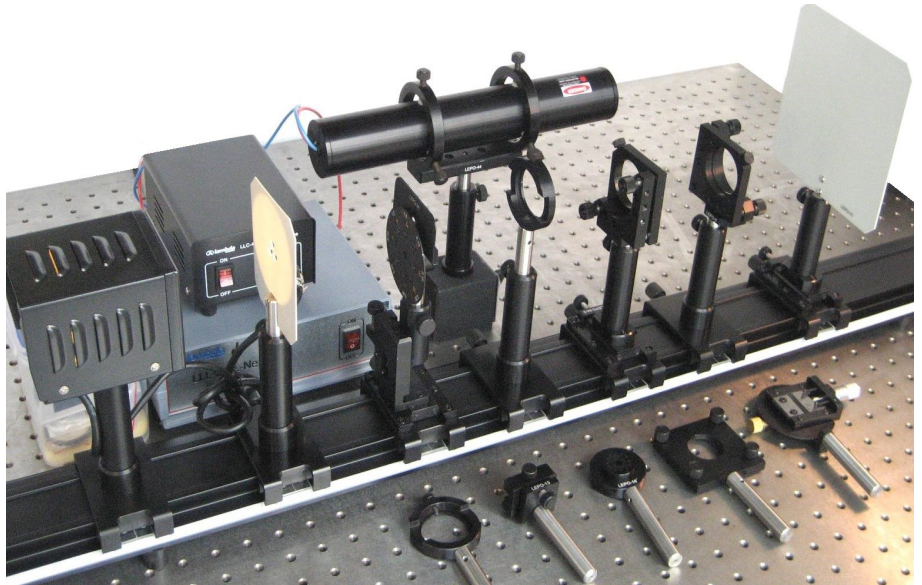


LEOK-1 Optics Experiment Kit - Basic Model

- *8 fundamental experiments*
- *Cost effective solution*
- *Detailed instruction manual*
- *Easy alignment*



LEOK-1 Optics Experiment Kit is developed for general physics education at universities and colleges. It can be used to construct eight experiments, covering the basic experiments in geometrical optics, physical optics and information optics. LEOK-1 offers an economic solution for covering a wide range of optical properties and principles. The instruction manual contains comprehensive materials including experimental configurations, principles, step-by-step instructions, and required parts with photos. By using this kit, students can enhance their experimental skills and problem solving ability.

Using this kit, the following 8 experiments can be conducted:

1. Measuring the focal length of a positive thin lens using auto-collimation method.
2. Measuring the focal length of a positive thin lens using displacement method.
3. Assembling a slide projector.
4. Young's double-slit interference.
5. Fresnel diffraction of a single slit.
6. Fresnel diffraction of a single circular aperture.
7. Abbe imaging principle and optical spatial filtering.
8. Pseudo-color encoding, theta modulation and color composition.

Specifications and Part List

Mechanical Hardware		
Carriers	LEPO-54-2 (4), 54-3 (2), 54-4(1)	7
Magnetic Base with Holder	LEPO-4/SZ-04	1
Two-Axis Tilt Holder	LEPO-8/SZ-07	2
Lens Holder	LEPO-9/SZ-08	2
Plate Holder A	LEPO-13/SZ-12	1
White Screen	LEPO-14/SZ-13	1
Object Screen	LEPO-15/SZ-14	1
Iris Diaphragm	LEPO-16/SZ-15	1
Multi-Pinhole Disk Assembly	LEPO-24/SZ-23	1
Single-Side Adjustable Slit	LEPO-42/SZ-40	1
Laser Holder	LEPO-44/SZ-42	1
Paper Clip	LEPO-51/SZ-50	1
Optical Rail	1 m; aluminum	1
Optical Components		
Beam Expander	$f' = 6.2$ mm	1
Mounted Lenses	$f' = 50, 150, 190$ mm	1
Plane Mirror	$\Phi 36$ mm x 4 mm	1
Transmission Grating	20 L/ mm	1
Two-Dimensional Orthogonal Grating	20 L/ mm	1
Transmission Characters with Grid		1
Zero Order Filter		1
Theta Modulation Plate		1
Double-Slit		1
Slide Show		1
Light Sources		
Bromine Tungsten Lamp	LLC-4 (12 V/30 W)	1
He-Ne Laser	LLL-2 (>1.0 mW@632.8 nm)	1