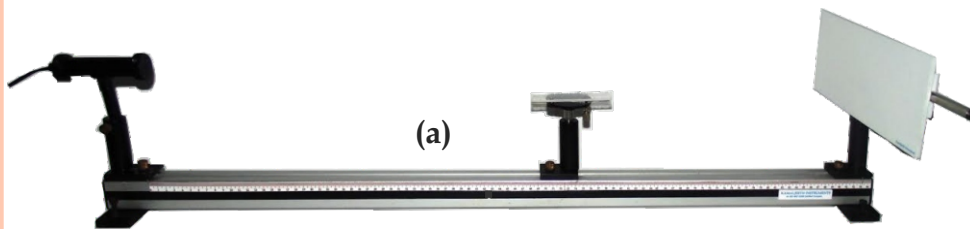


Experiments Conductible:

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.

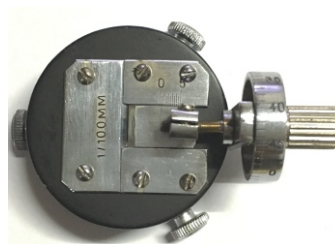
(For more details, procedure & manual visit: www.kamaljeeth.net)



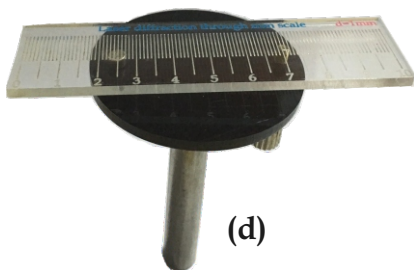
(a)



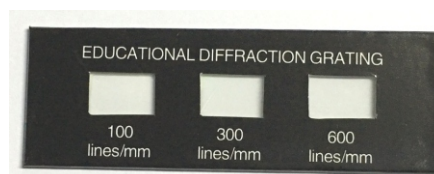
(b)



(c)



(d)



(e)



Diffraction pattern - slit



Diffraction pattern - grating

Experiment Setup Consists:

- a) Optical Bench with fixtures & screen
- b) Semiconductor diode Laser with power supply
- c) Adjustable slit
- d) mm graduation scale & stand

Specifications:

a) Optical Bench:

Length: 1m

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 :

Max slit width: 5 mm

Slit length: 15mm

min slit width: 0.1mm

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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