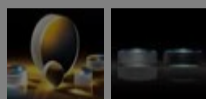
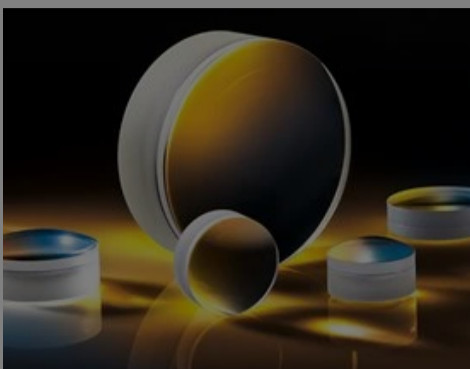


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/ [VIS-NIR Coated Achromatic Lens](#)

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**TECHSPEC® 75mm**



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Submit

Options

- 1 +

€414<sup>,00</sup>

ADD TO CART

Volume Pricing

Qty 1-5 €414,00 each

Qty 6-25 €332,00 each

Qty 26-49 €311,00 each

Need More? [Request Quote](#)

Prices shown are exclusive of VAT/local taxes

Product Downloads

- STEP:stp PDF Drawing:pdf
- ISO 10110 Drawing
- IGES:igs Zemax:zar
- Zemax:zmx eDrawing:eprt
- Code V:seq EO Spec Sheet

**General**

Type: Achromatic Lens

**Physical & Mechanical Properties**

Diameter (mm): 75.00 ±0.025

Clear Aperture CA (mm): 73.5

Centering (arcmin): <1

Center Thickness CT (mm): 23.94 ±0.20

Center Thickness CT 1 (mm): 17.94 ±0.10

Center Thickness CT 2 (mm): 6.00 ±0.10

Edge Thickness ET (mm): 15.42

Bevel: Protective as needed

**Optical Properties**

Effective Focal Length EFL (mm): 200.00

Focal Length Tolerance (%): ±1

Back Focal Length BFL (mm): 187.69

Focal Length Specification Wavelength (nm): 587.6

Radius R<sub>1</sub> (mm): 118.81

Radius R<sub>2</sub> (mm): -96.37

Radius R<sub>3</sub> (mm): -288.97

Substrate: [N-BK7 / N-SF5](#)

Surface Quality: 40-20

f/#: 2.67

<b>Numerical Aperture NA:</b>	0.19	<b>Coating:</b>	VIS-NIR (400-1000nm)
<b>Coating Specification:</b>	$R_{abs} \leq 0.25\%$ @ 880nm $R_{avg} \leq 1.25\%$ @ 400 - 870nm $R_{avg} \leq 1.25\%$ @ 890 - 1000nm	<b>Power (P-V) @ 632.8nm:</b>	1.5λ
<b>Irregularity (P-V) @ 632.8nm:</b>	λ/4		

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## Regulatory Compliance

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 for 0° Angle of Incidence
- Less Than 0.25% Reflectance Per Surface @ 880nm
- **MgF<sub>2</sub>** and **VIS 0°** Coated Achromats Also Available

TECHSPEC® VIS-NIR Coated Achromatic Lenses consist of two optical components cemented together to form an achromatic doublet. The doublet is computer optimized to correct for on-axis spherical and chromatic aberrations. TECHSPEC® VIS-NIR Coated Achromatic Lenses have visible/near-infrared broadband anti-reflection coating, which is specially optimized to yield maximum transmission (>99%) in the near-infrared. The achromatic lenses reduce reflection to less than 0.25 percent per surface at 880nm. **Magnesium Fluoride** coated and **VIS 0°** coated achromats are also available.

## Technical Information

## Coating Curves

VIS-NIR (400-1000nm)



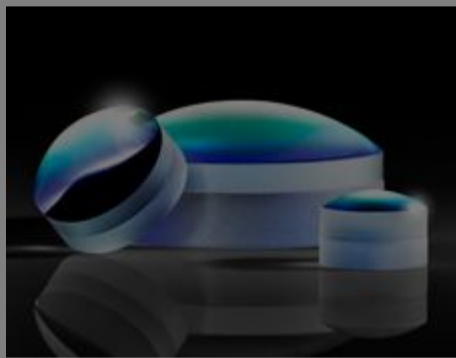
Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.

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🔍 SHIFT + SELECT an area on CURVE to zoom

Please note that coating performance outside each product's specified design range is theoretical and may vary.

### Related Products



Aspherized Achromatic Lenses



Optical Cleaning

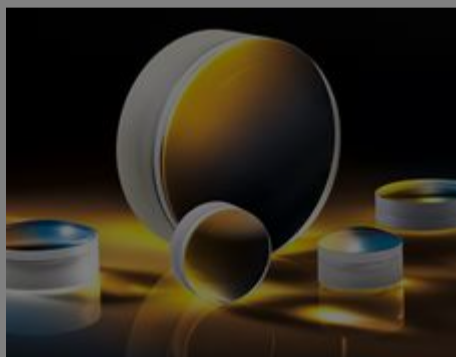


Optical Lens and Filter Mounts



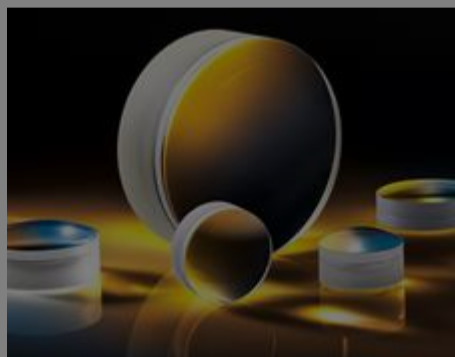
Optical Lenses

### Frequently Purchased Together



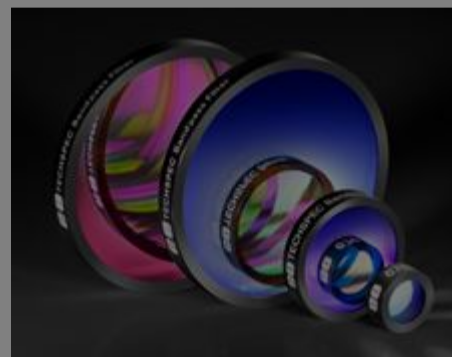
#33-925 - 75mm Dia. x 150mm FL, VIS-NIR Coated, Achromatic Lens  
€403,00

Qty



#33-925-INK - 75mm Dia. x 150mm FL, VIS-NIR, Inked, Achromatic Lens  
€414,00

Qty



#34-501 - 445nm CWL, 50mm Dia., Hard Coated OD 4.0 10nm Bandpass Filter  
€679,00

Qty



#35-088 - 1/4-20 Mounting Adapter for IDS Imaging USB 3/GigE/PoE Camera - Rev 2  
€45,00

Qty

## Resources

Media Type

📄 APPLICATION NOTE

Anti-Reflection (AR) Coatings

📄 APPLICATION NOTE

📄 APPLICATION NOTE

Lens Geometry Performance Comparison

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

## An Introduction to Optical Coatings

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**GLOSSARY**  
NIR (Near Infrared)

**GLOSSARY**  
VIS/NIR Coating

**APPLICATION NOTE**  
The Correct Material for Infrared (IR) Applications

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