



Product Overview

The Measurement of Optical Bench Using Concave or Convex Lens Experimental Setup is designed to study image formation and determine focal length using an optical bench arrangement. The setup supports experiments with both convex and concave lenses and is widely used in physics laboratories for understanding geometrical optics principles.

System Components

1. Optical Bench
2. Convex / Concave Lens
3. Illuminated Object
4. Screen
5. Meter Scale

Technical Specifications

1. Optical Bench

- Length: 1 – 1.5 meters
- Material: Anodized aluminum / stainless steel
- Scale Resolution: 1 mm
- Mounting: Adjustable sliding carriers
- Application: Accurate alignment of optical components

2. Convex / Concave Lens

- Lens Type: Convex and/or Concave

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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- Material: Optical-grade glass
- Focal Length: 10 – 30 cm (typical)
- Diameter: 25 – 50 mm
- Surface Finish: Polished, scratch-resistant
- Application: Image formation and focal length measurement

3. Illuminated Object

- Type: Illuminated object with arrow/slit pattern
- Light Source: LED / incandescent lamp
- Power Supply: Low-voltage DC
- Brightness: Uniform illumination
- Application: Object for image formation

4. Screen

- Material: Matte white screen
- Size: Standard laboratory size
- Mounting: Adjustable holder compatible with optical bench
- Application: Observation and measurement of sharp images

5. Meter Scale

- Length: 1 meter
- Least Count: 1 mm
- Material: Stainless steel / rigid plastic
- Application: Measurement of object and image distances

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