



OMEGA TYPE ES-387 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.

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

OMEGA ELECTRONICS