



55841 Experimental Set-Up has been designed specifically to determine the wavelength of monochromatic light by diffraction at a Straight Edge. The set-up consists of Optical bench with uprights, Sodium lamp, Micrometer eye piece, Optical Slit, Straight Edge (Blade) with Holder. 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

To determine the wavelength of Monochromatic Light by Diffraction at a Straight Edge.

FEATURES

The complete Experimental Set-up consists of the followings :

01 OPTICALBENCH :

Two 150 cm long steel rods 3/4" dia. forming a bench with end supports having levelling screws. One of the two steel rods is graduated in cm and mm. It has three riders, two with transverse motion.

02 MICROMETER EYE PIECE :

A Ramsden 10X eye piece carried on a slide which moves along a micrometer screw. The movement is read on a 30-0-30 mm steel scale and directly on micrometer head to .001 cm. No backlash.

03 OPTICALSLIT : Optically true, precision ground stainless steel jaws. The jaws open uniformly all along through the milled head.

04 STRAIGHTEDGE : Straight Edge (Blade) with Holder

05 SODIUM LIGHTSOURCE : Sodium light source complete with sodium lamp 35 watt with vacuum jacket, Transformer & Wooden Box having four holes with slide covers one each on every side at different heights.

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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