

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



Calibration Grade Aspheric Lenses

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

⊖ 1 ⊕ £607²⁰

ADD TO CART

Volume Pricing	
Qty 1-5	£607.20 each
Qty 6-25	£550.40 each
Qty 26-49	£484.80 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#:
61.15	Abbe Number (v _d):
1.589	Index of Refraction (n _d):
330 - 2400	Wavelength Range (nm):
Infinite	Conjugate Distance:
587.6	Focal Length Specification Wavelength (nm):
20.00	Power (diopters):

Material Properties

6.6	Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):
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Regulatory Compliance

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

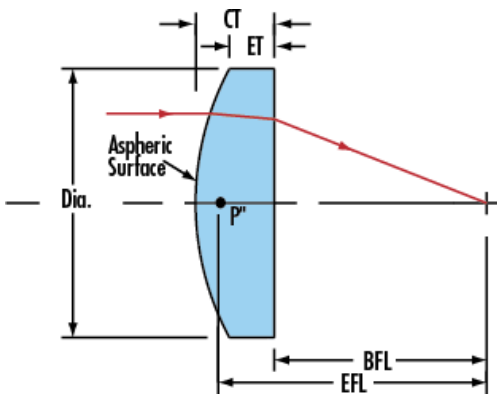
Product Details

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

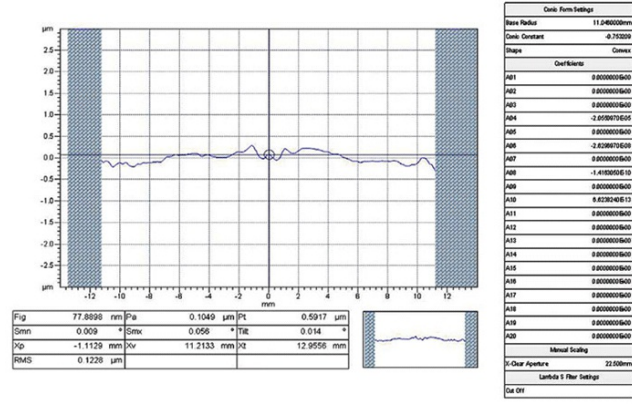
Our TECHSPEC® Calibration Grade Aspheric Lenses offer the ultimate in performance and precision available from an off-the-shelf polished aspheric lenses. Featuring improved aspheric surface figure, surface quality, and centering specification over our [TECHSPEC® Aspheric lenses](#), these optical components 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



Taylor Hobson
OPTICAL



Coat Film Settings	
Base Radius	11.840000mm
Coat Constant	-0.75000
Coat	Coat
Coat Name	
A01	0.000000000
A02	0.000000000
A03	0.000000000
A04	0.000000000
A05	0.000000000
A06	-0.000000000
A07	0.000000000
A08	-1.410000000
A09	0.000000000
A10	0.000000000
A11	0.000000000
A12	0.000000000
A13	0.000000000
A14	0.000000000
A15	0.000000000
A16	0.000000000
A17	0.000000000
A18	0.000000000
A19	0.000000000
A20	0.000000000
Manual Input	
Clear Aperture	21.000mm
Lambda 0 Filter Settings	
Use Off	

Compatible Mounts