

Optical Lens

K9 Double-Convex Lens

Cost-effective Visible Light Imaging Focusing Solution

- Premium Optical Material
- Precision Optical Specifications
- Rigorous Tolerance Control
- Versatile Specifications
- Protective Design Details



One Platform Many Possibilities

Contact Us sales@venuslabtech.com

Get a Quote



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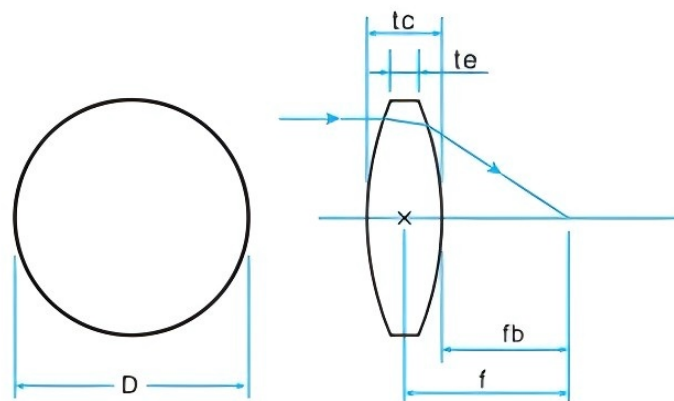
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Overview

Ideal Solution for Finite Conjugate & 1:1 Imaging

Our K9 Double-Convex (Bi-Convex) Lenses are precision-manufactured from high-quality Grade A K9 glass, the industry standard equivalent to N-BK7. Featuring two symmetric convex surfaces with equal radii of curvature, these lenses are specifically optimized for **finite conjugate** applications. They deliver superior performance when the object and image distances are roughly equal (e.g., **1:1 imaging** systems), making them a cost-effective choice for visible and near-infrared (NIR) focusing tasks.

Dimension:



Qualification

K9 Double-Convex (Bi-Convex) Lenses Specifications

Parameter	Specification
Material	K9 Grade A Optical Glass (N-BK7 equivalent)
Shape	Bi-Convex (Symmetric)
Design Wavelength ()	546.1 nm
Diameter Tolerance	+0.0 / -0.1 mm
Focal Length Tolerance	± 1%
Surface Quality	40-20 Scratch-Dig
Surface Flatness	/4 @ 632.8 nm
Centration	< 3 arc min
Clear Aperture	> 90% of Diameter
Chamfer	0.25 mm x 45°
Coating	Uncoated (Standard) / AR Coating (Optional)

Selection Chart

K9 Double-Convex (Bi-Convex) Lenses Selection Chart

Item No.	D (mm)	f (mm)	tc (mm)	te (mm)	fb (mm)	r (mm)	Centration
VLGLB4-4	4	4	2.16	1	3.21	3.73	3'
VLGLB6-6.4	6	6.4	2.5	1	5.6	6.23	3'
VLGLB6-8.4	6	8.4	2.1	1	7.6	8.3	3'
VLGLB6-30	6	30	1.3	1	29.8	31.14	3'
VLGLB10-10.8	10	10.8	4.6	2	9.2	10.38	1'
VLGLB10-15.6	10	15.6	3.6	2	14.4	15.57	1'
VLGLB15-16	15	16	5.9	2	14	15.57	1'
VLGLB15-30.6	15	30.6	3.8	2	29.4	31.14	1'

VLGLB20-21.2	20	21.2	7.1	2	18.8	20.76	1'
VLGLB20-26	20	26	6	2	24	25.95	1'
VLGLB20-31	20	31	5.3	2	29.1	31.14	1'
VLGLB25-25	25	25	8.96	2	21.846	24.19	1'
VLGLB25-31.2	25	31.2	7.2	2	28.8	31.14	1'
VLGLB25-50.8	25	50.8	5	2	49.2	51.9	1'
VLGLB25-100.6	25	100.6	3.5	2	99.4	103.8	1'
VLGLB25-150.5	25	150.5	3	2	149.5	155.7	1'
VLGLB25-200.5	25	200.5	2.8	2	199.5	207.6	1'
VLGLB25-250	25	250	2.5	2	248.35	257.97	1'
VLGLB25.4-50.8	25.4	50.8	5.1	1.9	49.2	51.9	1'
VLGLB25.4-100.6	25.4	100.6	3.5	1.9	99.4	103.8	1'
VLGLB25.4-190	25.4	190	2.8	2	188.16	195.8	1'
VLGLB30-31.7	30	31.7	9.7	2	28.3	31.14	1'
VLGLB30-51.1	30	51.1	6.4	2	48.9	51.9	1'
VLGLB30-80.8	30	80.8	4.7	2	79.2	83.04	1'
VLGLB30-120	30	120	4	2	119.5	124.58	1'
VLGLB30-150.6	30	150.6	3.4	2	149.4	155.7	1'
VLGLB30-180	30	180	3.2	2	179.5	186.5	1'
VLGLB30-200.5	30	200.5	3.1	2	199.5	207.6	1'
VLGLB40-51.7	40	51.7	10	2	48.3	51.9	1'
VLGLB40-101	40	101	5.9	2	99	103.8	1'
VLGLB50-52.7	50	52.7	15.8	3	47.3	51.9	1'
VLGLB50-101.5	50	101.5	9.1	3	98.5	103.8	1'
VLGLB50-151.2	50	151.2	7	3	148.8	155.7	1'
VLGLB50-201	50	201	6	3	199	207.6	1'
VLGLB50-251	50	251	5.4	3	249.1	259.5	1'
VLGLB50-300.8	50	300.8	5	3	299.3	311.4	1'
VLGLB50-400	50	400	4.3	3	398.58	412.7	1'
VLGLB100-202.5	100	202.5	15.2	3	197.5	207.6	1'

Service & Support

We are dedicated to delivering exceptional optoelectronic solutions to every client. From precision manufacturing and secure delivery to full-lifecycle technical support, we are here to ensure a seamless and reliable experience at every step.

1. Warranty Policy

Quality First, Worry-Free Operation

Warranty Period: We offer a **two-year** warranty service for all of our core optoelectronic products, effective from the date of shipment.

Coverage: We provide free repair or replacement services for malfunctions caused by material defects or workmanship errors under normal operating conditions.

Rapid Response: Upon receiving a warranty claim, we guarantee to initiate the assessment process within **24 hours** to minimize your equipment downtime.

2. Technical Support

Expert Team, Full-Process Guidance

Technical Consultation: Our team of senior optical engineers provides **24/7 online support** to assist with installation, commissioning, optical path alignment, and parameter optimization.

Scheduled Maintenance: We offer full-lifecycle maintenance recommendations, including firmware upgrades, optical component cleaning guidelines, and precision calibration services.

Training Services: We provide customized remote or on-site operational and safety training to ensure your team can operate the equipment efficiently and safely.

3. Logistics & Delivery

Precision Packaging, Global Reach

Professional Packaging: Given the fragile nature of optical instruments, we utilize industrial-grade shockproof, anti-static, and moisture-proof vacuum packaging to ensure zero damage during transit.

Logistics Partners: We partner with top-tier global logistics providers (**DHL / FedEx / UPS / SF Express**) to offer reliable shipping with real-time tracking.

Shipping Insurance: All shipments are fully insured to eliminate logistics risks.

4. Compliance & Certification


Strict Standards, Total Compliance

Quality Certification: Our manufacturing process is **ISO 9001 certified**, and our products comply with international standards such as **CE** and **RoHS**.

Export Compliance: "Committed to environmental responsibility, all our products comply with **RoHS 2.0** and **REACH** standards, ensuring safety and global compliance."

Explore Series

Model	r (mm)	te (mm)	fb (mm)	Centration	tc (mm)	D (mm)
VLGLB4-4	3.73	1	3.21	3'	2.16	4
VLGLB6-6	6.23	1	5.6	3'	2.5	6
VLGLB10-10	10.38	2	9.2	1'	4.6	10
VLGLB15-15	15.57	2	14	1'	5.9	15
VLGLB25.4-50	51.9	1.9	49.2	1'	5.1	25.4
VLGLB30-50	51.9	2	48.9	1'	6.4	30.0
VLGLB40-100	103.8	2	99	1'	5.9	40
VLGLB50-100	103.8	3	98.5	1'	9.1	50
VLGLB100-200	207.6	3	197.5	1'	15.2	100

 Get in touch with our team to explore configurations, request a quote, or learn more about customized solutions tailored to your needs.

Let us help you move science forward—faster and smarter.

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