

# LEOK-1 Optics Experiment Kit



- *Eight experiment examples*
- *Geometric and physical optics*
- *Easy alignment*
- *Comprehensive Documents*
- *Cost effective solution*

The LEOK-1 Optics Experiment Kit is developed for general physics education in 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 can also be upgraded to include extra experiments by adding the corresponding parts from LEOK-3.

LEOK-1 offers an economic solution for covering a wide range of optical properties and principle. Eight experiments are all performed along the rail and are suitable for ordinary laboratory environments.

The instruction manual contains comprehensive materials including experiment setups, principles, procedures and required parts with photos.

Through selecting and assembling individual components into complete setups, students experimental skills and problem solving ability can be greatly enhanced.



## Experiment Examples

1. Measuring Focal Length Using Autocollimation
2. Measuring Focal Length Using Displacement Method
3. Assembling a Slide Projector
4. Young's Double-Slit Interference
5. Fresnel Diffraction of Single Slit
6. Fresnel Diffraction of Single Circular Aperture
7. Abbe imaging Principle and Optical Spatial Filtering
8. Pseudo-color Encoding, Theta Modulation and Color Composition

## Parts Included

Description	Part No./Specs	Qty
<b>Mechanical Hardware</b>		
1-D adjustable carrier	LEPO-54-2	4
2-D adjustable carrier	LEPO-54-3	2
3-D adjustable carrier	LEPO-54-4	1
Laser Holder	LEPO-44	1
Two-Axis Tilttable Holder	LEPO-8	2
Lens holder	LEPO-9	2
Plate Holder A	LEPO-13	1
White Screen	LEPO-14	1
Object Screen	LEPO-15	1
Magnetic Base	LEPO-4	1
Iris Diaphragm	LEPO-16	1
Single-Side Rotary Adjustable Slit	LEPO-42	1
Multi-Pinhole Disk Assembly	LEPO-24	1
Paper Clip	LEPO-40	1
Optical Rail	LEPO-54-1	1
<b>Optical Components</b>		
Lens Beam Expander	f =6.2 mm	1
Mounted Lenses	f =50, 150, 190 mm	1
Plane Mirror	36mm×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 Film		1
<b>Light sources</b>		
Bromine Tungsten Lamp	LLC-4/6V15W	1
He-Ne Laser	LLL-2/1.5mW@632.8nm	1

Note: Above product information is subject to change without notice