Physics Lab Equipments



Physics Lab Equipments & Experimental Setups

ME 861 - To find wavelength and angular divergence of Diode laser.

Setup comprises of:

· Monochromatic Light Source : Diode Laser (Power 5mW)

: 1.5 Meter (Full Shaper) · Optical bench

· Diffraction grating :500lines/inch with grating holder

· White screen



ME 861B - To measure the peak power and beam divergence of a given laser beam

Setup Consist of:

- Monochromatic Light Source: He-Ne Laser (Power 2mW) or Diode Laser
- Optical bench : 1.5 Meter (Full Shaper)
- Laser Beam Analyzer with sensor (photovoltaic cell and digital DC micrometer (2000µA)
- Micrometer screw arrangement : Least count 0.01mm

ME 861C - To determine the particle size of micro particles (lycopodium powder) using laser.

Setup consist of:

- Monochromatic Light Source: Diode Laser: Power 5mW (He-Ne Laser)
- Optical bench : 1.5 Meter (Full Shaper)
- Fine micro particles having nearly same size as that of wavelength of laser source (say Lycopodium powder)
- Glass plate with holder
- White screen

ME 861D - To Study the Intensity Distribution Due to Diffraction from Single Slit and to determine the slit width (w).

Setup Consist of:

· Optical bench : 1.5 Meter (Full Shaper)

 Monochromatic Light Source: He-Ne Laser (Power 2mW) or Diode Laser

· Single slit with slit holder

· White screen





ME 861E - To Study the Intensity Distribution Due to Diffraction from Double Slit

Setup Consist of:

: 1.5 Meter (Full Shaper) Optical bench

· Monochromatic Light Source: He-Ne Laser (Power 2mW) or Diode Laser

· Double slit with slit holder

White screen

ME 861F - To Measurement Diameter of a Thin Wire using Laser

Setup Consist of:

: 1.5 Meter (Full Shaper) Optical bench

Monochromatic Light Source: He-Ne Laser (Power 2mW) or Diode Laser

· Slit contain thin wire in middle with slit holder

White screen

ME 861H - To find wavelength and angular divergence of He-Ne laser

Setup comprises of:

· Optical bench : 1.5 Meter (Full Shaper)

· Monochromatic Light Source: He-Ne Laser

(Power 2mW)

· Diffraction Grating : 500lines/inch with grating holder

White screen



