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/ [Near-IR \(NIR\) Achromatic Lens](#)

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TECHSPEC® 25mm



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Select Your Country/Region: European Union

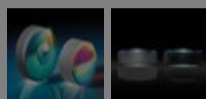
Submit

Options

1

€150^{,00}

ADD TO CART



Volume Pricing

Qty 1-5 €150,00 each

Qty 6-25 €120,00 each

Qty 26-49 €113,00 each

Need More? [Request Quote](#)

Prices shown are exclusive of VAT/local taxes

Product Downloads

- STEP:stp
- Curve:pdf
- PDF Drawing:pdf
- ISO 10110 Drawing
- IGES:igs
- Spec Sheets:pdf
- Curve (xlsx):xlsx
- Zemax:zar
- Zemax:zmx
- eDrawing:easm
- Code V:seq
- EO Spec Sheet
- [Download All](#)

General

Type: Achromatic Lens

Physical & Mechanical Properties

Diameter (mm): 25.00 +0.0/-0.025

Clear Aperture CA (mm): 24.00

Centering (arcmin): <1

Center Thickness CT (mm): 13.00 ±0.20

Center Thickness CT 1 (mm): 9.00 ±0.10

Center Thickness CT 2 (mm): 4.00 ±0.10

Edge Thickness ET (mm): 9.59

Bevel: Protective as needed

Optical Properties

Effective Focal Length EFL (mm): 45.00

Focal Length Tolerance (%): ±1

Back Focal Length BFL (mm): 37.80

Focal Length Specification Wavelength (nm): 880.00

Radius R₁ (mm): 29.01

Radius R₂ (mm): -25.53

Radius R₃ (mm): -132.92

Substrate: [N-LAK22 / N-SF6](#)

Surface Quality: 40-20

f/#: 1.8

Numerical Aperture NA:	0.28	Coating:	NIR II (750-1550nm)
Coating Specification:	$R_{abs} \leq 1.5\%$ @ 750 - 800nm $R_{abs} \leq 1.0\%$ @ 800 - 1550nm $R_{avg} \leq 0.7\%$ @ 750 - 1550nm	Power (P-V) @ 632.8nm:	1.5λ
Irregularity (P-V) @ 632.8nm:	λ/4		

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Regulatory Compliance	
RoHS 2015:	Compliant
Reach 240:	Compliant
Certificate of Conformance:	View

Need different specs or modifications?

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

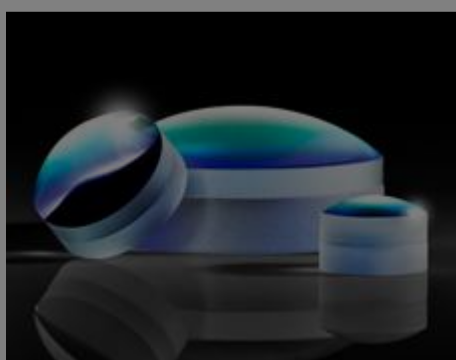
Product Details

- Designed to Give Increased Resolution and Smaller Spot Sizes for NIR Wavelengths (750-1100nm)
- Decreased Spherical Aberration for Monochromatic Sources Out to 2μm
- Broadband AR Coating has <1% Reflectivity Between 750–1550nm

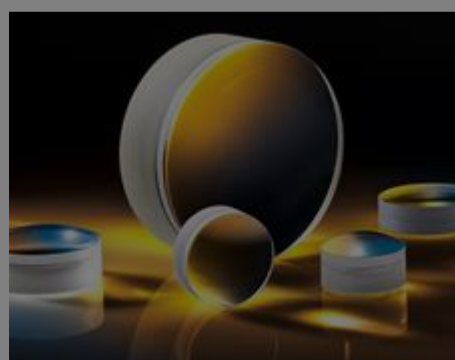
TECHSPEC® Near-IR (NIR) Achromatic Lenses are designed to provide the smallest spot size possible for polychromatic light between 750 and 1100nm. By utilizing our NIR doublets instead of standard doublets designed for the visible, the RMS spot diameter can be reduced from 43μm to 22.5μm, for example, when using polychromatic light. Spot size will be smaller when focusing on monochromatic sources. TECHSPEC Near-IR (NIR) Achromatic Lenses also reduce spherical aberration and perform superior when used with a monochromatic source up to 2μm in wavelength. Typical applications for these doublets include imaging lenses for the near infrared, focusing and expanding of NIR lasers, and focusing/collimating lenses for fiber optics and NIR LEDs.

Technical Information

Related Products



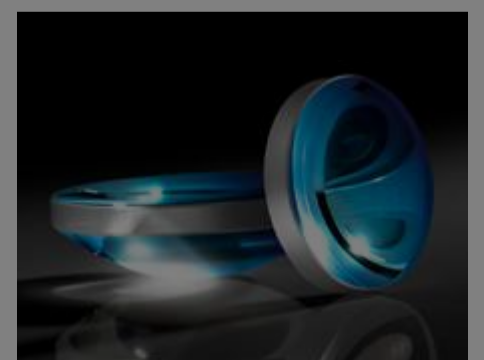
Aspherized Achromatic Lenses



VIS-NIR Coated Achromatic Lenses

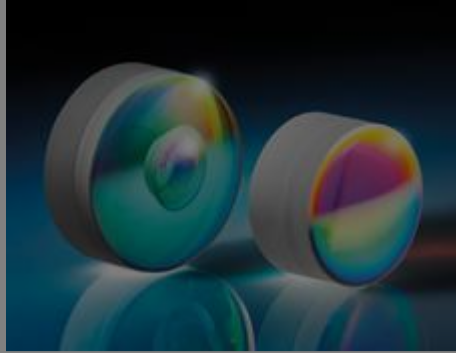


NIR I Coated Plano-Convex (PCX) Lenses



Near-Infrared (NIR) Aspheric Lenses

Frequently Purchased Together



#45-794 - 12mm Dia. x 30mm FL, NIR II Coated, Achromatic Lens
€120,00

Qty



#

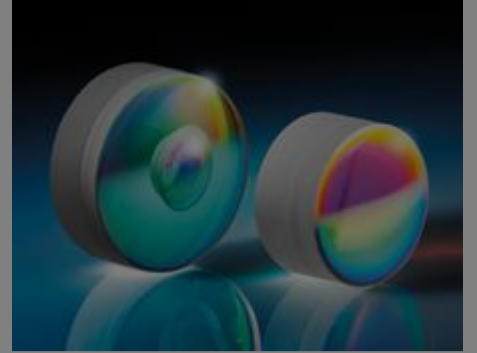
€36,50

Qty



€545,00

Qty



#45-783 - 6mm Dia. x 9mm FL, NIR II Coated, Achromatic Lens
€113,00

Qty

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Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
	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"/>
	25/25.4mm Diameter, T-Mount Thick Optic Mount	Fixed		#52-293	€72,00 Request Quote	CONTACT US <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 Thick Optic Mount	Fixed		#56-354	€99,00 Request Quote	5 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

Anti-Reflection (AR) Coatings

APPLICATION NOTE

An Introduction to Optical Coatings

APPLICATION NOTE

Lens Geometry Performance Comparison

- Application Note
- Glossary
- Scientific Paper
- Video
- FAQ

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Infrared)

Coating

APPLICATION NOTE

The Correct Material for Infrared (IR) Applications

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