



Product Overview

The Verification of Snell's Law Experimental Setup is designed to study and verify the laws of refraction of light at the interface between two media. This system uses a laser source and a glass slab to accurately measure angles of incidence and refraction, making it ideal for physics laboratories and optical education.

System Components

1. Laser Module
2. Glass Slab
3. Protractor
4. White Sheet
5. Scale

Technical Specifications

1. Laser Module

- Laser Type: Semiconductor Laser Diode Module
- Operating Wavelength: 630 – 650 nm (Red)
- Output Power: ≤ 5 mW
- Mode of Operation: Continuous Wave (CW)
- Beam Type: Collimated, narrow beam
- Power Supply: Battery operated / DC adapter
- Safety Class: Class II / Class IIIa

2. Glass Slab

- Material: Optical-quality glass
- Shape: Rectangular slab
- Thickness: 5 – 10 mm (typical)
- Refractive Index: ~ 1.5

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



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- Surface Finish: Plane and parallel surfaces
- Application: Refraction and lateral displacement studies

3. Protractor

- Type: Semi-circular / Circular
- Measurement Range: 0° – 180°
- Least Count: 1°
- Material: Transparent plastic
- Application: Measurement of angles of incidence and refraction

4. White Sheet

- Material: Matte white paper / board
- Size: A4 or larger
- Application: Ray tracing and marking of light paths

5. Scale

- Length: 15 – 30 cm
- Least Count: 1 mm
- Material: Plastic / stainless steel
- Application: Measurement of distances and alignment

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