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TECHSPEC® 50mm Dia., 0.50 NA, Uncoated, Calibration Grade Aspheric Lens



Calibration Grade Aspheric Lenses

Stock #69-144 **CLEARANCE** 15 In Stock

⊖ 1 ⊕ €759⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-5	€759,00 each
Qty 6-25	€688,00 each
Qty 26-49	€606,00 each
Need More?	Request Quote

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Aspheric Lens **Type:**

Physical & Mechanical Properties

50.00 +0.0/-0.1 **Diameter (mm):**

Centering (arcmin):

≤1	
46.00	Clear Aperture CA (mm):
7.85	Edge Thickness ET (mm):
19.40	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:
37.79	Back Focal Length BFL (mm):
L-BAL35	Substrate: <input type="checkbox"/>
587.6	Aspheric Design Wavelength (nm):
0.4λ	Asphere Figure Error, RMS @ 632.8nm:
Uncoated	Coating:
20-10	Surface Quality:
1.00	f#:
330 - 2400	Wavelength Range (nm):
Infinite	Conjugate Distance:
20.00	Power (diopters):

Regulatory Compliance	
Compliant	RoHS 2015:
Compliant	Reach 223:
View	Certificate of Conformance:

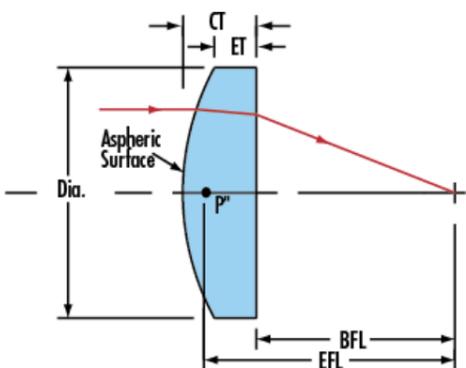
Product Details

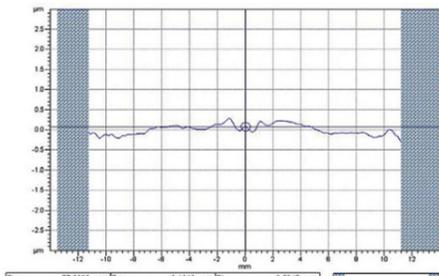
- Complete Metrology Data Provided
- Precision Grade Aspheric Surface
- 0.66 and 0.50 NALenses

Our TECHSPEC® Calibration Grade Aspheric Lenses offer the ultimate in performance and precision available from an off-the-shelf polished aspheric lenses. Featuring improved aspheric surface figure, surface quality, and centering specification over our [TECHSPEC® Aspheric lenses](#), these optical components are ideal for integration into R&D and OEM applications alike. With high numerical apertures, the lenses are ideal for improving the efficiency of low light level detection systems, or for applications requiring a compact optical path.

Each aspheric lens is serialized and provided with a complete metrology data package. The test data package includes a surface profile performed on our Taylor Hobson Talysurf Profilometer, an interferogram of the spherical surface, and tested values for diameter, center thickness, and centration. For custom designed calibration grade aspheric lenses, coating requirements, or volume pricing, please contact our [Sales Department](#).

Technical Information





Fit	77.8898 mm	Pa	0.1049 µm	P1	0.5917 µm
Gmn	0.009 mm	Gmx	0.056 mm	G1c	0.014 mm
PC	-1.1133 mm	PCr	11.2133 mm	PC2	12.9556 mm
RMS	0.1228 µm				

Date Item Setup	
Item Name	11.00100000
Date Created	0.750000
Shape	Circle
Dev Points	
P01	0.000000000
P02	0.000000000
P03	0.000000000
P04	-2.000000000
P05	0.000000000
P06	-2.000000000
P07	0.000000000
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Compatible Mounts