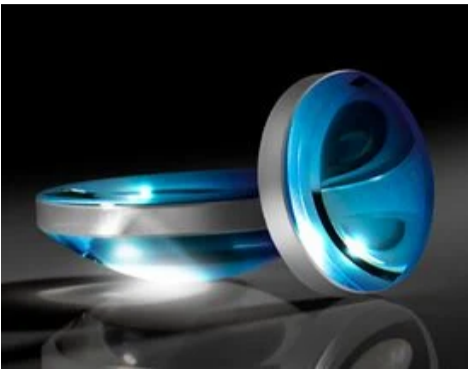


TECHSPEC®

20mm Dia., 0.56 NA, 900-1700nm Coated, NIR Aspheric Lens



Stock #16-295 **15 In Stock** [Other Coating Options](#)

1 C\$390^{.60}

ADD TO CART

TECHSPEC® Near-Infrared (NIR) Aspheric Lenses

Volume Pricing	
Qty 1-5	C\$390.60 each
Qty 6-10	C\$351.40 each
Qty 11-25	C\$327.60 each
Need More?	Request Quote

Product Downloads	
STEP:step	Curve:pdf
PDF Drawing:pdf	IGES:igs
Curve (xlsx)	Zemax:zar
eDrawing:eprt	Code V:seq
EO Spec Sheet	Download All

General

Type: Aspheric Lens

Physical & Mechanical Properties

Diameter (mm): 20.00 +0.00/-0.10	Centering (arcmin): <3
Clear Aperture CA (mm): 18	Edge Thickness ET (mm): 3.37
Center Thickness CT (mm): 7.10 ±0.10	Bevel: Protective as needed
Shape of Back Surface: Plano	

Optical Properties

Effective Focal Length EFL (mm): 17.99 @ 780nm	Numerical Aperture NA: 0.56
Back Focal Length BFL (mm): 14.00	Substrate: S-LAH64
Aspheric Design Wavelength (nm): 780	Asphere Figure Error, RMS @ 632.8nm: 1.2λ
Coating: SWIR+ (900-1700nm)	Coating Specification: R _{avg} < 0.5% @ 900 - 1700nm @ 0° ±30° AOI R _{abs} < 1% @ 900 - 1700nm @ 0° ±30° AOI
Surface Quality: 40-20	f/#: 0.90

Abbe Number (v_d):	47.37	Index of Refraction (n_d):	1.788
Wavelength Range (nm):	900 - 1700	Conjugate Distance:	Infinite
Power (diopters):	55.59		
Material Properties			
Coefficient of Thermal Expansion CTE (10⁻⁶/°C):	6.1		
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

- Optimized for Applications in the NIR
- Uncoated or AR coated versions available
- Multiple Design Wavelengths Available

TECHSPEC® Near-Infrared (NIR) Aspheric Lenses are optimized to eliminate spherical aberration in the near-infrared. Manufactured from S-LAH64 or N-BK7 substrates and polished through a computer numerical controlled (CNC) process, these aspheric lenses achieve high precision performance across the NIR spectrum. These NIR aspheric lenses include uncoated substrates designed at 780nm with coating options at 350-700nm, 600-1050nm, or 900-1700nm. TECHSPEC® Near-Infrared (NIR) Aspheric Lenses are available with low numerical aperture designs for applications that require beam shape to be maintained as well as high numerical aperture designs for light-gathering applications. For custom designed CNC polished aspheric lenses, please contact us.

Related Products



Aspheric Lenses



Precision Aspheric Lenses



Aspheric Lenses



Optical Lens and Filter Mounts

Frequently Purchased Together



#67-640 - 20mm Dia. x 20mm FL,
NIR II Coated, Double-Convex Lens
C\$70.70





Qty



#16-995 - 20mm Dia., 0.50
Numerical Aperture, 900-1700nm
Coated, Precision Aspheric Lens
C\$530.60

Qty

Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
 	20.0mm Optic Dia., Optic Mount	Fixed		#64-559	C\$45.85 Request Quote	14 In Stock <input type="text" value="1"/>
 	25mm Cage 20mm Diameter Lens Mount	Fixed		#85-543	C\$64.05 Request Quote	20+ In Stock <input type="text" value="1"/>

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

Resources

Media Type

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

APPLICATION NOTE
Anti-Reflection (AR) Coatings

APPLICATION NOTE
An Introduction to Optical Coatings

APPLICATION NOTE
Lens Geometry Performance Comparison

CASE STUDIES
Laser Optics for Eye Surgery

APPLICATION NOTE
All About Aspheric Lenses

WEBINARS
Design Considerations for Custom Aspheres

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