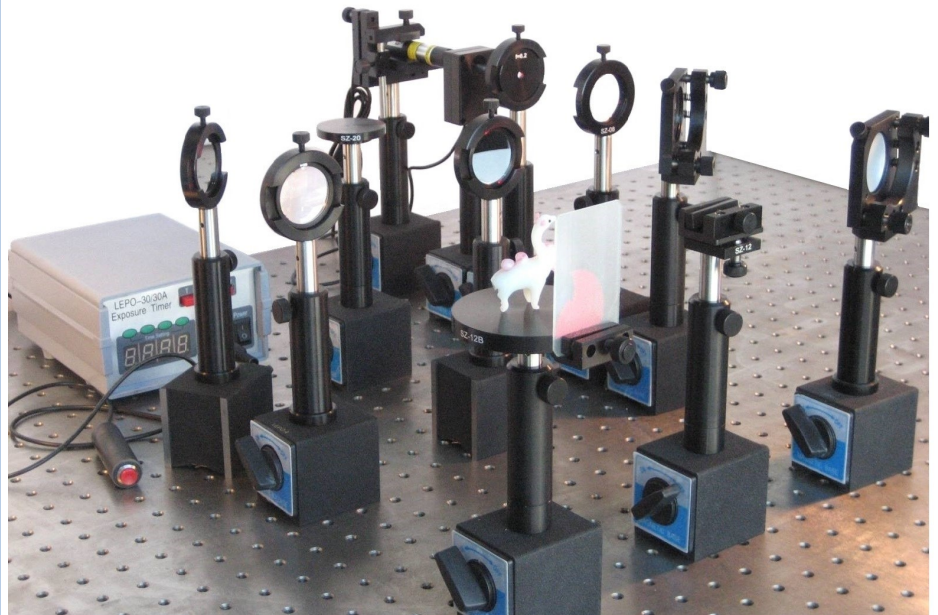


LEOK-11 Holography Experiment Kit - Complete Model

- *Alternative recording media (photopolymer and silver salt)*
- *Alternative operational environments (room light and dark-room)*
- *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*



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.

Experimental Contents

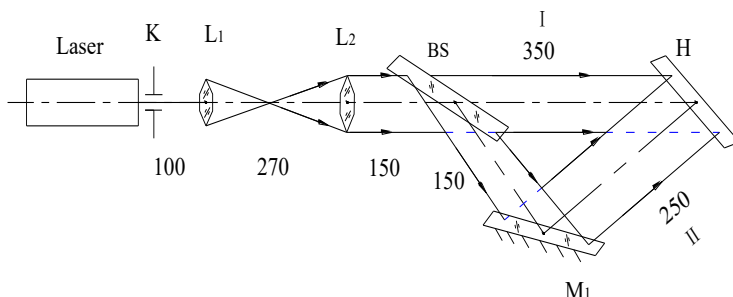
1. Fresnel holographic photography
2. Image plane holography
3. One-step rainbow holographic photography
4. Two-step rainbow holographic photography
5. Holographic grating fabrication
6. Holographic lens fabrication
7. High-density high-capacity holographic data storage
8. Holographic interferometry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

Specifications

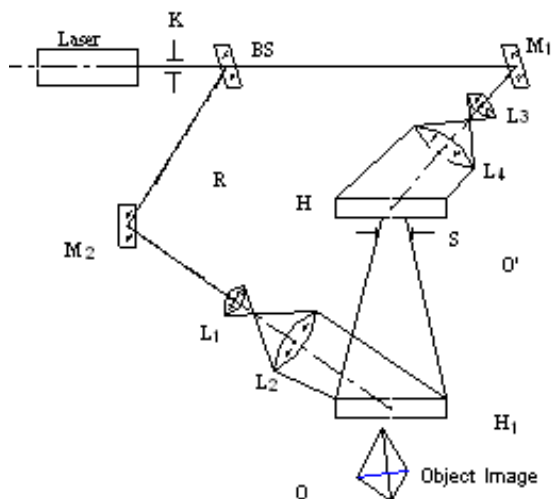
Semiconductor Laser	Center Wavelength: 650 nm
	Linewidth: < 0.2 nm
	Power > 35 mW
Exposure Shutter and Timer	0.1 ~ 999.9 s
	Mode: B-Gate, T-Gate, Timing, and Open
	Operation: Manual
Continuous Ratio Beam Splitter	T/R Ratio Continuously Adjustable
Single-Sided Rotary Slit	Slit Width: 0 ~ 5 mm (continuously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

Part List

Semiconductor laser (LLL-1)	1
Exposure shutter and timer (LEPO-30)	1
Universal base (SZ-04)	12
Two-axis adjustable holder (SZ-07)	6
Lens holder (SZ-08)	2
Plate holder (SZ-12 & SZ-12B)	1 each
Two-axis adjustable holder (SZ-19)	1
Sample stage (SZ-20)	1
Single-sided rotary slit (SZ-40)	1
Objective lens	1
Beam expander	2
Lens	2
Plane mirror	3
Continuous ratio beam splitter	1
Small object	1
Polymer plates (10 pcs of 9x24 cm/pc)	1 box
Silver salt plates (12 pcs of 9x24 cm/pc)	1 box
Tri-color safety lamp	1
Illuminometer	1
Information slide	1
Fixed ratio beam splitter	2
Instruction manual	1



Schematic of transmissive holographic grating fabrication



Schematic of rainbow hologram recording