

TECHSPEC[®]

40 mm D. x 100 mm Brennweite, DCX Linse mit VIS-NIR AR Beschichtung, geschwärzt



Produkt **#33-409-INK** [KONTAKT](#)

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1

+

€90^{.00}

+ WARENKORB

Mengenrabatte	
Stk. 1-9	€90,00 stückpreis
Stk. 10-24	€81,00 stückpreis
Stk. 25-99	€72,00 stückpreis
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ⓘ Preise exklusiv der geltenden Mehrwertsteuer und Abgaben

Downloadbereich

Produktdetails	
Double-Convex Lens	Typ:
Physikalische und mechanische Eigenschaften	

40.00 ±0.025	Durchmesser (mm):
<1	Zentrierung (Bogenminuten):
Protective as needed	Fase:
8.00	Mittendicke CT (mm):
±0.10	Toleranz Mittendicke (mm):
4.04	Randdicke ET (mm):
39.00	Freie Apertur CA (mm):

Optische Eigenschaften

97.33	Hintere Brennweite BFL (mm):
100.00	Effektive Brennweite EFL (mm):
VIS-NIR (400-1000nm)	Beschichtung:
R _{abs} ≤0.25% @ 880nm R _{avg} ≤1.25% @ 400 - 870 nm R _{avg} ≤1.25% @ 890 - 1000nm	Beschichtungsspezifikation:
N-BK7	Substrat: □
40-20	Oberflächenqualität:
1.5λ	Power (P-V) @ 632,8 nm:
λ/4	Unregelmäßigkeit (P-V) @ 632,8 nm:
101.98	Radius R ₁ =R ₂ (mm):
2.5	Blende:
587.6	Designwellenlänge Brennweite (nm):
±1	Toleranz Brennweite (%):
0.20	Numerische Apertur NA:
400 - 1000	Wellenlängenbereich (nm):
5 J/cm² @ 532nm, 10ns	Zerstörschwelle, laut Design: □

Konformität mit Standards

Anzeigen	Konformitätszertifikat:
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Produktdetails

- AR-beschichtet für <1,25% Reflexion pro Oberfläche bei 400 - 1000 nm
- Minimieren Aberrationen wie sphärische Aberration oder Koma
- **DCX-Linsen aus UV-Quarzglas** sind ebenfalls verfügbar
- Weitere Beschichtungen verfügbar: **Unbeschichtet**, **MgF₂**, **VIS 0°**, **NIR I**, **NIR II**, **VIS-EXT** und **YAG-BBAR**

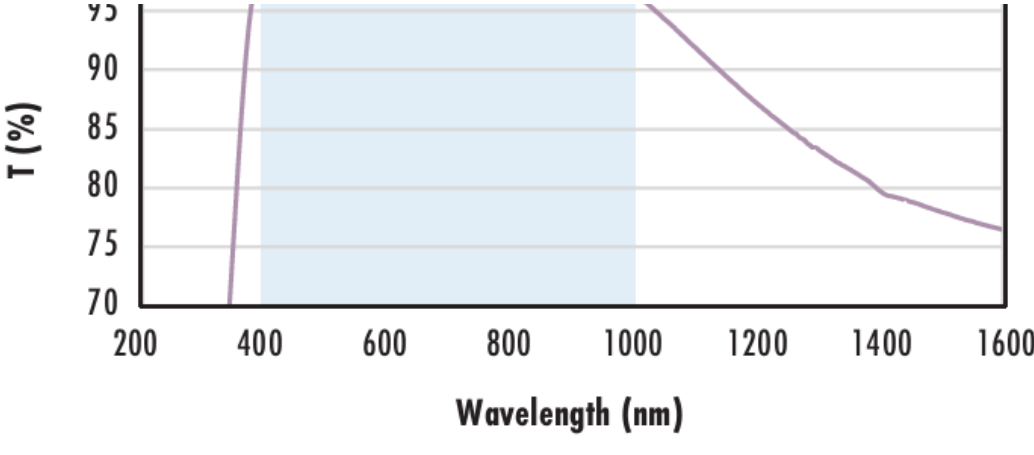
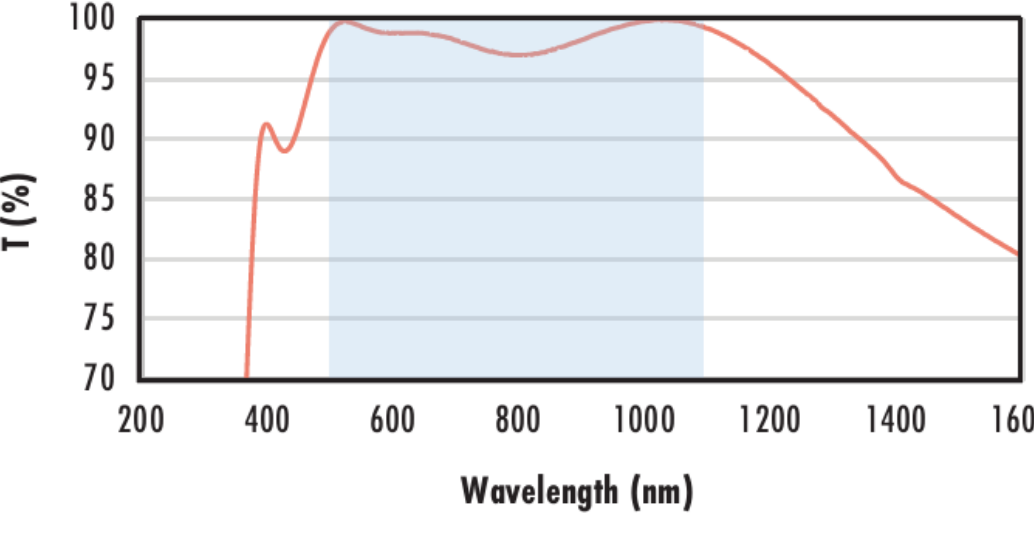
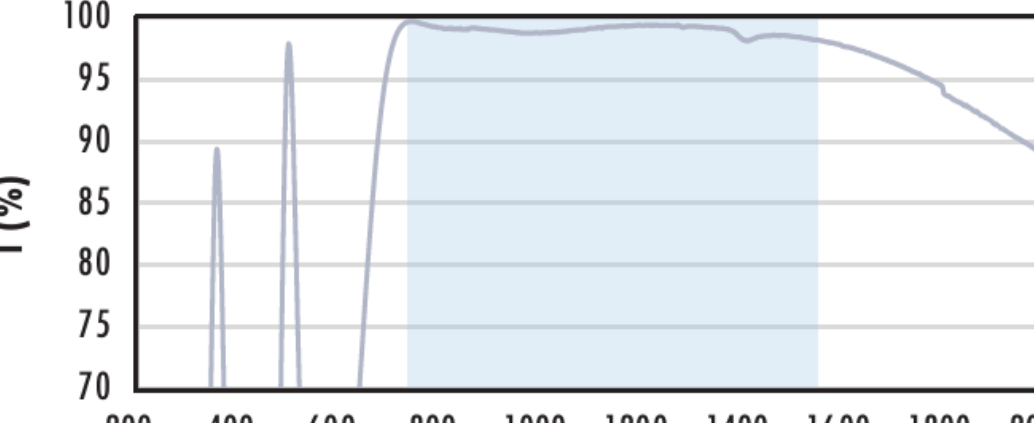
Die TECHSPEC® DCX-Linsen mit AR-Beschichtung VIS-NIR, auch bikonvexe Linsen genannt, haben zwei positive, symmetrische Oberflächen mit gleichem Krümmungsradius auf beiden Seiten. Die Linsen werden generell für Bildgebungen mit endlichem Abstand und Konjugiertenverhältnis (Verhältnis zwischen Objekt- und Bildweite) zwischen 0,2 und 5 empfohlen. Bei einem Konjugiertenverhältnis von 1 sind Aberrationen wie sphärische Aberration, chromatische Aberration, Koma und Verzeichnung aufgrund des symmetrischen Linsendesigns minimiert oder sogar ganz eliminiert. Die TECHSPEC® doppelkonvexen Linsen sind mit verschiedenen Substraten und verschiedenen Beschichtungsoptionen für VIS und NIR verfügbar.

Technische Informationen

VIS-NIR Coating
R_{avg} ≤0.25% @ 880nm, R_{avg} ≤1.25% @ 400 - 1000nm
Typ. Energy Density Limit: 5 J/cm² @ 532nm, 10ns



N-BK7	
Uncoated N-BK7 Typical Transmission A line graph showing the typical transmission of an uncoated N-BK7 window. The y-axis is labeled 'T (%)' and ranges from 70 to 100 in increments of 5. The x-axis is labeled 'Wavelength (nm)' and ranges from 200 to 2200 in increments of 200. The curve starts at approximately 70% at 300 nm, rises steeply to about 92% at 400 nm, and then remains relatively flat, ending at approximately 88% at 2200 nm.	Typical transmission of a 3mm thick, uncoated N-BK7 window across the UV - NIR spectra. Click Here to Download Data
N-BK7 with MgF₂ Coating Typical Transmission A line graph showing the typical transmission of an N-BK7 window with a MgF₂ coating. The y-axis is labeled 'T (%)' and ranges from 70 to 100 in increments of 5. The x-axis is labeled 'Wavelength (nm)' and ranges from 200 to 2200 in increments of 200. The curve starts at approximately 70% at 300 nm, rises to about 95% at 400 nm, peaks at approximately 98% around 500 nm, and then gradually declines to about 90% at 2200 nm. A blue shaded region highlights the wavelength range from approximately 400 nm to 700 nm.	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} ≤ 1.75% @ 400 - 700nm (N-BK7) Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
N-BK7 with VIS-EXT Coating Typical Transmission A line graph showing the typical transmission of an N-BK7 window with a VIS-EXT coating. The y-axis is labeled 'T (%)' and ranges from 70 to 100 in increments of 5. The x-axis is labeled 'Wavelength (nm)' and ranges from 200 to 1200 in increments of 200. The curve starts at approximately 70% at 300 nm, rises to about 95% at 400 nm, and remains flat at approximately 98% until about 700 nm, after which it declines to about 78% at 1200 nm. A blue shaded region highlights the wavelength range from approximately 350 nm to 700 nm.	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} ≤ 0.5% @ 350 - 700nm Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
N-BK7 with VIS-NIR Coating Typical Transmission A line graph showing the typical transmission of an N-BK7 window with a VIS-NIR coating. The y-axis is labeled 'T (%)' and ranges from 70 to 100 in increments of 5. The x-axis is labeled 'Wavelength (nm)' and ranges from 200 to 1200 in increments of 200. The curve starts at approximately 70% at 300 nm, rises to about 95% at 400 nm, and remains flat at approximately 98% until about 700 nm, after which it declines to about 78% at 1200 nm. A blue shaded region highlights the wavelength range from approximately 400 nm to 1000 nm.	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: $R_{abs} \leq 0.25\% @ 880nm$ $R_{avg} \leq 1.25\% @ 400 - 870nm$ $R_{avg} \leq 1.25\% @ 890 - 1000nm$ Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
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: $R_{avg} \leq 0.4\% @ 425 - 675nm$ Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
N-BK7 with YAG-BBAR Coating Typical Transmission 	Typical transmission of a 3mm thick N-BK7 window with YAG-BBAR (500-1100nm) coating at 0° AOI. The blue shaded region indicates the coating design wavelength range, with the following specification: $R_{abs} \leq 0.25\% @ 532nm$ $R_{abs} \leq 0.25\% @ 1064nm$ $R_{avg} \leq 1.0\% @ 500 - 1100nm$ Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
N-BK7 with NIR I Coating Typical Transmission 	Typical transmission of a 3mm thick N-BK7 window with NIR I (600 - 1050nm) coating at 0° AOI. The blue shaded region indicates the coating design wavelength range, with the following specification: $R_{avg} \leq 0.5\% @ 600 - 1050nm$ Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
N-BK7 with NIR II Coating Typical Transmission 	Typical transmission of a 3mm thick N-BK7 window with NIR II (750 - 1550nm) coating at 0° AOI. The blue shaded region indicates the coating design wavelength range, with the following specification: $R_{abs} \leq 1.5\% @ 750 - 800nm$ $R_{abs} \leq 1.0\% @ 800 - 1550nm$ $R_{avg} \leq 0.7\% @ 750 - 1550nm$ Data outside this range is not guaranteed and is for reference only. Click Here to Download Data

200	400	600	800	1000	1200	1400	1600	1800	2000	
Wavelength (nm)										

Beschichtungskurven

Kundenspezifische Produkte

Edmund Optics bietet einen umfangreichen kundenspezifischen Fertigungsservice für Optik- und Bildverarbeitungskomponenten an, speziell hergestellt für Ihre Anwendungsanforderungen. Wir ermöglichen flexible Lösungen für Ihre Bedürfnisse – von der Prototypenphase bis zur Serienfertigung. Unsere erfahrenen IngenieurInnen freuen sich auf die Zusammenarbeit und unterstützen Sie bei jedem Projektschritt.

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