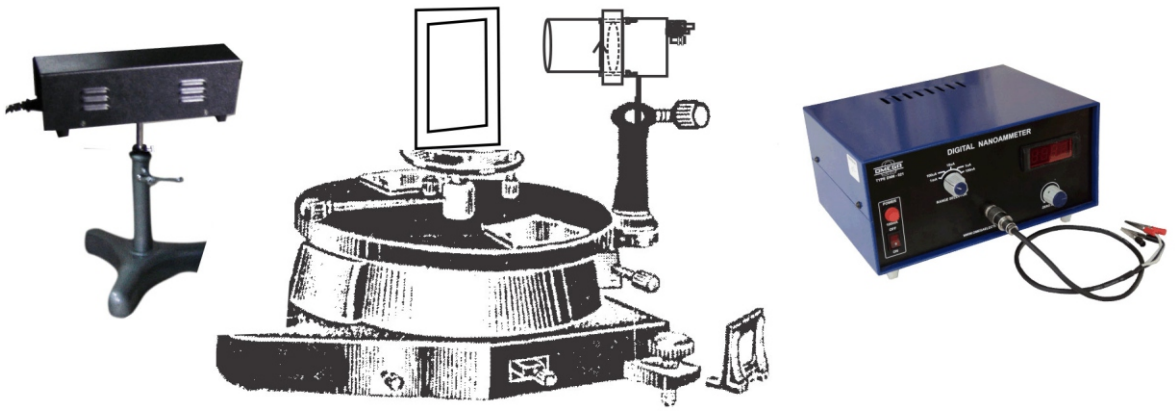
OMEGA®

A SIGN OF QUALITY PRODUCT

WAVE LENGTH OF LASER LIGHT BY DIFFRACTION GRATING METHOD

OMEGA TYPE ES-316



OMEGA TYPE ES-316 Experimental Set Up has been designed specifically for determine wave length of Laser Light by diffraction grating method. The set-up consists of Circular Table, Diode Laser, Laser detector, Diffraction Grating, Nanoammeter, Reading Lens and Spirit Level.

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 wave length of Laser Light by diffraction grating method.

FEATURES

The complete Experimental Set-up consists of the following items.

01 He-Ne LASER WITH POWER SUPPLY

Maximum output : 1 mW

Wave length : 670 nm visible red

Power supply : Included with ON/OFF switch working on 230 mains.

02 CIRCULAR TABLE : Spectrometer scale 6" dia circle with vernier but without Collimator & Telescope. It has two holders one for laser & other for Laser detector.

03 LASER DETECTOR : Composition silicon Laser detector mounted in Aluminum case.

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

05 NANOAMMETER : OMEGA TYPE DNM–021, Range 100nA, 1uA, 10uA, 100uA, DISPLAY 3½ digit Seven Segment LED

06 READING LENS : 50 mm diameter with handle

07 SPRIT LEVEL : 60 mm length

08 Weight : 9.2 Kg. (Approx.)

09 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

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