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## TECHSPEC® 50 mm Dia. x 100 mm EFL Traitée VIS-EXT, Lentille Bi-Convex (DCX)



Stock **#89-201** **2 In Stock**

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1  €83<sup>00</sup>

**AJOUTER AU PANIER**

| Prix sur Quantité |                                  |
|-------------------|----------------------------------|
| Qté 1-9           | €83,00 prix unitaire             |
| Qté 10-24         | €74,50 prix unitaire             |
| Qté 25-99         | €66,50 prix unitaire             |
| Need More?        | <a href="#">Demande de Devis</a> |

Les prix sont indiqués hors TVA et droits applicables.

Espace téléchargement

### Caractéristiques du produit

Double-Convex Lens **Type:**

### Propriétés physiques et mécaniques

|                      |                                           |
|----------------------|-------------------------------------------|
| 50.00 +0.000/-0.025  | <b>Diamètre (mm):</b>                     |
| <1                   | <b>Centrage (arcmin):</b>                 |
| Protective as needed | <b>Biseau:</b>                            |
| 10.00                | <b>Épaisseur Centrale CT (mm):</b>        |
| ±0.10                | <b>Tolérance Épaisseur Centrale (mm):</b> |
| 3.76                 | <b>Épaisseur au Bord ET (mm):</b>         |
| 49.00                | <b>Ouverture Utile CA (mm):</b>           |

## Propriétés optiques

|                                      |                                                 |
|--------------------------------------|-------------------------------------------------|
| 96.65                                | <b>Distance Focale Arrière BFL (mm):</b>        |
| 100.00                               | <b>Distance Focale EFL (mm):</b>                |
| VIS-EXT (350-700nm)                  | <b>Traitement:</b>                              |
| R <sub>avg</sub> <0.5% @ 350 - 700nm | <b>Spécification du Traitement:</b>             |
| <b>N-BK7</b>                         | <b>Substrat:</b> <input type="checkbox"/>       |
| 40-20                                | <b>Qualité de Surface:</b>                      |
| 1.5λ                                 | <b>Power (P-V) @ 632.8nm:</b>                   |
| λ/4                                  | <b>Irregularity (P-V) @ 632.8nm:</b>            |
| 101.63                               | <b>Rayon R<sub>1</sub>=R<sub>2</sub> (mm):</b>  |
| 2.00                                 | <b>f#:</b>                                      |
| 587.6                                | <b>Longueur d'Onde à la Focale Donnée (nm):</b> |
| ±1                                   | <b>Tolérance Distance Focale (%):</b>           |
| 0.25                                 | <b>Ouverture Numérique NA:</b>                  |
| 350 - 700                            | <b>Gamme de Longueur d'Onde (nm):</b>           |

## Conformité réglementaire

|                  |                                    |
|------------------|------------------------------------|
| <b>Conforme</b>  | <b>RoHS 2015:</b>                  |
| <b>Visionner</b> | <b>Certificate of Conformance:</b> |
| <b>Conforme</b>  | <b>Reach 235:</b>                  |

## Description produit

- Traitées AR pour offrir <0,5% de réflectivité par surface entre 350 - 700 nm
- Minimisent les aberrations sphériques et la coma
- **Lentilles DCX en Silice Fondue UV** disponibles
- D'autres options de traitement disponibles : **Non Traitées**, **MgF<sub>2</sub>**, **VIS 0°**, **NIR I**, **NIR II**, **VIS-NIR** et **YAG-BBAR**

Les Lentilles Biconvexes (DCX) avec Traitement VIS-EXT TECHSPEC®, également appelées lentilles double-convexes (DCX), ont deux faces positives et symétriques avec des rayons égaux des deux côtés. Ces lentilles sont généralement recommandées pour les applications d'imagerie finie avec un rapport conjugué (rapport entre la distance de l'objet et la distance de l'image) compris entre 0,2 et 5. Pour un rapport conjugué de 1, les aberrations telles que l'aberration sphérique, l'aberration chromatique, la coma et la distorsion sont minimisées ou annulées grâce à la conception symétrique de la lentille. Les Lentilles Biconvexes (DCX) avec Traitement VIS-EXT TECHSPEC sont disponibles dans une variété de substrats et d'options de traitement pour les spectres visible et NIR.

## Informations techniques

N-BK7

**Uncoated N-BK7 Typical Transmission**



Typical transmission of a 3mm thick, uncoated N-BK7 window across the UV- NIR spectra.

[Click Here to Download Data](#)

**N-BK7 with MgF<sub>2</sub> Coating  
Typical Transmission**



Typical transmission of a 3mm thick N-BK7 window with MgF<sub>2</sub> (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.

[Click Here to Download Data](#)

**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.

[Click Here to Download Data](#)

**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.

[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:

$$R_{avg} \leq 0.4\% @ 425 - 675\text{nm}$$

Data outside this range is not guaranteed and is for reference only.

[Click Here to Download Data](#)

| Wavelength (nm)                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>N-BK7 with YAG-BBAR Coating</b><br/><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 style="text-align: center;"> <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 style="text-align: center;"><a href="#">Click Here to Download Data</a></p>           |
| <p><b>N-BK7 with NIR I Coating</b><br/><b>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 style="text-align: center;"><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 style="text-align: center;"><a href="#">Click Here to Download Data</a></p>                                                                                                           |
| <p><b>N-BK7 with NIR II Coating</b><br/><b>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 style="text-align: center;"> <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 style="text-align: center;"><a href="#">Click Here to Download Data</a></p> |

**Montures compatibles**