



Fresnel's Biprism Setup

Nvis 6028



Nvis 6028 Fresnel's Biprism Setup illustrates the phenomenon of interference of light. We can find the wavelength of monochromatic light source like LASER, Sodium lamp etc. Students can also understand the concept of interference, image formation and width of fringes. The Fresnel Biprism consists of two prism joined together to form an isosceles triangle. Light from the slit hits the prism and is refracted through each half of the prism. This light then interferes with itself to produce an interference pattern like Young's Double Slit.

Features

- A comprehensive and self contained optics system
- A complete system with a Light Source, Bench and all other accessories
- Micrometer eyepiece for accurate measurement
- Variable slit with precise movement
- High precision scale of 0.005 mm least count
- Sliding uprights are provided
- Sodium Lamp as a monochromatic source
- Convex lens is used for focusing image
- Online product tutorial

Scope of Learning

- Determination of the wavelength of the monochromatic light with the help of Fresnel Biprism.

Technical Specifications

Optics Bench

Length : 1 m

Sodium Lamp

Wavelength : 5893Å

Wattage : 35W

Biprism

Dimension : 50 x 40 mm

Material : Glass

Refractive Index : 1.54

Convex Lens

Type : Double Convex

Focal Length : 100 mm

Diameter : 50 mm

Micrometer Eyepiece

Range : 30-0-30 mm

Least Count : 0.005 mm

Screen

Horizontal Scale : 100-0-100 mm

Vertical Scale : 85-0-85 mm

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