LASER DIFFRACTION - GRATING

Model : LDG-2011
Model : LDG-2013

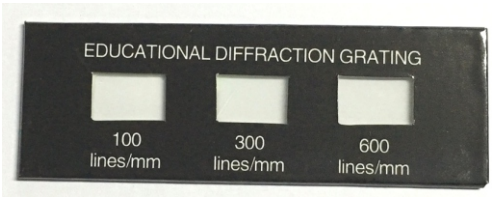
Experiment(s):

1. Determination of wavelength of Laser

2. Determination of Grating constant

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

(a)



(b)

(c)

(d)

Reference : Lab Experiments Journal vol-6, No.1, Page-22

Experiment Setup Consists:

a) Laser & Power supply
b) 3 in 1 window Grating
c) Single window Grating
d) White Screen & Grating holder

Specifications:

a) Laser:
Type: Semiconductor Diode Laser
Wavelength: 625nm (Red)
Output Power: 3mW
Mount: Cast Iron Base with levelling screw

Power Supply:
Output: Suitable for 3mW & 5mW Semiconductor Lasers
Input: Mains operated 220V, 50Hz or 110V, 60Hz, Mains cord: 2 pin

b) 3 in 1 Window Grating:
Three different grating suitable for Laser diffraction
100 Lines/mm, 300 Lines/mm & 600 Lines/mm

c) Single Window Grating:
Single grating suitable for Laser diffraction of 100 Lines/mm

d) Screen & Grating holder:
Metal white screen and grating holder suitable for any standard grating

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