

IV-E594A To Determine The Wavelength Of He-Ne Laser Using Single Slit



- Wavelength of LASER Experiment is an Optical Setup to understand the working of Diffraction Grating and Single Slit. It determines the wavelength of LASER Light. Here the LASER is used as a Monochromatic light source and a Diffraction grating/Single Slit for getting a diffraction pattern.
- Interference and Diffraction are the two main phenomena which demonstrate the wave nature of light. Diffraction grating allows a beam of light to resolve into different colors. It usually consists of thousands of narrow, closely spaced parallel slits. With the help of this setup we can find the wavelength of any intense Monochromatic light.

Experiment:

- Determination of Wavelength of LASER using Diffraction Grating

Apparatus Supply:

- He-Ne Laser – Wavelength: 630nm, Output: 2mW
- Single Slit – Slit width: 0.05 mm, Dimensions (mm): 60 x 45
- Optical Bench Rail Type / Rod Type
- Optical White Screen