

PhotonEdge

Precision Optical Components

N-BK7 Bi-Convex Lens

Product Datasheet | N-BK7 Material | Standard Grade

July 2026 | V1.0

1. Product Overview

PhotonEdge N-BK7 Bi-Convex Lenses are precision optical components manufactured from high-quality N-BK7. Bi-convex lenses have two convex surfaces with radii that may be the same or different. They are suitable for 1:1 conjugate ratio imaging applications, as well as beam expansion or reduction.

Our bi-convex lenses are available in various diameters (6.35mm to 50.8mm) and focal lengths, with surfaces precision-polished to $\lambda/10$ surface flatness. Each lens features multi-layer anti-reflection (AR) coating for maximum transmission in the visible and near-infrared spectrum.

PhotonEdge N-BK7 Bi-Convex Lenses offer excellent surface quality and tight tolerance control at competitive prices. Standard models deliver in 1-2 weeks, custom specifications in 3 weeks.

2. Technical Specifications

3. Standard Models

Custom Options: Other diameters (6.35mm, 12.7mm, 15mm, 20mm, 30mm, 50.8mm) and custom focal lengths are available. Contact us for volume pricing and OEM quantities.

The following standard models are in stock with typical delivery of 1-2 weeks. Custom diameters, focal lengths, and coatings can be manufactured in 3 weeks.

4.

All standard models feature multi-layer dielectric anti-reflection (AR) coatings optimized for the visible spectrum. Custom broadband AR and V-type coatings are available for specific wavelength ranges.

Coating Type	Wavelength	Reflectance	Applications
Standard	400-700nm	R < 0.5% per surface	Visible imaging, general optics
Optional	650-1000nm	R < 0.5% per surface	Near-infrared systems
Optional	400-1000nm	R < 1.0% per surface	Multi-wavelength systems
Optional	250-400nm	R < 1.5% per surface	UV imaging systems

5. Ordering Information

Sample Policy: First-time customers can order single-piece samples at regular price. 50% sample credit applies to subsequent bulk orders of 50+ pieces.

- When ordering or requesting a quote, please provide:
1. Model number or diameter and focal length requirements
 2. Coating specification (standard visible AR)
 3. Quantity and delivery requirements
 4. Special requirements (edge blackening, mount, labeling, etc.)

Minimum Order Quantity (MOQ): 1 piece for standard models. Volume discounts for 10+ pieces.
Lead Time: 1-2 weeks for standard models in stock. 3 weeks for custom specifications. Rush orders available upon

request.

6. Contact Information

Beijing Hengdingguang Technology Co., Ltd.

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Manufacturing: 15+ years experience | 67+ product types | 500+ global clients

Quality Assurance: 100% inspection | $\lambda/10$ surface flatness | Zero-defect shipping