

# φ25.4 (BK7) Lens Kit | SLB-25.4-SET

RoHS

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Kit

Reasonable Lens

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This is a perfect lens kit suitable for use in many areas from teaching materials to research and development. The special Lens Kit comes with 27 lenses that are commonly used including plano convex (9 Focal lengths), biconvex (6 Focal lengths), plano concave (6 Focal lengths) and biconcave (6 Focal lengths).

- Outer diameter of the lenses are all 25.4mm diameter.
- Focal length are provided in a wide range of -200 - 1,000 mm.
- A special case made of wood is provided for convenient storage.



## Specifications

Part Number	SLB-25.4-SET
Material	BK7
Design Wavelength	546.1nm
Refractive Index	$n_e=1.519$
Coating	Uncoated
Clear Aperture	90% of the diameter
Surface Quality (Scratch-Dig)	20-10

Components							
Shape of Lenses	Part Number	Diameter $\phi D$ [mm]	Focal length $f$ [mm]	Edge thickness $t_e$ [mm]	Center thickness $t_c$ [mm]	Back focal length $f_b$ [mm]	Centration [']
Plano Convex Lenses	SLB-25.4-30P	φ25.4	30	1.7	8.3	24.5	<1
	SLB-25.4-50P	φ25.4	50	1.9	5.2	46.6	<1
	SLB-25.4-70P	φ25.4	70	1.9	4.2	67.2	<1
	SLB-25.4-100P	φ25.4	100	1.9	3.5	97.7	<1
	SLB-25.4-150P	φ25.4	150	2.0	3.0	148.0	<1
	SLB-25.4-200P	φ25.4	200	2.0	2.8	198.2	<1
	SLB-25.4-300P	φ25.4	300	2.0	2.5	298.4	<3
	SLB-25.4-500P	φ25.4	500	2.0	2.3	498.4	<3
	SLB-25.4-1000P	φ25.4	1000	2.0	2.2	998.5	<3
Biconvex Lenses	SLB-25.4B-25P	φ25.4	26.5	1.8	8.4	23.6	<1
	SLB-25.4B-50P	φ25.4	50.8	1.9	5.1	49.2	<1
	SLB-25.4B-70P	φ25.4	70.7	1.9	4.1	69.3	<1
	SLB-25.4B-100P	φ25.4	100.6	1.9	3.5	99.4	<1
	SLB-25.4B-150P	φ25.4	150.5	2.0	3.0	149.5	<1
	SLB-25.4B-200P	φ25.4	200.5	2.0	2.8	199.6	<1
Plano Concave Lenses	SLB-25.4-30N	φ25.4	-30	8.6	2.0	-31.3	<1
	SLB-25.4-50N	φ25.4	-50	5.3	2.0	-51.3	<1
	SLB-25.4-70N	φ25.4	-70	4.3	2.0	-71.3	<1
	SLB-25.4-100N	φ25.4	-100	3.6	2.0	-101.3	<1
	SLB-25.4-150N	φ25.4	-150	3.0	2.0	-151.3	<1
	SLB-25.4-200N	φ25.4	-200	2.8	2.0	-201.3	<1
Biconcave Lenses	SLB-25.4B-25N	φ25.4	-24.7	8.6	2.0	-25.4	<1
	SLB-25.4B-50N	φ25.4	-49.7	5.2	2.0	-50.4	<1
	SLB-25.4B-70N	φ25.4	-69.7	4.2	2.0	-70.4	<1
	SLB-25.4B-100N	φ25.4	-99.7	3.6	2.0	-100.4	<1
	SLB-25.4B-150N	φ25.4	-149.7	3.0	2.0	-150.4	<1
	SLB-25.4B-200N	φ25.4	-199.7	2.8	2.0	-200.4	<1