

**Experiment(s):**

1. Determination of wavelength of Laser
2. Determination of diameter of aperture

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

Reference : Lab Experiments Journal vol-3, No.4, Page-284

**Experiment setup consists:**

- a) Laser & power supply
- b) Light detecting microscope
- c) Single hole circular slit

**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) Light detecting microscope**

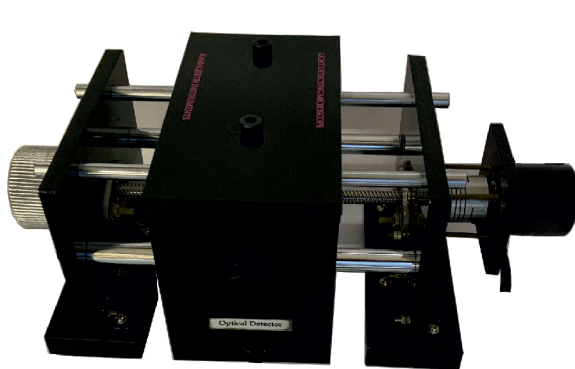
Bed travel: 100 mm (One Axis)  
 Resolution: 0.001 mm  
 Output: Displayed on metre in mm  
 Sensor: Photo detector  
 Base: Cast Iron

**c) Circular hole slit**

Mount: Suitable to be fitted on Laser  
 Hole dia: 1 to 2 mm



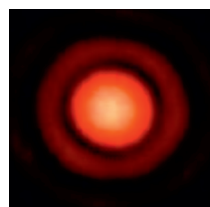
(a)



(b)



(c)



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