



55861 Experimental Set-up has been designed specifically to determine the wavelength of the laser using grating and to determine the slit width. The set-up consists of an Optical bench, Diode laser, Optical screen, Double convex lens, Slit, Diffraction grating etc.

The set-up is complete in all respects and requires no other apparatus. Practical experience on this set-up carries great educative value for Science and Engineering Students.

OBJECT

- 01 To determine the Wavelength of the Laser using Grating.
- 02 To determine the Slit Width.

FEATURES

The Complete Experimental Set-up consists of the following :

01 OPTICAL BENCH :

100cm long steel rods $\frac{1}{2}$ " dia forming a bench with and supports having leveling screws. One of the two steel rods is graduated. It has four riders two with transverse motion & two fixed.

02 DIODE LASER WITH POWER SUPPLY.

MAXIMUM OUTPUT : 0.5 mW

WAVE LENGTH : About 670 nm visible red

POWER SUPPLY : Included with ON/OFF switch working on 230 mains.

03 OPTICAL SCREEN : about 10cm x 10cm with graph on it and can be fitted into rider.

04 DOUBLE CONVEX LENS: 50 mm dia & F.L. 10cm.

05 OPTICAL SLIT : Optically true, precision ground stainless steel jaws. The jaws open uniformly all along through the milled head.

06 DIFFRACTION GRATING: Hilger & Watts Type, 15000 line per inch/6000 lines per cm.

07 LENS HOLDER : FOR DIFFRACTION GRATING

08 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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