



Along with the Fresnel double mirror experiment, this experiment with a Fresnel biprism is another one of historical significance which was performed in the 18th and 19th centuries to demonstrate the wave theory of light. The surface of the Fresnel biprism struck by the light emitted from a light aperture encompass an angle of almost 180° . If a diverging beam of light strikes the edge of the biprism, two diverging coherent light beams are created which appear to emerge from two virtual slits and interfere on the far side of the biprism. The students should first make themselves familiar with the general setup of the Fresnel experiment and describe the interference patterns.

Technical Specifications :

Optical Bench

Length	:	1.0 m is made of aluminum alloy
	:	Linear scale with 1mm graduation is providing on bench for quick measurement
	:	Removable leveling feet for proper balance
	:	Riders can be locked anywhere without removing riders already on bench with 40mm long post
	:	Section size 78x35mm

	:	Riders provided two fix and two variable movement with 15mm micrometer
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Bi-Prism Assembly	:	Made up of brass parts in heavy quality
Bi-Prism Holder	:	1no.
Micrometer Eyepiece	:	Ramsen`s Eye-piece 10 X fitted on metallic frame with micro metric motion
Optical Slit	:	Metallic frame with fitted screw adjuster slit non micrometric motion.

Optional :

Sodium Light Source	:	Sodium Lamp 55 Watt,
Transformer	:	55 Watt for sodium lamp
Housing	:	Wooden with three holes for mounting sodium lamp.

Photographs are for reference only final product may vary

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