



Optics Bench

Nvis 6006



Nvis 6006 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

- Ideal System for performing many Experiments
- A comprehensive and self contained optics system
- A complete system with a light source, Bench and all other accessories
- Fixed and Sliding stands provided
- Accessories are provided in a good quality carrying case
- Online product tutorial

Scope of Learning

- Study of the image formation of source
- Study of Introduction of ray optics by ray tracing
- Study of Verification of Reflection of light
- Study of determine Refractive index of semi circle (D-shape) lens by Snell's law
- Study of Verification of Reversibility of light
- Study of determine critical angle and obtain Total Internal Reflection
- Study of Dispersion of light
- Study of Convergent and Divergent lens by image and object relationships
- Study of measure Focal Length of Convex lens using Basic Lens Equation
- Study of measure magnification of image of Convex lens
- Study of determine Focal length of Concave mirror by two Pin method
- Study of determine Focal length of Convex lens by two Pin method

Technical Specifications

Optics Bench Length	: 1 m
Light Source	: 150 W Incandescent light source
Converging and Diverging lens	
Focal length	: 100mm, 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 $\pm 10\%$, 50Hz
Included Accessories	
Different Shapes of slits	: Mirror Stand
Lens Stand	: Ray Table
Viewing Screen	: Two Optical Pins