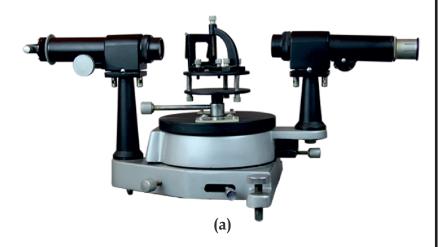
RESOLVING POWER OF GRATING

Experiment(s):

- 1. Determination of grating constant and resolving power of grating
- 2. Measurement of wavelengths of mercury spectrum

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

Reference: Lab Experiments Journal vol-11, No.1, Page-45 Lab Experiments Journal vol-15, No.4, Page-278









Experiment setup consists:

- a) Spectrometer
- b) Diffraction grating
- c) Mercury vapour lamp set

Specifications:

a) Spectrometer

Scale: 6" diameter (Brass) Base: Cast iron with levelling

All moving parts made of Brass for accuracy

Collimator with adjustable slit Horizontal axis alignment for collimator: Yes

Horizontal axis alignment for telescope: Yes

Centre table: Height adjustable with provision for prism and grating holder

Telescope with user changeable cross wire and eyepiece

b) Diffraction grating

Grating constant: 15000

Lines/inch

Window size: 40 mm x 30 mm

c) Mercury vapour lamp

Bulb: Philips/Osram

Power: 160 W

Transformer free operation Enclosure: Wooden with slits Rated Input: 220 V/50 Hz 110 V/60 Hz or



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