

IV-E664 Photo Conductivity Of Salenium Cell/Ldr Experiment Set

- In this experiment, Malus law of polarization is verified by showing that the intensity of light passed through two polarizers depend on the square of cosine value of the angle between the two polarizer axis. The transmitted light is measured by a photo detector and the Malus Law can be verified.

Scope of Learning:

EXPERIMENT: To study the Photoconductivity of CdS photo-resistor at constant irradiance and constant voltage

- To plot the current-voltage characteristics at constant irradiance.
- To measure photocurrent as a function of irradiance at constant voltage.

Apparatus Used:

- Optical Bench Rail Type/Rod Type 1Mtr. Length
- Polarizer With Mount
- Analyzer With Mount
- Photo Detector
- LDR With Mount
- Adjustable Slit With Mount
- Convex Lens With Mount

Salient Features:

- Instruction manual.
- Patch Cords 4mm.

Light Source:

- Diode Laser as Source or



Optional:

- DC Digital Regulated Power Supply 0-10V, 250mA (For Characteristics)