



55887 Experiment set-up has designed specifically To STUDY OF DIFFRACTION OF LIGHT AT A SINGLE APERTURE (STUDY OF DIFFRACTION OF LIGHT BY A PIN WHOLE) by laser using and to determine the radius of the slit. The set-up consists of an optical bench, Diode laser, screen and single pin aperture. The Set up is absolutely self-contained and requires no other apparatus. Practical experience on this set up carries great educative value for Science and Engineering Students.

OBJECT

TO STUDY OF DIFFRACTION OF LIGHT AT A SINGLE APERTURE
(STUDY OF DIFFRACTION OF LIGHT BY A PIN WHOLE)

FEATURES

The complete experiment setup consists of the following: -

- 01 OPTICAL BENCH : Two 150cm long steel rods 3/4" dia. forming a bench with end supports having leveling screws. One of the two steel rods is graduated in cm and mm. It has four riders, two with transverse motion & two fixed.
- 02 He-Ne DIODE LASER WITH POWER SUPPLY.
MAXIMUM OUTPUT : 2 mW
WAVE LENGTH : About 670 nm visible red
POWER SUPPLY : Included with ON/OFF switch working on 230 V mains supply.
- 03 DOUBLE CONVEX LENS : Diameter 50 mm FL 10 cm with lens holder
- 04 SLIT : 7.5 x 7.5cm Aluminum plate (0.5mm diameter hole) with stand
- 05 SCREEN : 10 x 10cm with white Art Paper with stand
- 06 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

Note: Specifications are subject to change.

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