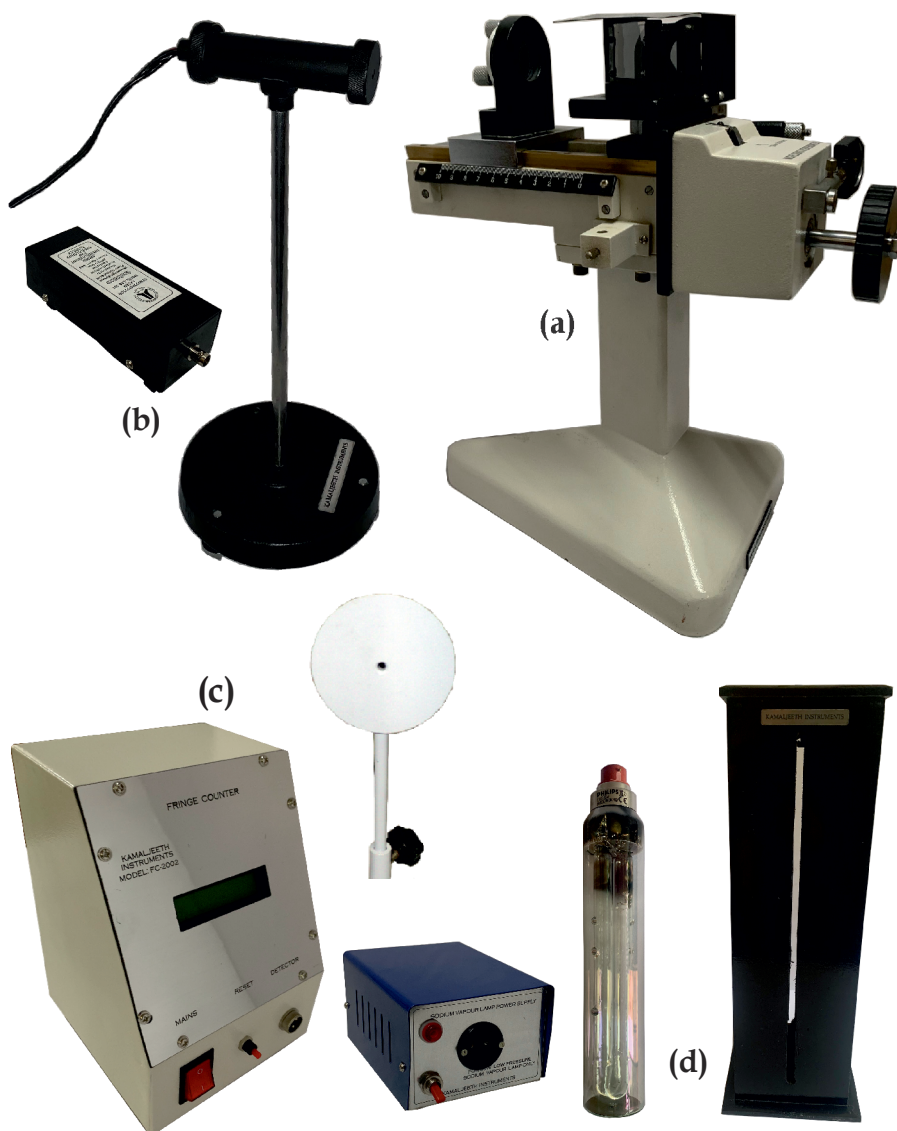


Experiment(s):

1. Determination of average wavelength of Sodium D₁ and D₂ lines
2. Determination of D₁-D₂ separation & thickness of Mica
3. Determination of average wavelength of semiconductor diode Laser

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

Reference : *Lab Experiments Journal vol-4, No.3, Page-180*
Lab Experiments Journal vol-12, No.4, Page-310



Specifications:

a) Interferometer

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

b) Laser & power supply

Type: Semiconductor diode Laser with beam diffuser
 Wavelength: 625 nm (Red)
 Output power: 3 mW
 Mount: Cast iron base with levelling screw
Power supply:
 Output: Suitable for 3 mW & 5 mW semiconductor Lasers
 Rated Input: 220 V/50 Hz
 or 110 V/60 Hz

c) Digital fringe counter

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

d) Sodium vapour lamp set (Optional)

Lamp: Philips / Thorne 35 W
 Lamp House: Single lamp type with fixed slit openings
 Transformer: 35 W, instant ON
 Rated Input: 220 V/50 Hz
 or 110 V/60 Hz



KAMALJEETH INSTRUMENTS

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Address: No. 610, 5th main, 8th cross Tatanagar, Bangalore - 560092, INDIA

Website: www.kamaljeeth.net, Email: labexperiments@kamaljeeth.net

3 years manufacturing warranty