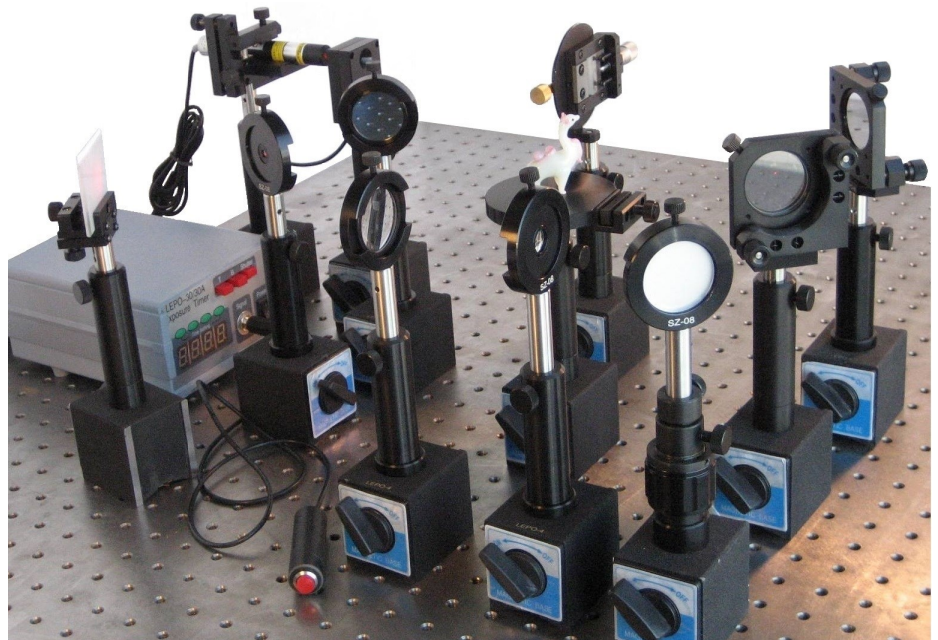


LEOK-64 Holography Under Room Light



- *Room-light operation*
- *White-light reconstruction*
- *Photopolymer plate for easy and fast developing*
- *Rainbow hologram*
- *40-mW semiconductor laser as light source*
- *Digital display with manual or remote controlled operation*
- *Detailed instruction manual*

Holography under room light is referred to as hologram recording and developing under room light using a photopolymer plate. By contrast, a conventional silver salt plate must be operated (exposing, developing, and fixing) in a darkroom. The advantage of room-light holography with white-light reconstruction is the convenience of operation with a high diffraction efficiency, so that the image of the object can be reconstructed very well.

This kit can be used to conduct the following experiments:

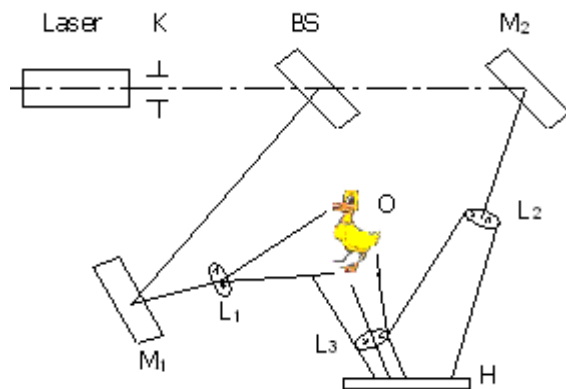
1. Fresnel (transmissive) holography
2. Reflective holography
3. Image plane holography
4. Two-step rainbow holography
5. One-step rainbow holography

Specifications

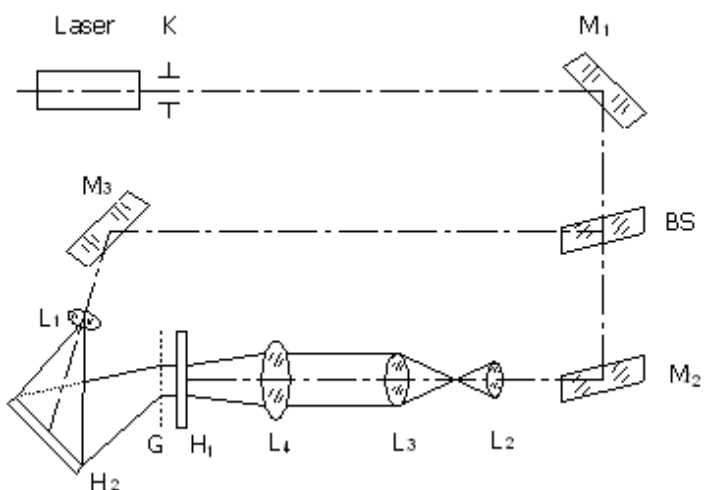
Semiconductor Laser	Center Wavelength: 650 nm
	Bandwidth < 0.2 nm
	Power: 40 mW
Exposure Shutter and Timer	0.1 ~ 999.9 s
	Mode: B-Gate, T-Gate, Timing, and Open
	Operation: Manual Control
Continuous Ratio Beam Splitter	T/R Ratio Continuously Adjustable
Fixed Ratio Beam Splitter	5:5 and 7:3
Holographic Plate	Red Sensitive Photopolymer Plate

Part List

Semiconductor laser (LLL-1)	1
Semiconductor laser Holder	1
Exposure shutter and timer (LEPO-30)	1
Fixed ratio beam splitter (5:5 & 7:3)	1 each
Photopolymer plate (10 pcs of 9x24 cm/pc)	1 box
Plate holder (SZ-12 & SZ-12B)	1 each
Tri-color safety lamp	1
Lens (f=4.5 (x1), 6.2 (x1), 150 (x2))	4
Plane mirror	3
Universal base (SZ-04)	10
Continuously variable beam splitter	1
Lens holder (SZ-08)	2
Two-axis adjustable holder (SZ-07)	6
Sample stage (SZ-20)	1
Small object	1
Electric blower	1
Ground glass	1
Small white screen	1
Height adjustable holder (SZ-03)	2
Two-axis translation base (SZ-02)	1
Illuminometer	1
Slit screen	1



Schematic of image plane hologram recording



Schematic of two-step hologram recording

Note: above product information is subject to change without notice.