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TECHSPEC® 40mm Dia. x 40mm FL, VIS-EXT, Inked, Double-Convex Lens



Stock **#89-193-INK** [CONTACT US](#)

[Other Coating Options](#)

⊖ 1 ⊕ €90.⁰⁰

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Volume Pricing	
Qty 1-9	€90,00 each
Qty 10-24	€81,00 each
Qty 25-99	€72,00 each
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Double-Convex Lens **Type:**

Physical & Mechanical Properties

40.00 ±0.025	Diameter (mm):
<1	Centering (arcmin):
Protective as needed	Bevel:
8.50	Center Thickness CT (mm):
±0.10	Center Thickness Tolerance (mm):
1.74	Edge Thickness ET (mm):
39.00	Clear Aperture CA (mm):

Optical Properties

37.54	Back Focal Length BFL (mm):
40.00	Effective Focal Length EFL (mm):
VIS-EXT (350-700nm)	Coating:
R _{avg} <0.5% @ 350 - 700nm	Coating Specification:
N-SF11	Substrate: <input type="checkbox"/>
40-20	Surface Quality:
1.5λ	Power (P-V) @ 632.8nm:
λ/4	Irregularity (P-V) @ 632.8nm:
60.85	Radius R₁=R₂ (mm):
1.00	f#:
587.6	Focal Length Specification Wavelength (nm):
±1	Focal Length Tolerance (%):
0.50	Numerical Aperture NA:
350 - 700	Wavelength Range (nm):

Regulatory Compliance

View	Certificate of Conformance:
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Product Details

- AR Coated to Provide <0.5% Reflectance per Surface for 350 - 700nm
 - Minimize Aberrations Including Spherical and Coma
 - [UV Fused Silica DCX Lenses](#) Available
 - Other Coating Options Available: [Uncoated](#), [MgF₂](#), [VIS 0°](#), [NIR I](#), [NIR II](#), [VIS-NIR](#), and [YAG-BBAR](#)
- TECHSPEC® VIS-EXT Coated Double-Convex (DCX) Lenses, also referred to as bi-convex lenses, have two positive, symmetrical faces with equal radii on both sides. These lenses are generally recommended for finite imaging applications with a conjugate ratio (ratio between object distance and image distance) between 0.2 and 5. At a conjugate ratio of 1, aberrations such as spherical aberration, chromatic aberration, coma, and distortion are minimized or cancelled due to the symmetric lens design. TECHSPEC VIS-EXT Coated Double-Convex Lenses are available in a variety of substrates and coating options for the visible and NIR spectra.

Technical Information





across the UV - NIR spectra.
[Click Here to Download Data](#)

**N-BK7 with MgF₂ Coating
 Typical Transmission**



Typical transmission of a 3mm thick N-BK7 window with MgF₂ (400-700nm) coating at 0° AOI.
 The blue shaded region indicates the coating design wavelength range, with the following specification:
 $R_{avg} \leq 1.75\% @ 400 - 700\text{nm (N-BK7)}$
 Data outside this range is not guaranteed and is for reference only.

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**N-BK7 with VIS-EXT Coating
 Typical Transmission**



Typical transmission of a 3mm thick N-BK7 window with VIS-EXT (350-700nm) coating at 0° AOI.
 The blue shaded region indicates the coating design wavelength range, with the following specification:
 $R_{avg} \leq 0.5\% @ 350 - 700\text{nm}$
 Data outside this range is not guaranteed and is for reference only.

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**N-BK7 with VIS-NIR Coating
 Typical Transmission**



Typical transmission of a 3mm thick N-BK7 window with VIS-NIR (400-1000nm) coating at 0° AOI.
 The blue shaded region indicates the coating design wavelength range, with the following specification:
 $R_{abs} \leq 0.25\% @ 880\text{nm}$
 $R_{avg} \leq 1.25\% @ 400 - 870\text{nm}$
 $R_{avg} \leq 1.25\% @ 890 - 1000\text{nm}$
 Data outside this range is not guaranteed and is for reference only.

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**N-BK7 with VIS 0° Coating
 Typical Transmission**



Typical transmission of a 3mm thick N-BK7 window with VIS 0° (425-675nm) coating at 0° AOI.
 The blue shaded region indicates the coating design wavelength range, with the following specification:
 $R_{avg} \leq 0.4\% @ 425 - 675\text{nm}$
 Data outside this range is not guaranteed and is for reference only.

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**N-BK7 with YAG-BBAR Coating
 Typical Transmission**



**N-BK7 with NIR I Coating
Typical Transmission**



**N-BK7 with NIR II Coating
Typical Transmission**



Compatible Mounts