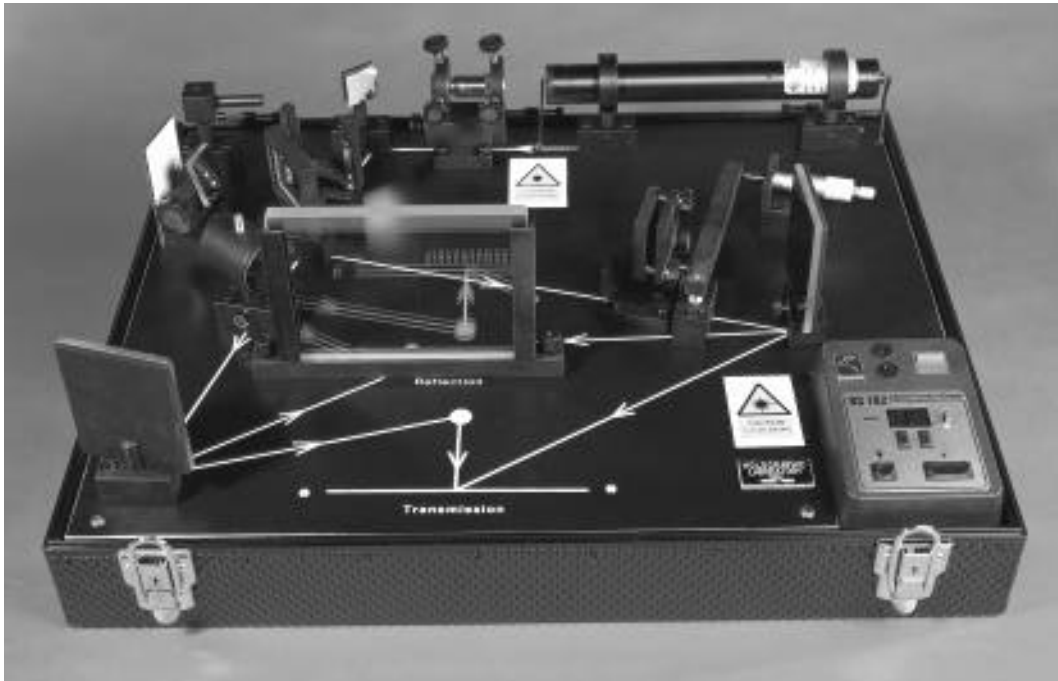




## HOLOGRAPHIC LABORATORY / INTERFEROMETER



### THE PTI HOLOGRAPHIC LABORATORY

The PTI Holographic Laboratory is a complete, affordable system for producing reflection and transmission holograms. Everything is included in one strong portable and lockable case. You can also purchase a complete processing kit that includes all you need to produce Holograms, from the film and chemicals to dishes and safelights.

### HOW IT WORKS

Open the case and lay the Laboratory on a flat surface. Built in shock absorbers automatically damp vibrations, and the components are mounted in pre-drilled holes, so positioning is automatic and alignment is simplified.

Put the film in the holder, place an object (preferably painted silver) in the marked position and set the electronic timer for the desired exposure, usually about 5-10 secs.

When you are ready, just press the button. An electro-mechanical shutter turns the laser beam on and off automatically.

### MICHELSON INTERFEROMETER

Add the Interferometry Accessory Kit, by screwing the unit into pre-drilled and tapped holes and you can perform advanced interferometric experiments and measurements. You can measure the wavelength of laser light, test inhomogeneties in transparent materials and determine the refractive indices of gases.

The movable mirror has a built in micrometer allowing you to resolve mirror movements to within 0.001mm.

- Complete Holographic System
- Adapts to Michelson Interferometer
- Portable
- Easy to use

## SPECIFICATION

### **A) PTI HOLOGRAPHIC LABORATORY (2400 110V 2400 220V)**

Includes:

#### **BASE PLATE**

Aluminium plate with Formica working surface, drilled and tapped holes for components, shock absorbing mounts for attachment to case.

#### **LASER**

2mW He/Ne polarised.

#### **ELECTRONIC TIMER/SHUTTER**

0.1 to 9.9 secs, 1 to 99 secs and 10 to 990 secs.

Electromechanical shutter.

#### **BEAM EXPANDER/SPATIAL FILTER**

x40 microscope objective and 12.5 micron pinhole.

#### **BEAM SPLITTER**

50/50 dichroic coated for holography and interferometry. A mirror is also supplied for viewing transmission holograms.

### **B) HOLOGRAPHIC FILM AND PROCESSING KIT (2401)**

Includes:

50 sheets of Agfa Holotest 8E75 T3 HD NAH Film (10.1 x 12.7cm).

2 x 500ml Developer, 500ml Bleach and 100ml Wetting Agent.

5 Developing Dishes (12.7 x 18cm).

2 Darkroom Safelights with Green Filters.

2 Film Tongs.

100 Rubber Gloves.

1 Blower Brush.

1 3-D Model.

1 Squeegee.

### **C) HOLOGRAPHIC FILM AND CHEMICAL REFILL KIT (2402 110 OR 220V)**

Includes:

50 sheets of Agfa Holotest 8E75 T3 HD NAH Film (10.1 x 12.7cm)

2 x 500ml Developer, 500ml Bleach and 100ml Wetting Agent.

### **D) INTERFEROMETER ACCESSORY KIT (2403)**

Includes:

Mirror and Mount, adjustable in X,Y and Z axis.

Micrometer and Mount, 0.01mm movement per division.

Micrometer Lever Arm, 10:1 reduction to move mirror 0.001mm per division along Z axis.



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