



Experiment Objective

To determine the wavelength of sodium light by analyzing the diffraction pattern produced by a diffraction grating and applying the grating equation.

Principle of Operation

When monochromatic sodium light passes through a diffraction grating, it is diffracted into several orders. The angular positions of the diffracted maxima are measured and the wavelength is calculated using the grating formula:

$$n\lambda = d\sin\theta$$

Apparatus Required

- Diffraction grating
- Spectrometer
- Sodium Vapour Lamp
- Telescope
- Spirit Level

Note: Laptop is not included

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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