Email : sales@scilabexport.com
Phone: +91-7082934803

Product Name :

Spectrometer

Product Code :

SLE/PHY/299



Email : sales@scilabexport.com
Phone: +91-7082934803

Description :

Spectrometer (Product Code: SLE/PHY/299) is an optical instrument used to measure angles of refraction, dispersion and diffraction for quantitative spectroscopy in college and senior school physics laboratories. Its cast collimator and telescope bodies turn over a 170 mm scale, and a spring-loaded vernier gives readings to 0.1°. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India, as core optics lab equipment for institutions.

Specifications

Parameter	Detail
Construction	Main structural parts, including collimator and telescope bodies, are castings; metal parts well coated with protective finishes
Scale	170 mm diameter, divided 0 to 360° x 1°; rotates independently, with locking screw
Vernier	Spring-loaded vernier on the telescope mount, reading to 0.1°
Telescope mounting	Movable pillar with locking-screw adjustment and axis adjustment
Telescope eyepiece	Ramsden eyepiece with cross wires and locking-ring focus adjustment
Telescope objective	170 mm focal length, 21 mm aperture, in a spiral focusing system
Collimator mounting	Fixed pillar with axis adjustment
Collimator objective	150 mm focal length, in a spiral focusing system
Slit	Unilaterally adjustable, 6 mm long
Prism table	Three levelling screws; lines marked to help place the prism
Standard accessories	1 prism clamp for prisms up to 40 mm high; 1 diffraction grating holder, aperture 25 x 25 mm; 1 small screwdriver; 1 tommy bar for axis adjustment; full instructions
Product code	SLE/PHY/299
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Spectrometer Used For?

As a prism spectrometer, it lets students find the angle of the prism and the angle of minimum deviation, and from these the refractive index and dispersive power of the glass. Fitted with a diffraction grating in the 25 x 25 mm holder, it becomes a grating spectrometer for measuring the wavelengths of spectral lines from a sodium or other spectral lamp. The 0.1° vernier reading supports genuinely quantitative results rather than simple demonstrations.

Good results start with adjustment. Focus the Ramsden eyepiece on the cross wires, set the teles with its th eep the in