

TECHSPEC[®] 20mm Dia. x 80mm FL, VIS 0°, Inked, Achromatic Lens



Stock **#49-946-INK** 20+ In Stock

☐ [Other Coating Options](#)

-

1

+

€123^{.00}

ADD TO CART

Volume Pricing	
Qty 1-5	€123,00 each
Qty 6-25	€99,00 each
Qty 26-49	€92,50 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Achromatic Lens

Type:

Physical & Mechanical Properties

20.00 ±0.025	Diameter (mm):
19.00	Clear Aperture CA (mm):
<1	Centering (arcmin):
6.00 ±0.20	Center Thickness CT (mm):
4.00 ±0.10	Center Thickness CT 1 (mm):
2.00 ±0.10	Center Thickness CT 2 (mm):
4.51	Edge Thickness ET (mm):
Protective as needed	Bevel:

Optical Properties	
80.00	Effective Focal Length EFL (mm):
±1	Focal Length Tolerance (%):
77.26	Back Focal Length BFL (mm):
587.6	Focal Length Specification Wavelength (nm):
50.49	Radius R ₁ (mm):
-37.06	Radius R ₂ (mm):
-102.19	Radius R ₃ (mm):
N-BK7 / N-SF5	Substrate: ☐
40-20	Surface Quality:
4.00	f/#:
0.13	Numerical Aperture NA:
VIS 0° (425-675nm)	Coating:
R _{avg} ≤0.4% @ 425 - 675nm	Coating Specification:
1.5λ	Power (P-V) @ 632.8nm:
λ/4	Irregularity (P-V) @ 632.8nm:
425 - 675	Wavelength Range (nm):

Regulatory Compliance	
Compliant	RoHS 2015:
Compliant	Reach 219:
View	Certificate of Conformance:

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](#).

Product Details

- Designed for 0° Angle of Incidence
 - Less Than 0.4% Reflectance Per Surface from 425 - 675nm
 - [MgF₂](#) and [VIS-NIR](#) Coated Achromats Also Available
- TECHSPEC® VIS 0° Coated Achromatic Lenses consist of two optical components cemented together to form an achromatic doublet. The doublet is computer optimized to correct for on-axis spherical and chromatic aberrations. Achromatic lenses are best for applications involving multi-color (white light) imaging due to their specific doublet lens pairing that enables them to correct the color separation inherent in glass. TECHSPEC® VIS 0° Coated Achromatic Lenses provide optimized transmission for 425 – 675nm, reducing average reflection to 0.4%. [MgF₂](#) and [VIS-NIR](#) Coated Achromats are also available on our website.

Technical Information



Coating Curves

Compatible Mounts