

Optical Lens

K9 Plano-Convex Lens

Specifically designed for Infinite Conjugate Ratio applications

- Superior Material
- Minimized Spherical Aberration
- Extensive Specifications
- Best Cost-Performance Ratio
- Coating Options



One Platform Many Possibilities

Contact Us sales@venuslabtech.com

Get a Quote



Get Expert Advice
+658099 5547 (WhatsApp)



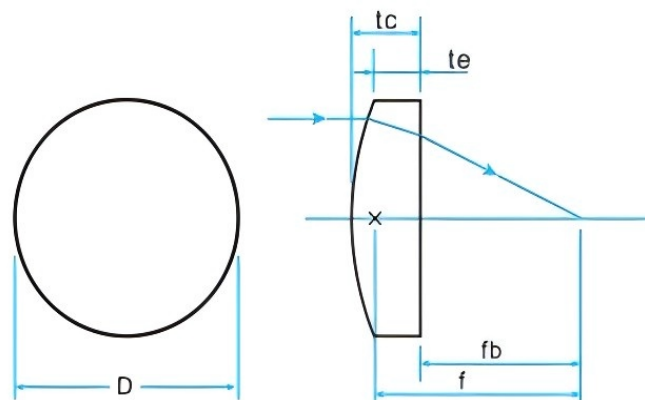
Visit Us
www.venuslabtech.com

Overview

It is the top cost-effective choice for beam collimation and focusing.

Designed for infinite conjugate ratio applications, the **K9 Plano-Convex Lens** is a fundamental optical component fabricated from high-quality **H-K9L (N-BK7)** glass, offering excellent transmission across visible to near-infrared spectra with superior chemical stability. Its asymmetric structure effectively minimizes spherical aberration, making it ideal for focusing collimated light into a spot or collimating a point source into a parallel beam. With an extensive range of specifications and optional AR coatings, it serves as the versatile "workhorse" for laboratory setups and industrial laser systems, delivering reliable performance at a highly competitive price point.

Dimension:



Qualification

General Specifications for K9 Plano-Convex Lenses

Parameter	Specification
Material	K9 (Grade A Optical Glass)
Shape	Plano-Convex
Design Wavelength (λ_c)	546.1 nm ($n=1.519$)
Surface Quality	40-20 Scratch-Dig
Clear Aperture	> 90%
Power (Fringes)	1-5
Irregularity (Fringes)	0.2-1
Centration	3' (arc min)
Chamfer	0.25 mm \times 45°
Dimension Tolerance	Diameter: +0.0 / -0.1 mm; Thickness: \pm 0.1 mm
Focal Length Tolerance	\pm 1%

Selection Chart

K9 Plano-Convex Lens Specification Table

Item No.	D (mm)	f (mm)	tc (mm)	te (mm)	fb (mm)	r (mm)	Centration
VLGLP6-8	6	8	2.3	1	6.5	4.15	3'
VLGLP6-25	6	25	3	2.6	23.02	12.98	3'
VLGLP10-10	10	10	4.3	2	7.2	5.19	1'
VLGLP10-15	10	15	3.8	2	12.5	7.79	1'
VLGLP12.7-12.7	12.7	12.7	6.3	2	8.7	6.59	1'
VLGLP12.7-15	12.7	15	6.2	2	10.9	7.8	1'
VLGLP12.7-25.4	12.7	25.4	3.5	2	22.8	13.18	1'
VLGLP12.7-30	12.7	30	3.4	2	27.8	15.6	1'
VLGLP12.7-35	12.7	35	3.2	2	34.9	16.1	1'

VLGLP12.7-38.1	12.7	38.1	3	2	36.12	19.77	1'
VLGLP12.7-50.8	12.7	50.8	2.8	2	48.95	26.37	1'
VLGLP12.7-100	12.7	100	2.4	2	98.42	51.9	1'
VLGLP12.7-125	12.7	125	2.4	2	123.42	64.88	1'
VLGLP12.7-150	12.7	150	2.3	2	148.5	77.9	1'
VLGLP12.7-175	12.7	175	2.3	2	173.49	90.83	1'
VLGLP12.7-200	12.7	200	2.2	2	198.55	103.8	1'
VLGLP12.7-250	12.7	250	2.2	2	248.55	129.75	1'
VLGLP12.7-300	12.7	300	2.2	2	298.55	155.7	1'
VLGLP15-15	15	15	6	2	11.1	7.79	1'
VLGLP15-20	15	20	5.2	2	16.6	10.38	1'
VLGLP15-30	15	30	3.9	2	27.4	15.57	1'
VLGLP20-30	20	30	5.6	2	26.3	15.57	1'
VLGLP20-40	20	40	4.6	2	36.97	20.76	1'
VLGLP20-50	20	50	4	2	47.4	25.95	1'
VLGLP25-25	25	25	11.65	2	17.32	12.97	1'
VLGLP25-35	25	35	7	2	30.4	18.17	1'
VLGLP25-50	25	50	5.2	2	46.6	25.95	1'
VLGLP25-75	25	75	4	2	72.4	38.93	1'
VLGLP25-80	25	80	3.9	2	77.4	41.52	1'
VLGLP25-100	25	100	3.5	2	97.7	51.9	1'
VLGLP25-125	25	125	3.1	2	122.96	64.87	1'
VLGLP25-150	25	150	3.1	2	148	77.85	1'
VLGLP25-175	25	175	2.86	2	173.11	90.83	1'
VLGLP25-200	25	200	2.8	2	198.2	103.8	1'
VLGLP25-250	25	250	2.6	2	248.3	129.75	1'
VLGLP25-300	25	300	2.5	2	298.2	155.7	1'
VLGLP25-350	25	350	2.4	2	348.42	181.65	1'
VLGLP25-400	25	400	2.4	2	398.42	207.6	1'
VLGLP25-450	25	450	2.4	2	448.42	233.55	1'

VLGLP25-500	25	500	2.3	2	498.48	259.5	1'
VLGLP25-800	25	800	2.2	2	798.55	415.2	1'
VLGLP25-900	25	900	2.2	2	898.55	467.1	1'
VLGLP25.4-25.4	25.4	25.4	12	2.48	17.5	13.23	1'
VLGLP25.4-38	25.4	38	6.5	1.9	33.72	19.72	1'
VLGLP25.4-50	25.4	50	5.2	1.9	46.6	25.95	1'
VLGLP25.4-75	25.4	75	4.05	1.9	72.33	38.93	1'
VLGLP25.4-100	25.4	100	3.5	1.9	97.7	51.9	1'
VLGLP25.4-125	25.4	125	3.2	1.9	122.89	64.88	1'
VLGLP25.4-150	25.4	150	3	2	148.03	77.85	1'
VLGLP25.4-175	25.4	175	2.89	2	173.03	90.83	1'
VLGLP25.4-200	25.4	200	2.8	2	198.2	103.8	1'
VLGLP25.4-250	25.4	250	2.6	2	248.3	129.75	1'
VLGLP25.4-300	25.4	300	2.5	2	298.4	155.7	1'
VLGLP25.4-400	25.4	400	2.4	2	398.4	207.6	1'
VLGLP25.4-500	25.4	500	2.3	2	498.4	259.5	1'
VLGLP25.4-600	25.4	600	2.3	2	598.49	311.4	1'
VLGLP25.4-700	25.4	700	2.2	2	698.55	363.3	1'
VLGLP25.4-800	25.4	800	2.2	2	798.55	415.2	1'
VLGLP25.4-1000	25.4	1000	2.2	2	998.55	519	1'
VLGLP25.4-1500	25.4	1500	2.1	2	1498.61	778.5	1'
VLGLP25.4-2000	25.4	2000	2.1	2	1998.61	1038	1'
VLGLP30-50	30	50	6.8	2	45.52	25.95	1'
VLGLP30-60	30	60	5.9	2	56.1	31.14	1'
VLGLP30-100	30	100	4.2	2	97.2	51.9	1'
VLGLP30-120	30	120	3.8	2	117.5	62.28	1'
VLGLP30-150	30	150	3.5	2	147.7	77.85	1'
VLGLP30-200	30	200	3.1	2	197.95	103.8	1'
VLGLP30-250	30	250	2.9	2	248.09	129.75	1'
VLGLP30-300	30	300	2.7	2	298.22	155.7	1'
VLGLP40-50	40	50	11.4	2	42.5	25.95	1'

VLGLP40-80	40	80	7.1	2	75.3	41.52	1'
VLGLP40-100	40	100	6	2	96	51.9	1'
VLGLP40-150	40	150	4.6	2	147	77.85	1'
VLGLP40-200	40	200	3.9	2	197.4	103.8	1'
VLGLP50-63	50	63	14	3	53.78	32.7	1'
VLGLP50-80	50	80	11.4	3	72.5	41.52	1'
VLGLP50-100	50	100	9.4	3	93.8	51.9	1'
VLGLP50-150	50	150	7.1	3	145.3	77.85	1'
VLGLP50-200	50	200	6.1	3	196	103.8	1'
VLGLP50-250	50	250	5.4	3	246.4	129.75	1'
VLGLP50-300	50	300	5	3	296.7	155.7	1'
VLGLP50-500	50	500	4.2	3	497.2	259.5	1'
VLGLP50-600	50	600	4	3	597.4	311.4	1'
VLGLP50.8-75	50.8	75	12.6	3	66.7	38.93	1'
VLGLP50.8-100	50.8	100	9.6	3	93.68	51.9	1'
VLGLP50.8-125	50.8	125	8.2	2.8	119.6	64.88	1'
VLGLP50.8-150	50.8	150	7.1	2.8	145.3	77.85	1'
VLGLP50.8-200	50.8	200	6.1	3	196	103.8	1'
VLGLP50.8-300	50.8	300	5	2.9	296.7	155.7	1'
VLGLP50.8-400	50.8	400	4.5	3	397.04	207.6	1'
VLGLP50.8-450	50.8	450	4.3	3	447.17	233.55	1'
VLGLP50.8-500	50.8	500	4.2	3	497.23	259.5	1'
VLGLP76.2-150	76.2	150	13.2	3	141.31	77.85	1'
VLGLP76.2-500	76.2	500	5.9	3	496.11	259.5	1'
VLGLP100-120	100	120	26	3	102.9	62.3	3'
VLGLP100-150	100	150	21.2	3	136.1	77.85	3'
VLGLP100-200	100	200	15.8	3	189.6	103.8	3'
VLGLP100-250	100	250	13	3	241.4	129.75	3'
VLGLP100-500	100	500	7.9	3	494.8	259.5	3'
VLGLP100-800	100	800	6	3	796	415.2	3'
VLGLP100-1000	100	1000	5.4	3	996.4	519	3'
VLGLP100-2000	100	2000	4.2	3	1997.2	1038	3'

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)
VLGLP6-8	4.15	1	6.5	3'	2.3	6
VLGLP10-15	7.79	2	12.5	1'	3.8	10
VLGLP12.7-25.4	13.18	2	22.8	1'	3.5	12.7
VLGLP15-20	10.38	2	16.6	1'	5.2	15
VLGLP20-40	20.76	2	36.97	1'	4.6	20
VLGLP25-50	25.95	2	47.4	1'	4	20
VLGLP25.4-100	51.9	1.9	97.7	1'	3.5	25.4
VLGLP30-60	31.14	2	56.1	1'	5.9	30
VLGLP40-100	51.9	2	96	1'	6	40
VLGLP50-100	51.9	3	93.8	1'	9.4	50
VLGLP50.8-200	103.8	3	196	1'	6.1	50.8
VLGLP76.2-150	77.85	3	141.31	1'	13.2	76.2
VLGLP100-500	259.5	3	494.8	3'	7.9	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.

[Get a Quote](#)



Get Expert Advice
+658099 5547 (WhatsApp)



Visit Us
www.venuslabtech.com