

Experimental System Advanced Optics

This experimental system allows all important experiments in

- Geometrical optics
- Wave optics
- Holography
- Interferometry

to be performed.

All experiments are supported by corresponding handbooks, which contain detailed descriptions of experimental set-ups and procedures, as well as results of measurements.

By use of a base plate and magnetically held adjustment devices, which can be positioned jerkfree, 1 and 2 dimensional measuring set-ups with laser light sources can be quickly and dependably realized. By deflecting the light path, experiments with larger focal lengths can also be carried out on the base plate.

The high inherent stiffness and vibration damping of the base plate enables sensitive interferometer arrangements to be set up.

This handbook covers all experiments related to holography.

This HANDBOOK can be purchased separately. It contains the experiments listed below. Please ask for a complete equipment list. Ref No 22703

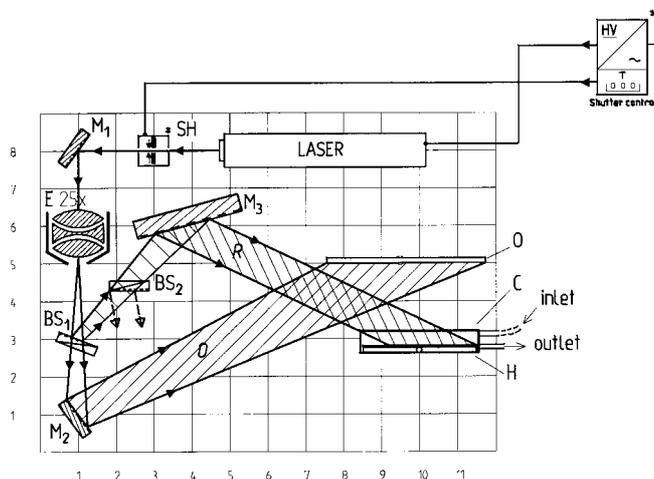


Transmission hologram (LH 4)

Handbook • Laser Physics II – Experiments with coherent light – Holography • No. 01400.02
11 described Experiments

- LH 1 (12900)**
5mW Version for the experiments – Fresnel zone plate
- LH 2 (12901)**
White light hologram
- LH 3 (12902)**
White light hologram with expansion system
- LH 4 (12903)**
Transmission hologram
- LH 5 (12904)**
Transmission hologram with expansion system
- LH 6 (12905)**
Transfer hologram from a master hologram.
- LH 7 (12906)**
Double exposure procedure

- LH 8 (12907)**
Time-averaging procedure I (with tuning fork).
- LH 9 (12908)**
Time-averaging procedure II (with loudspeaker).
- LH 10 (12909)**
Real time procedure I (bending of a plate).
- LH 11 (12910)**
Real time procedure II (oscillating plate).



Experimental set-up for real-time procedures as a holographic interferometer for a bending plate (* only required for 5 mW laser)