



Experimental Objective

- To determine the resolving power of an astronomical telescope and verify the relationship between aperture size and angular resolution.

Principle of Operation

The resolving power of a telescope is defined as its ability to distinguish two closely spaced objects as separate images. The experiment is based on the diffraction of light at the telescope aperture and the application of Rayleigh's criterion for resolution.

The resolving power is expressed as:

$$\text{Resolving Power} = 1 / \theta$$

Where:

- θ = Minimum angular separation between two objects that can be distinctly resolved

The experiment demonstrates the dependence of resolving power on the aperture diameter and wavelength of light.

Apparatus Required

- Astronomical Telescope
- Optical Bench
- Measuring Scale

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



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