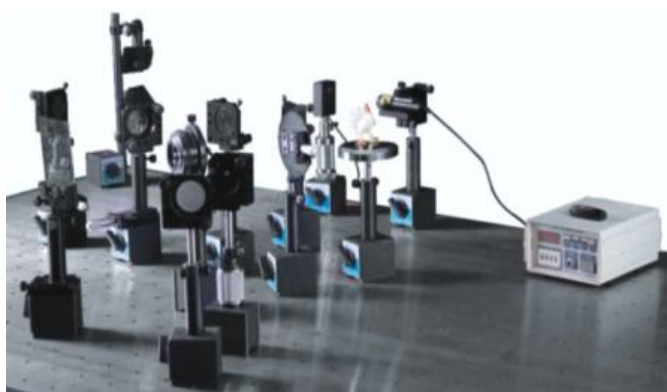


LEOK-11 Holography Experiment Kit - Complete Model



Description

Based on the basic model (LEOK-10), LEOK-11 is a complete model that includes conventional silver salt holographic plates with related accessories. Apart from the experiments that can be conducted with LEOK-10, LEOK-11 can be used to conduct more experiments in a darkroom with the aid of a tri-color safety lamp for transmissive and reflective hologram recording, including two- and three-dimensional hologram, one- and two-step rainbow hologram, image plane rainbow hologram, holographic reproduction, holographic device fabrication (transmissive or reflective holographic grating, and holographic lens), and holographic storage.

Feature

- Alternative recording media (photopolymer and silver salt)
- Alternative operational environments (room light and darkroom)
- 35-mW semiconductor laser as light source
- Portable illuminometer with wide range and high accuracy
- Continuous-ratio beam splitter for convenient light splitting
- Digital display with manual controlled operation
- Tri-color darkroom safety lamp
- Detailed instruction manual

Application

1. Fresnel holographic photography
2. Image plane holography
3. One-step rainbow holographic photography
4. Two-step rainbow holographic photography
5. Holographic grating fabrication
6. Holographic lens fabrication
7. High-density high-capacity holographic data storage
8. Holographic interferometry
9. Holographic reproduction

Specification

Semiconductor Laser	Center Wavelength: 650 nm
	Linewidth: < 0.2 nm
	Power > 35 mW
Exposure Shutter and Timer	0.1 ~ 999.9 s
	Mode: B-Gate, T-Gate, Timing, and Open
	Operation: Manual
Continuous Ratio Beam Splitter	T/R Ratio Continuously Adjustable
Single-Sided Rotary Slit	Slit Width: 0 ~ 5 mm (continuously adjustable)
	Rotation Range: $\pm 5^\circ$
Holographic Plate	Photopolymer and Silver Salt

Part list

Description	Qty
Semiconductor laser (LLL-1)	1
Exposure shutter and timer (LEPO-30)	1
Universal base (LEPO-4)	12
Two-axis adjustable holder (LEPO-8)	6
Lens holder (LEPO-9)	2
Plate holder (LEPO-13 & LEPO-13A)	1 each
Two-axis adjustable holder (LEPO-20)	1
Sample stage (LEPO-21)	1
Single-sided rotary slit (LEPO-42)	1
Objective lens	1
Beam expander	2

Lens	2
Plane mirror	3
Continuous ratio beam splitter	1
Small object	1
Red sensitive polymer plates	1 box (10 sheets, 90 x 240 mm per sheet)
Silver salt holographic plates	1 box (12 sheets, 90 x 240 mm per sheet)
Tri-color safety lamp	1
Illuminometer	1
Information slide	1
Fixed ratio beam splitter	2
Instruction manual	1