OMEGA®

A SIGN OF QUALITY PRODUCT

LASER : DIFFRACTION EXPERIMENTS
OMEGA TYPE ES-361

OMEGA TYPE ES-361 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 consist of an Optical bench, Diode laser, Optical screen, Double convex lens, Slit, Diffraction grating etc.

The set-up is complete in all respect 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 ½" 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 LASER DIODE WITH POWER SUPPLY.
MAXIMUM OUTPUT : 0.5 mW
WAVE LENGTH : About 670 nm visible red
POWER SUPPLY : Included with ON/OFF switch working on 230VAC ±10% AT 50Hz.

03 OPTICAL SCREEN : about 10.25" x 5.5" 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.

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