55937 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

1. A comprehensive and self contained optics system
2. A complete system with a Light Source, Bench and all other accessories
3. Micrometer eyepiece for accurate measurement
4. Variable slit with precise movement
5. High precision scale of 0.005 mm least count
6. Sliding uprights are provided
7. Sodium Lamp as a monochromatic source
8. Convex lens is used for focusing image

Object

1. 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

Note: Specifications are subject to change.

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