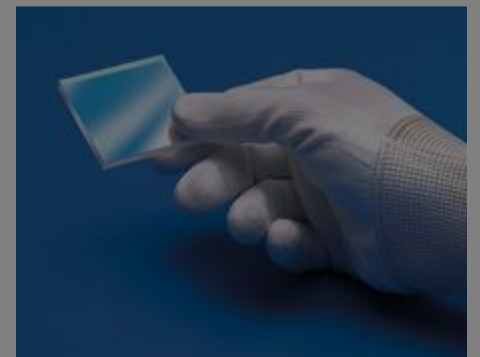
TECHSPEC® Calcium Fluoride Plano-Convex Lenses are ideal for demanding applications that require superior performance from the ultraviolet through the mid-wave infrared spectra. The lenses' low refractive index, high laser damage threshold, and low axial and radial-stress birefringence are highly suitable 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

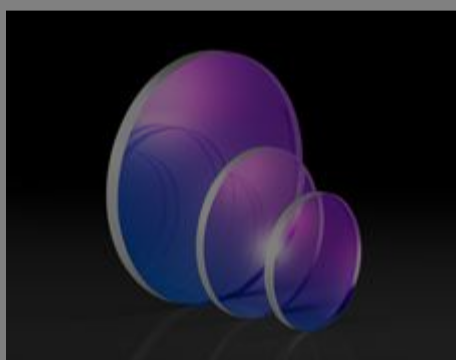
### Special Handling

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.

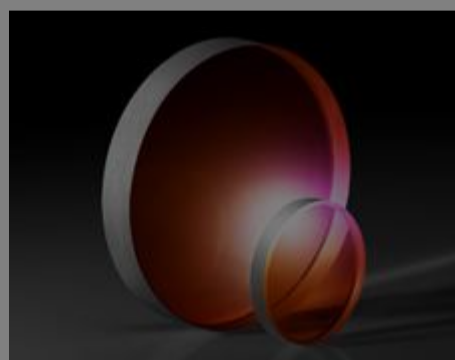


**Component Handling Tools**

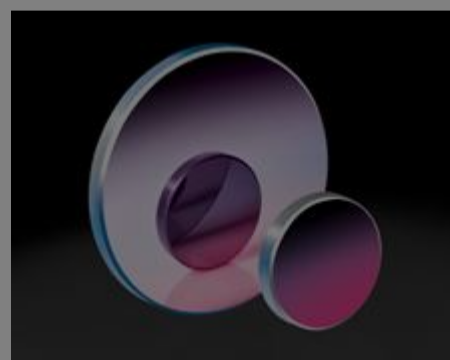
### Related Products



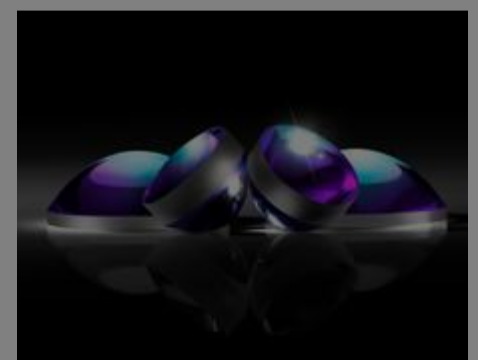
Calcium Fluoride (CaF<sub>2</sub>) Windows



ISP Optics Calcium Fluoride (CaF<sub>2</sub>) Wedged Windows



Infrared (IR) Lenses



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

### Frequently Purchased Together



#32-000 - 18.0mm Dia. x 36.0mm FL  
Uncoated, Plano-Convex Lens  
**€32,25**



#33-259 - 12.7mm Dia f/0.5  
VIS Coated, Molded Acrylic  
Aspheric Lens  
**€74,00**



#34-302 - 375nm 25mm Dia., High  
Performance Longpass Filter  
**€275,00**



#43-408-577 - 1" Dia. Protected  
Silver, λ/20 Flat Fused Silica  
**€240,00**

Qty



Qty



Qty










































Qty



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	Title				Buy
	 25.0/25.4mm Optic Dia., SM1 Thin Mount, M4	Fixed	#13-787	€21,00 Request Quote	4 In Stock <input type="text" value="1"/> 
	 25.0/25.4mm Optic Dia., SM1 Thin Mount, 8-32	Fixed	#13-788	€21,00 Request Quote	20+ In Stock <input type="text" value="1"/> 
	 25.0mm Optic Dia., Optic Mount	Fixed	#64-560	€32,75 Request Quote	CONTACT US <input type="text" value="1"/> 
	 25mm Thin Inner Single Optic Mount	Fixed	#38-755	€41,00 Request Quote	14 In Stock <input type="text" value="1"/> 
	 25.0/25.4mm Optic Dia., L-Slot Direct Mount	Fixed	#36-410	€68,00 Request Quote	15 In Stock <input type="text" value="1"/> 
	 25.0/25.4mm Optic Dia., Side Flange Direct Mount	Fixed	#36-414	€71,00 Request Quote	20+ In Stock <input type="text" value="1"/> 
	 25mm Thin Inner Pair Optic Mounts	Fixed	#11-052	€80,50 Request Quote	3 In Stock <input type="text" value="1"/> 
	 25mm Thick Inner Pair Optic Mounts	Fixed	#11-054	€80,50 Request Quote	5 In Stock <input type="text" value="1"/> 
	 25/25.4mm Diameter, C-Mount Thin Optic Mount	Fixed	#56-353	€99,00 Request Quote	20+ In Stock <input type="text" value="1"/> 
	 25.0/25.4mm Optic Dia., L-Slot and Rotation Direct Mount	Adjustable - Rotary	#36-411	€102,00 Request Quote	5 In Stock <input type="text" value="1"/> 
	 25.0/25.4mm Optic Dia., X-Y Translating Optic Mount	Adjustable - Linear (XY)	#62-956	€276,00 Request Quote	CONTACT US <input type="text" value="1"/> 
	 25.0/25.4mm Optic Dia., X-Y-Z Translating Optic Mount	Adjustable - Linear (XYZ)	#62-959	€540,00 Request Quote	6 In Stock <input type="text" value="1"/> 
	 25.0/25.4mm Optic Dia., 5 Axes Optical Mount	Adjustable - Linear (XYZ) & Tip-Tilt	#13-776	€755,00 Request Quote	2 In Stock <input type="text" value="1"/> 

Check out our full selection of mounts [here](#).

## Resources

### Media Type

- Application Note
- Scientific Paper
- Video
- Glossary
- FAQ
- Technical Tool
- Trending in Optics

APPLICATION NOTE

Anti-Reflection

APPLICATION NOTE

Ap

APPLICATION NOTE

Understanding  
Optical  
Specifications

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APPLICATION NOTE

Lens Geometry  
Performance  
Comparison

APPLICATION NOTE

Advantages of  
Using  
Meniscus  
Lenses in...

SCIENTIFIC PAPER

Advantages of  
using  
engineered  
chalcogenide...

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