

Model: LDM-2003/018

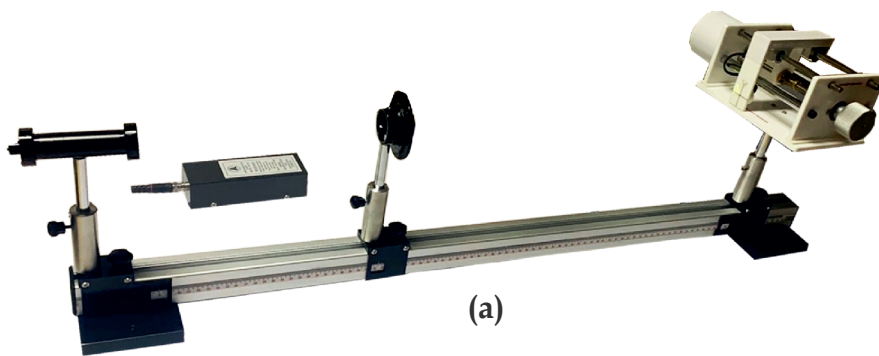
LASER BEAM CHARACTERISTICS

Experiment(s):

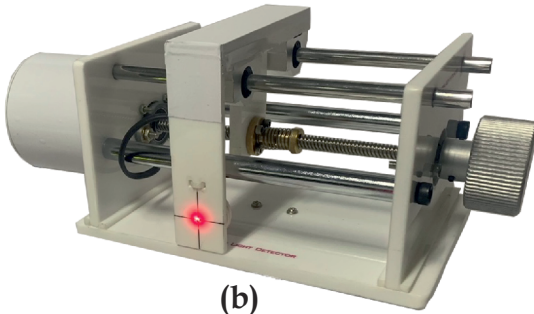
1. Study of Gaussian nature of Laser beam
2. Determination of spot width and divergence angle
3. Polarisation nature of Laser

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

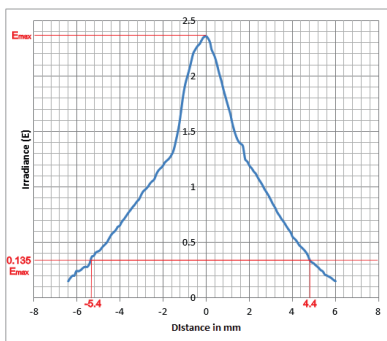
Reference : Lab Experiments Journal vol-5, No.2, Page-105



(a)



(b)



SCALE: 0.297 mm
REL. INT: 2.50 mW

Experiment setup consists:

- a) Optical bench & Laser
- b) Light detecting microscope

Specifications:

a) Optical bench & Laser

Length: 1 m

Fixture: Three (for Laser source, polarizer and light detector)

Material: Aluminium & cast iron

Laser

Type: Semiconductor diode Laser

Wavelength: 625 nm (Red)

Output power: 3 mW

Mount: Height adjustable

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

Intensity: up to 10 mW

Resolution: 0.01 mW

Sensor: Photo detector

Base: Acrylic

Rated Input: 220 V/50 Hz

or 110 V/60 Hz

Mains cord: 3 pin

Polariser

Graduation: 360° scale with

LC = 1° mountable on to

upright



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