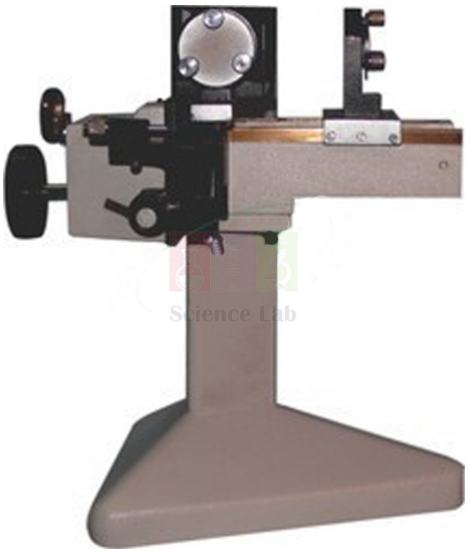
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Product Name :

Michelson Interferometer

Product Code :

SLE/M/38



Email : sales@scilabexport.com
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Description :

Michelson Interferometer (Product Code: SLE/M/38) is an optical instrument used to produce and measure interference fringes, for experiments such as finding the wavelength of monochromatic light in college physics laboratories. Its movable mirror is driven by a 1 mm pitch lead screw, with a slow-motion drum reading to 0.0001 mm. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India, for buyers of optics lab equipment in India and abroad.

Specifications

Parameter	Detail
Mirrors	Movable surface-coated mirror; fixed surface-coated mirror loaded with springs
Optics	Beam splitter and compensator
Mirror no. 1 drive	Main knob, least count 0.01 mm
Mirror no. 2 drive	Slow-motion drum, least count 0.0001 mm
Lead screw	Well-ground, pitch 1 mm, with spring knob for adjustment
Mirror alignment	3 knurled heads to set mirror no. 2 parallel to mirror no. 1
Pin-hole adjustment	Screws with nut and spring for horizontal and vertical adjustment of the pin-hole view
Viewing	Universal adjustable telescope with cross-line graticule; telescope holding clamp (universal type); adjustable eyepiece
Illumination optics	Diffused glass screen with pin-hole holder; pin-hole disc; adjustable condenser unit
Scale reading	Viewing window to read the main scale
Mounting	Base on stand for the interferometer
Product code	SLE/M/38
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Michelson Interferometer Used For?

The beam splitter divides light from the source into two paths, one to each mirror; when the beams recombine they form circular fringes seen through the telescope. Moving mirror no. 1 changes one path length, and every fringe that appears or vanishes at the centre corresponds to half a wavelength of travel. Counting fringes against the drum reading gives the wavelength of a monochromatic source, a standard experiment for B.Sc. and M.Sc. physics.

The same set-up is used to find the separation of the sodium D lines from the spacing of fringe visibi… one a… -hole imag… ng read…