

Experiment(s):

1. Determination of average wavelength of Sodium D₁ and D₂ Lines
2. Determination of D₁-D₂ Separation & thickness of Mica

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



Experiment Setup Consists:

- a) Interferometer
- b) Laser & Power supply
- c) Fringe Counter

Specifications:

a) Interferometer

Adjustable Beam splitter Twin parallel arrangement
Mirror: 2 Axis adjustment
LC: 0.001mm
Measurement: 3 scale method
Mirror coating: Silver finished

b) Laser & Power supply

Type: Semiconductor Diode
Laser with beam diffuser
Wavelength: 625nm (Red)
Output Power: 3mW
Mount: Cast Iron Base with levelling screw
Power Supply:
Output: Suitable for 3mW & 5mW
Semiconductor Lasers
Input: Mains operated 220V, 50Hz or 110V, 60Hz

c) Digital Fringe Counter

Calibration for dark and bright spots: Manual
Suitable for rings >10mm dia
Display: LCD readout
Input: Mains operated 220V, 50Hz or 110V, 60Hz

Reference : Lab Experiments Journal vol-4, No.3, Page-180



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