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TECHSPEC® 50mm Dia x 50mm FL, VIS EXT+, High Precision Aspheric Lens



TECHSPEC® High Precision Aspheric Lenses

Stock **#22-895** **1 In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ **A\$1,758⁴⁰**

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Volume Pricing	
Qty 1-5	A\$1,758.40 each
Qty 6-10	A\$1,582.40 each
Qty 11+	A\$1,476.80 each
Need More?	Request Quote

Product Downloads

General

Aspheric Lens **Type:**

3D Surface Profile not included with coated lenses **Note:**

Physical & Mechanical Properties

Diameter (mm):

50.00 +0.00/-0.025

Centering (arcmin):

<1

Clear Aperture CA (mm):

45.00

Edge Thickness ET (mm):

4.82

Center Thickness CT (mm):

13.06

Bevel:

Protective as needed

Shape of Back Surface:

Plano

Optical Properties

Effective Focal Length EFL (mm):

50.00 @ 587.6nm

Numerical Aperture NA:

0.50

Back Focal Length BFL (mm):

42.77

Substrate:

[N-SF6](#)

Aspheric Design Wavelength (nm):

587.6

Asphere Figure Error, RMS @ 632.8nm:

$\lambda/40$

Coating:

VIS-EXT+ (350-700nm)

Coating Specification:

$R_{avg} < 0.5\%$ @ 350 - 700nm @ $\pm 30^\circ$ AOI

$R_{rms} < 1.5\%$ @ 350 - 700nm @ $\pm 30^\circ$ AOI

Surface Quality:

40-20

f/#:

1

Wavelength Range (nm):

350 - 700

Conjugate Distance:

Infinite

Power (diopters):

20.00

Regulatory Compliance

RoHS 2015:

[Compliant](#)

Certificate of Conformance:

[View](#)

Reach 250:

[Compliant](#)

Product Details

- High Precision Aspheric Surface
- 3D Surface Profiles Included with Uncoated Lenses
- Uncoated and $< 0.25\%$ Reflectance V-Coat Available

TECHSPEC® High Precision Aspheric Lenses guarantee better than $\lambda/40$ wave aspheric figure error. Achieved via precision magneto-rheological finishing (MRF), these aspheres offer high numerical apertures with diameters ranging from 15 to 50mm and are ideal for a variety of imaging and low light level applications. Each TECHSPEC High Precision Aspheric Lens is individually measured. 3D surface profiles are included with uncoated lenses. For diffraction-limited aspheres designed at specific Nd:YAG laser wavelengths, see our [TECHSPEC High Precision Laser Grade Aspheric Lenses](#).

Custom

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](#).