

TECHSPEC® 25 mm D. x 100 mm EFL, geschwärzt, DCX Linse mit VIS-EXT Beschichtung



Produkt **#89-181-INK**

KONTAKT

Andere Beschichtungen

-

1

+

€67<sup>.50</sup>

+ WARENKORB

| Mengenrabatte |                                 |
|---------------|---------------------------------|
| Stk. 1-9      | €67,50 stückpreis               |
| Stk. 10-24    | €61,00 stückpreis               |
| Stk. 25-99    | €54,00 stückpreis               |
| Need More?    | <a href="#">Angebotsanfrage</a> |

!

 Preise exklusiv der geltenden Mehrwertsteuer und Abgaben

Downloadbereich

Produktdetails

Double-Convex Lens

Typ:

Physikalische und mechanische Eigenschaften

|                      |                             |
|----------------------|-----------------------------|
| 25.00 ±0.025         | Durchmesser (mm):           |
| <1                   | Zentrierung (Bogenminuten): |
| Protective as needed | Fase:                       |
| 4.00                 | Mittendicke CT (mm):        |
| ±0.10                | Toleranz Mittendicke (mm):  |
| 2.48                 | Randdicke ET (mm):          |
| 24.00                | Freie Apertur CA (mm):      |

Optische Eigenschaften

|                                      |                                             |
|--------------------------------------|---------------------------------------------|
| 98.95                                | Hintere Brennweite BFL (mm):                |
| 100.00                               | Effektive Brennweite EFL (mm):              |
| VIS-EXT (350-700nm)                  | Beschichtung:                               |
| R <sub>avg</sub> <0.5% @ 350 - 700nm | Beschichtungsspezifikation:                 |
| N-BK7                                | Substrat: <input type="checkbox"/>          |
| 40-20                                | Oberflächenqualität:                        |
| 1.5λ                                 | Power (P-V) @ 632,8 nm:                     |
| λ/4                                  | Unregelmäßigkeit (P-V) @ 632,8 nm:          |
| 103.00                               | Radius R <sub>1</sub> =R <sub>2</sub> (mm): |
| 4.00                                 | Blende:                                     |
| 587.6                                | Designwellenlänge Brennweite (nm):          |
| ±1                                   | Toleranz Brennweite (%):                    |
| 0.13                                 | Numerische Apertur NA:                      |
| 350 - 700                            | Wellenlängenbereich (nm):                   |

Konformität mit Standards

|          |                         |
|----------|-------------------------|
| Anzeigen | Konformitätszertifikat: |
|----------|-------------------------|

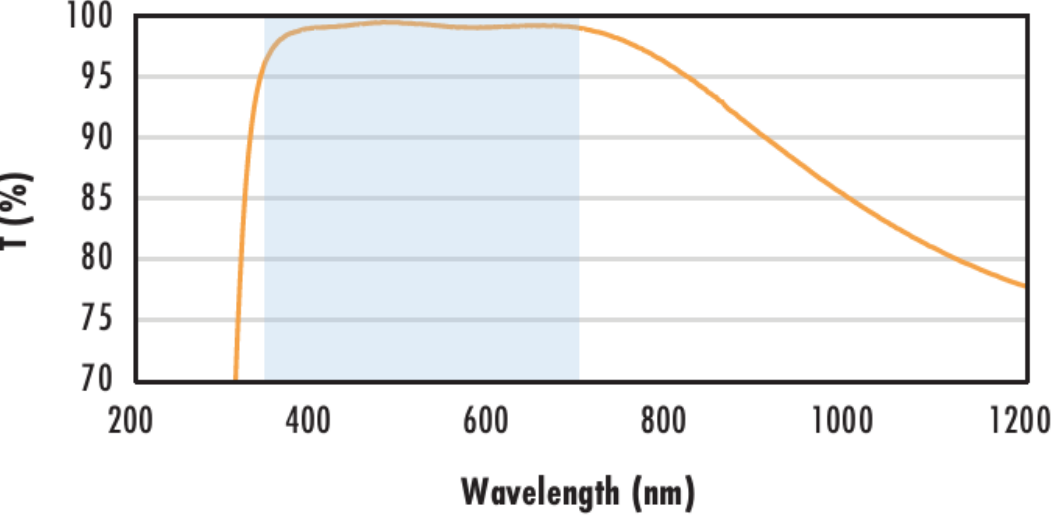
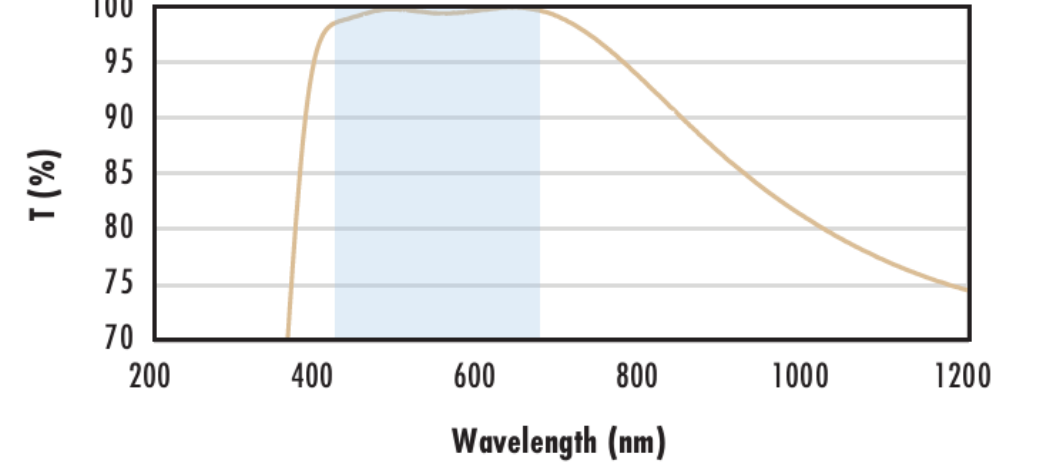
## Produktdetails

- AR-beschichtet für <0,5% Reflexion pro Oberfläche zwischen 350 - 700 nm
- Mnimieren Aberrationen wie sphärische Aberration oder Koma
- **DCX-Linsen aus UV-Quarzglas** sind ebenfalls verfügbar
- Weitere Beschichtungen verfügbar: **Unbeschichtet**, **MgF<sub>2</sub>**, **VIS 0°**, **VIS-NIR**, **NIR I**, **NIR II** und **YAG-BBAR**

Die TECHSPEC® DCX-Linsen mit AR-Beschichtung VIS-EXT, 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



|                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                    | <p>Typical transmission of a 3mm thick, uncoated N-BK7 window across the UV - NIR spectra.</p> <p><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                                                                                                                                                                                                              |
| <p><b>N-BK7 with MgF<sub>2</sub> Coating</b><br/><b>Typical Transmission</b></p>  | <p>Typical transmission of a 3mm thick N-BK7 window with MgF2 (400-700nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{avg} \leq 1.75\% @ 400 - 700\text{nm}</math> (N-BK7)</p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p>                                                                                                            |
| <p><b>N-BK7 with VIS-EXT Coating</b><br/><b>Typical Transmission</b></p>        | <p>Typical transmission of a 3mm thick N-BK7 window with VIS-EXT (350-700nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{avg} \leq 0.5\% @ 350 - 700\text{nm}</math></p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p>                                                                                                                  |
| <p><b>N-BK7 with VIS-NIR Coating</b><br/><b>Typical Transmission</b></p>        | <p>Typical transmission of a 3mm thick N-BK7 window with VIS-NIR (400-1000nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{abs} \leq 0.25\% @ 880\text{nm}</math><br/><math>R_{avg} \leq 1.25\% @ 400 - 870\text{nm}</math><br/><math>R_{avg} \leq 1.25\% @ 890 - 1000\text{nm}</math></p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p> |
| <p><b>N-BK7 with VIS 0° Coating</b><br/><b>Typical Transmission</b></p>         | <p>Typical transmission of a 3mm thick N-BK7 window with VIS 0° (425-675nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{avg} \leq 0.4\% @ 425 - 675\text{nm}</math></p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p>                                                                                                                   |
| <p><b>N-BK7 with YAG-BBAR Coating</b><br/><b>Typical Transmission</b></p>                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

|                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Typical Transmission</b></p>                                  | <p>Typical transmission of a 3mm thick N-BK7 window with YAG-BBAR (500-1100nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{abs} \leq 0.25\% @ 532nm</math><br/><math>R_{abs} \leq 0.25\% @ 1064nm</math><br/><math>R_{avg} \leq 1.0\% @ 500 - 1100nm</math></p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p>           |
| <p><b>N-BK7 with NIR I Coating<br/>Typical Transmission</b></p>    | <p>Typical transmission of a 3mm thick N-BK7 window with NIR I (600 - 1050nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{avg} \leq 0.5\% @ 600 - 1050nm</math></p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p>                                                                                                       |
| <p><b>N-BK7 with NIR II Coating<br/>Typical Transmission</b></p>  | <p>Typical transmission of a 3mm thick N-BK7 window with NIR II (750 - 1550nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{abs} \leq 1.5\% @ 750 - 800nm</math><br/><math>R_{abs} \leq 1.0\% @ 800 - 1550nm</math><br/><math>R_{avg} \leq 0.7\% @ 750 - 1550nm</math></p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p> |

Kompatible Halterungen