

## **LEOK-2 Holography and Interferometry Kit**

- 5 fundamental experiments
- Cost effective solution
- Detailed instruction manual
- Easy alignment



The Holography and Interferometer Kit is developed for general physics education at universities and colleges. It provides a complete set of optical and mechanical components as well as light sources. The instruction manual contains comprehensive materials including experimental configurations, principles, step-by-step instructions, and required parts with photos. Using this kit, students can have a better understanding of the fundamentals and applications of holography and interferometry.

Using this kit, the following 5 experiments can be conducted:

- 1. Record and reconstruct holograms.
- 2. Make holographic gratings.
- 3. Construct a Michelson interferometer and measure the refractive index of air.
- 4. Construct a Sagnac interferometer.
- 5. Construct a Mach-Zehnder interferometer.

## **A lambda**

## **Specifications and Part List**

He-Ne Laser	LLL-2 (>1.0 mW@632.8 nm)	1
Aperture Adjustable Bar Clamp	SZ-19	1
Lens Holder	SZ-08	2
Two-Axis Tilt Holder	SZ-07	3
Plate Holder	SZ-12	1
Magnetic Base with Post Holder	SZ-04	5
Beam Splitter	50/50, 50/50, 30/70	1 each
Flat Mirror	Φ 36 mm	3
Lens	<i>f</i> ' = 6.2, 15, 225 mm	1 each
Loading Table	SZ-20	1
White Screen	SZ-13	1
Optical Rail	1 m; aluminum	1
Carrier with Holder		3
X-Trans Carrier with Holder		1
X-Z-Trans Carrier with Holder		1
Semiconductor Laser	5 mW at 650 nm	1 (optional)
Holographic Plate	12 pc silver salt plates (9x24 cm of each plate)	1 box
Air Chamber, Air pump with Gauge		1
Hand Tally Counter	4 digit, counts 0 ~ 9999	1