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TECHSPEC®

50mm Dia x 40mm Focal Length Molded Aspheric Condenser Lens

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TECHSPEC Molded Aspheric Condenser Lenses

Stock #15-197 **20+ In Stock** [Other Coating Options](#)

- 1 +

€52^{.50}

ADD TO CART

Volume Pricing	
Qty 1-10	€52,50 each
Qty 11-49	€47,00 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

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

General

Type: Condenser Lens

Note: [Click here](#) for more information on the ISO 10110 surface quality specification.

Physical & Mechanical Properties

Diameter (mm):	50.00 +0.0/-0.3	Centering (arcmin):	≤25
Clear Aperture CA (mm):	44.78	Edge Thickness ET (mm):	3.21
Center Thickness CT (mm):	21.42 ±0.30	Bevel:	Protective as needed
Diameter of Asphere (mm):	50.00	Shape of Back Surface:	Plano

Optical Properties

Effective Focal Length EFL (mm):	40.00 @ 587.6nm	Numerical Aperture NA:	0.62
Back Focal Length BFL (mm):	25.92	Substrate:	Liba2000+
Focal Length Tolerance (%):	±5	Coating:	MgF ₂ (400-700nm)
Coating Specification:	R _{avg} ≤1.75% @ 400 - 700nm	Surface Quality:	Molded Side: 5/5 x 0.63; F

			0.4 Polished Side: 5/5 x 0.25; E 0.4
f/#:	0.8	<div style="border: 1px solid black; padding: 10px; text-align: center;"> <p>Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.</p> <p>Select Your Country/Region:</p> </div>	
Design Wavelength DWL (nm):	587.6		
Radius R₂ (mm):	∞	Wavelength Range (nm):	400 - 700
Conjugate Distance:	Infinite	Focal Length Specification Wavelength (nm):	587.6

Material Properties

Coefficient of Thermal Expansion CTE (10⁻⁶/°C): 9.4

Regulatory Compliance

RoHS 2015: **Compliant**

Certificate of Conformance: [View](#)

Reach 235: **Compliant**

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

- High Numerical Apertures
- Fully Documented for OEM Integration
- Ideal for Illumination Applications

TECHSPEC® Molded Aspheric Condenser Lenses have been designed for integration into the illumination path of OEM instrumentation. Available in 5 to 50mm diameters, the small diameter lenses are ideal for medical devices or portable instruments, while the larger lenses are typically integrated into benchtop analytical equipment including biotech instruments such as DNA sequencers and polymerase chain reaction (PCR) testing platforms. The front aspheric surface is molded to eliminate spherical aberrations, while the second surface is ground and polished for improved performance. Full prescription data and drawings are available to aid in design integration.

Note: For custom coating options, please [contact us](#).

Coating Curves

MgF₂ (400-700nm)



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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.

Frequently Purchased Together



#03-618 - 5mm Spacer to convert CS-Mount Cameras to C-Mount
€29,00

Qty



#32-981 - 50mm Dia. x 100mm FL, MgF₂ Coated, Double-Convex Lens
€66,50

Qty



#32-993 - 25mm Dia. x -25mm FL, MgF₂ Coated, Double-Concave Lens
€44,00

Qty







#34-344 - 150mm x 75mm, Breadboard
€87,00

Qty

Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
	50.0/50.8mm Optic Dia., SM2 Thin Mount	Fixed		#17-716	€36,25 Request Quote	20+ In Stock <input type="text" value="1"/>
	50.0mm Optic Dia., Optic Mount	Fixed		#64-567	€49,25 Request Quote	2 In Stock <input type="text" value="1"/>
	50.0mm Optic Dia., Optic Mount	Fixed		#64-568	€49,25 Request Quote	7 In Stock <input type="text" value="1"/>
	50mm Diameter, T-Mount Thin Optic Mount	Fixed		#88-943	€103,00 Request Quote	20+ In Stock <input type="text" value="1"/>
	50.0/50.8mm Optic Dia., X-Y Translating Optic Mount	Adjustable - Linear (XY)		#62-957	€308,00 Request Quote	1 In Stock <input type="text" value="1"/>

	Title	Type	Compare	Stock Number	Price	Buy
MORE+ 	50.0/50.8mm Optic Dia., X Translating Mount				€605,00	20+ In Stock <input type="text" value="1"/> 
MORE+ 	50.0/50.8mm Optic Dia., Optical Mou					10 In Stock <input type="text" value="1"/> 

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

Resources

Media Type

- Application Note
- Scientific Paper
- Trending in Optics
- Video
- Published Article
- FAQ
- Glossary

APPLICATION NOTE

Anti-Reflection (AR) Coatings

APPLICATION NOTE

An Introduction to Optical Coatings

CASE STUDIES

Laser Optics for Eye Surgery

APPLICATION NOTE

Lens Geometry Performance Comparison

APPLICATION NOTE

All About Aspheric Lenses

WEBINARS

Design Considerations for Custom Aspheres

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