

IV-E623 Study Of Diffraction At Straight Edge Experiment



Experiment:

- To find the wavelength of the sodium light using Straight Edge.

Product Detail:

- The apparatus consists of an optical Bench on which components are mounted using movable rides. For setting up the experiment, slit, eye piece and Lloyd Mirror are adjusted so as to obtain well defined bright and dark fringes. Here sodium Vapour lamp is used as light source.
- Optical Bench: For Straight Edge Experiment, consists of two S.S rods, supported by heavy cast Iron feet, provided with 4 metal riders. Two of the sliders have transverse motion and one rod is engraved in mms. Improved design, 46 inches long.
- Optical Slit: Optically true stainless jaws, spring action for opening of jaws eliminated to ensure original accuracy even after prolonged use. Jaws open uniformly all along through a milled head. Jaw alignment tested for optical accuracy.
- Straight Edge: Knife with mounted on Rod.
- Lens Holder: Lens holder is automatic spring action for equal opening and closing both sides.
- Micrometer Eyepiece: Ramsden Eyepiece, 10x, carried on a slider which moves along a micrometer screw accurately made L.C. 0.01mm.

Apparatus Supply:

- Sodium Lamp
- Sodium Transformer
- Sodium Lamp House