

OEK - 3

Optics Experiment Kit

- > **Physical optics, geometrical optics and fourier optics**
- > **Covering experiments**
- > **Comprehensive documents**
- > **Include experiment setups, principles and procedures**
- > **Cost effective solutions**



The OEK-3 Optics Experiment Kit is developed for general physics education in universities and colleges. It provides a complete set of optical and mechanical components as well as light sources. Almost all optics experiments required in general physics education (e.g geometrical, physical, and modern optics) can be constructed in sequence using these components. Through selecting and assembling corresponding components into the complete setups, students experimental skills and problem solving ability can be greatly enhanced.

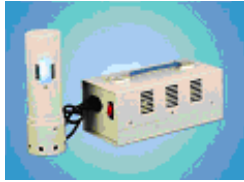
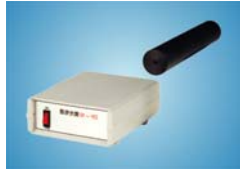
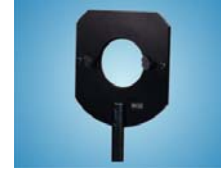
The instruction manual contains comprehensive materials including experiment setups, principles, procedures

OEK-3 can be used to construct different experiments which can be grouped following categories:

- **Lens Measurements:** Understanding and verifying lens equation and optical ray transform.
- **Optical Instruments:** Understanding the working principle and operation method of common laboratory optical instruments.
- **Interference Phenomena:** Understanding interference theory, observing various interference patterns generated by different sources, and grasping one precise measurement method based on optical interference.
- **Diffraction Phenomena:** Understanding diffraction effects, observing various diffraction patterns generated by different apertures.
- **Analysis of Polarization:** Understanding polarization and verifying types of polarised light.
- **Fourier Optics and Holography:** Understanding principles of advanced optics and their applications.

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Various Parts Available for Experiments :-**Low Pressure Mercury Lamp****He- Ne Laser****Aperture Adjustable Holder****Lens Holder****Grating/Prism Table****Loading Table****Laser Holder****Polaroid Holder****Optical Benches****White Screen****Magnetic Base****Micro Meter Driver****Single-Side Adjustable Slit****Optical Components**

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