Experiment(s):

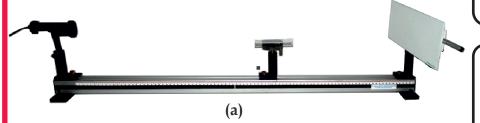
- 1. Determination of slit width.
- 2. Determination of wavelength of Laser using mm scale as grating.
- 3. Determination of wavelength of Laser using diffraction grating.

(For more details, procedure & manual visit: www.kamaljeeth.net)

Reference: Lab Experiments Journal vol-4, No.1, Page-1

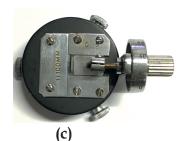
Experiment setup consists:

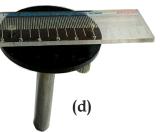
- a) Optical bench with fixtures & screen
- b) Semiconductor diode Laser with power supply
- c) Adjustable slit
- d) mm graduation scale & stand
- e) 3 in 1 grating

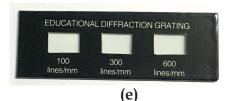














Diffraction pattern - slit



Diffraction pattern - grating

Specifications:

a) Optical bench

Length: 1 m

Fixture: Three (for Laser source, grating/scale & screen)

Material: Aluminium & cast

iron

b) Semi-conductor diode Laser

Wavelength: 625 nm (Red)
Power: External power supply,
mains operated (Included)
Base: Adjustable height

Power: 2 mW

c) Adjustable slit

Maximum slit width: 5 mm Minimum slit width: 0.1 mm Slit length: 15mm

d) mm graduation scale

mm graduation on acrylic scale magnetically placed on base

e) 3 in 1 Grating

3 gratings of grating constant 100 LPI, 300 LPI & 600 LPI



KAMALJEETH INSTRUMENTS

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