

MALU'S LAW OF POLARIZATION USING LASER

Model: ML-1908R/023A
ML-1908G/023B

Experiment(s):

1. Verification of Malu's law of polarization

(For more details, procedure & manual visit: www.kamaljeeth.net)

Reference : Lab Experiments Journal vol-15, No.3, Page-201

Experiment setup consists:

- a) Optical bench
- b) Light intensity meter

Specifications:

a) Optical bench: Aluminium alloy rail of length 1 m

Uprights: Free movement sliders on rail - 4 Nos

Laser: 625 nm Red (ML-1908R) or 540 nm Green (ML-1908G) 5 mW semiconductor diode laser

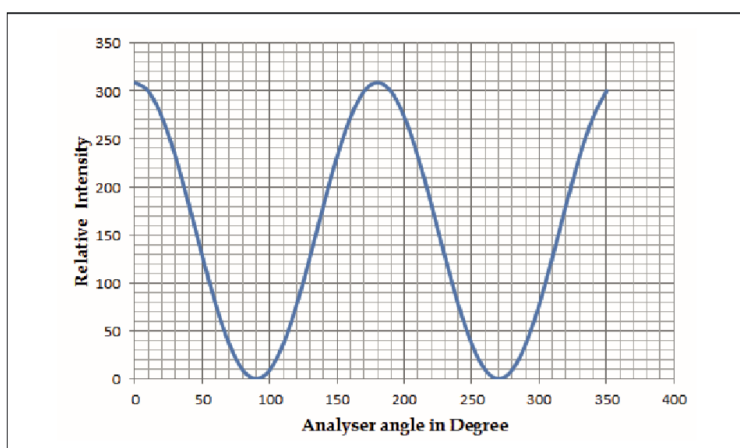
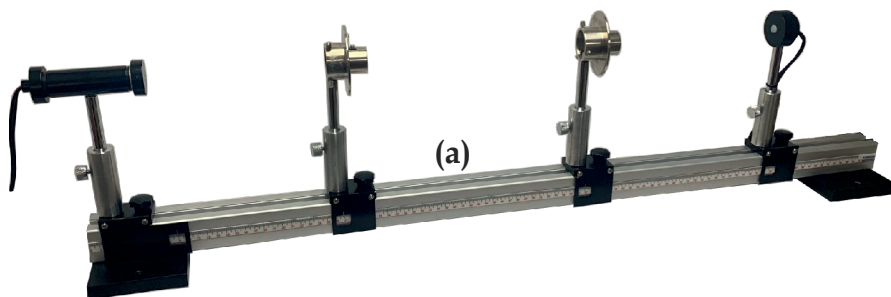
Power supply: Regulated output and output protection DC power supply, Rated Input: 220 V/50 Hz or 110 V/60 Hz

Polarizer: Graduated 360° scale with LC 1°, mountable on to upright

Analyzer: Graduated 360° scale with LC 1°, mountable on to upright

Optical detector: Relative intensity measurable for Lasers up to 10 mW.

b) Light intensity meter: Measures relative light intensity with range selection switch, Rated Input: 220 V/50 Hz or 110 V/60 Hz



For fixed position of polarizer, the graph shows variation of intensity with change in analyzer angle



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