



55921 Optics Bench is a versatile system designed to provide a comprehensive introduction to laboratory optics. It clarifies all the basic concepts of light and optics. Setup includes an optics bench Concave, convex lenses and mirrors of different focal length. This Optics Bench provides the basic knowledge about properties of light such as Refraction, Reflection, Dispersion and Total internal reflection. Experiments such as determination of focal length of concave, convex lenses and mirrors can also be performed.

#### **Features**

- 1. Ideal System for performing many Experiments
- 2. A comprehensive and self contained optics
- 3. A complete system with a light source, Bench and all other accessories
- 4. Fixed and Sliding stands provided
- 5. Accessories are provided in a good quality carrying case

## Object

- 01. Study of the image formation of source
- 02. Study of Introduction of ray optics by ray
- 03. Study of Verification of Reflection of light
- 04. Study of determine Refractive index of semi circle (D-shape) lens by Snell's law
- 05. Study of Verification of Reversibility of light
- 06. Study of determine critical angle and obtain **Total Internal Reflection**
- 07. Study of Dispersion of light
- 08. Study of Convergent and Divergent lens by image and object relationships

- 09. Study of measure Focal Length of Convex lens using Basic Lens Equation
- 10. Study of measure magnification of image of Convex lens
- 11. Study of determine Focal length of Concave mirror by two Pin method
- 12. Study of determine Focal length of Convex lens by two Pin method

### **Technical Specifications**

Optics Bench Length: 1 m

: 150 W Incandescent Light Source

light source

# **Converging and Diverging lens**

Focal length : 00mm, 150mm each

Diameter : 50mm each

### **Concave and Convex mirror**

Focal length : 100mm, 150mm each

Diameter : 50mm each

# **Plane Mirror**

Dimensions (mm) : W 100 x D 75 x H 2

D-Shape lens

Dimensions (mm) : W 100 x D 50 x H 20

#### Prism

Dimensions (mm) 50 x 50 equilateral Mains Supply : 230V ±10%, 50Hz

# **Included Accessories**

Different Shapes of slits: Mirror Stand : Ray Table Lens Stand : Two Optical Pins Viewing Screen

Note: Specifications are subject to change.

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