

## Experiment(s):

1. Determination of wavelength of Laser
2. Determination of grating constant

(For more details, procedure & manual visit: [www.kamaljeeth.net](http://www.kamaljeeth.net))

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: 625 nm (Red)  
Output power: 3 mW  
Mount: Cast iron base with levelling screw

#### Power supply

Output: Suitable for 3 mW & 5 mW semiconductor Lasers  
Rated Input: 220 V/50 Hz  
or 110 V/60 Hz  
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



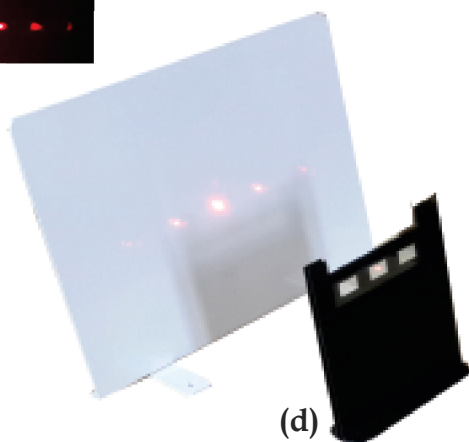
(a)



(b)



(c)



(d)



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