Model: ML-2020R/024

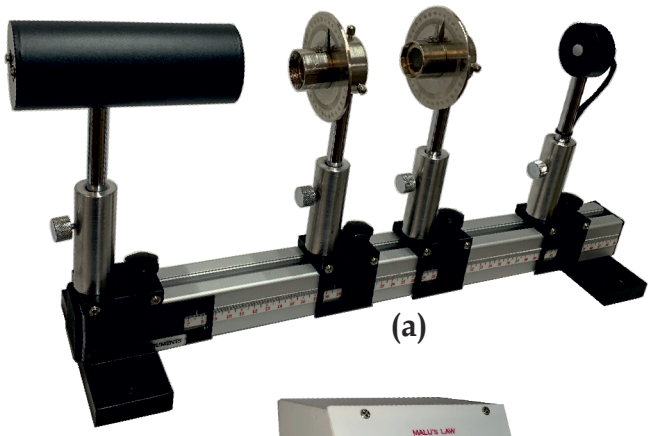
MALU's LAW OF POLARIZATION USING WHITE LIGHT SOURCE

Experiment(s):

1. Verification of Malu's law of polarization

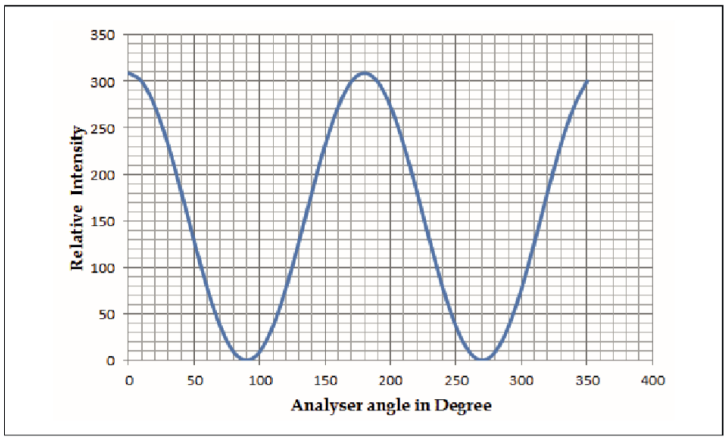
(For more details, procedure & manual visit: www.kamaljeeth.net)

Reference : Lab Experiments Journal vol-10, No.2, Page-125



(a)

(b)



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

Experiment setup consists:

a) Optical bench

b) Light intensity meter

Specifications:

a) Optical bench: Aluminium alloy rail of length 1/2 m

Uprights: Free movement sliders on rail - 4 Nos

Light Source: White light source with mount
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 measured using photo diode

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