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

**Product Name :**

Spectrometer

**Product Code :**

SLE/PHY/299



Science Lab
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

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