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TECHSPEC<sup>®</sup> 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

+

£879<sup>20</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | £879.20 each                  |
| Qty 6-10       | £791.20 each                  |
| Qty 11+        | £738.40 each                  |
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**i** Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Aspheric Lens

Type:

Note:  
3D Surface Profile not included with coated lenses

Physical & Mechanical Properties

|                                                                            |                                                                                              |
|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 50.00 +0.00/-0.025                                                         | Diameter (mm):                                                                               |
| <1                                                                         | Centering (arcmin):                                                                          |
| 45.00                                                                      | Clear Aperture CA (mm):                                                                      |
| 4.82                                                                       | Edge Thickness ET (mm):                                                                      |
| 13.06                                                                      | Center Thickness CT (mm):                                                                    |
| Protective as needed                                                       | Bevel:                                                                                       |
| Plano                                                                      | Shape of Back Surface:                                                                       |
| Optical Properties                                                         |                                                                                              |
| 50.00 @ 587.6nm                                                            | Effective Focal Length EFL (mm):                                                             |
| 0.50                                                                       | Numerical Aperture NA:                                                                       |
| 42.77                                                                      | Back Focal Length BFL (mm):                                                                  |
| N-SF6                                                                      | Substrate:  |
| 587.6                                                                      | Aspheric Design Wavelength (nm):                                                             |
| λ/40                                                                       | Asphere Figure Error, RMS @ 632.8nm:                                                         |
| VS-EXT+ (350-700nm)                                                        | Coating:                                                                                     |
| Ravg <0.5% @ 350 - 700nm @ ±30° AOI<br>Rabs <1.5% @ 350 - 700nm @ ±30° AOI | Coating Specification:                                                                       |
| 40-20                                                                      | Surface Quality:                                                                             |
| 1                                                                          | f/#:                                                                                         |
| 350 - 700                                                                  | Wavelength Range (nm):                                                                       |
| Infinite                                                                   | Conjugate Distance:                                                                          |
| 20.00                                                                      | Power (diopters):                                                                            |
| Regulatory Compliance                                                      |                                                                                              |
| Compliant                                                                  | RoHS 2015:                                                                                   |
| View                                                                       | Certificate of Conformance:                                                                  |
| Compliant                                                                  | Reach 250:                                                                                   |

## 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 λ/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](#).

