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Product Name :

Constant Deviation Spectrograph

Product Code :

SLE/M/39



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Description :

Constant Deviation Spectrograph (Product Code: SLE/M/39) is a prism spectroscopic instrument used to observe, measure and record spectral lines in advanced physics laboratories. Its Broca-type prism is turned by an external wavelength drum, so the collimator and telescope stay fixed while each wavelength is brought into view. It is built by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India, as part of its physics lab equipment in India.

Specifications

Parameter	Detail
Base	Heavy, stable base with pillar carrying a platform for the collimator, telescope and prism housing
Prism table	Broca-type prism, refractive index 1.65/1.74, housed under a coverand rotated by an outside wavelength drum
Telescope	Mounted on the platform, rack-and-pinion focusing, achromatic objective, eyepiece with scale (least count 0.01 cm)
Collimator	Achromatic objective, rack-and-pinion focusing, slit opening varied by micrometer screw
Prisms	Glass prism E.D.F.; glass prism D.E.D.F.
Extension mount	For L.G. plate, Edser-Butler plate or Fabry-Perot etalon
Telescope attachments (extra)	Monochromator conversion attachment; filar micrometer eyepiece reading 0.001 cm; camera with plate holder; plate holder for camera
General accessories	Standard accessory bar, nearly 3 feet long; Fabry-Perot etalon, 30 mm aperture, separation 3, 5 or 10 mm as desired; Edser-Butler plate for determining wavelength; L.G. plate with stand; condenser on stand
Product code	SLE/M/39
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Constant Deviation Spectrograph Used For?

In an ordinary spectrometer the telescope swings round to follow each colour. In a constant deviation instrument the collimator and telescope are fixed at one angle and the prism rotates instead; turning the wavelength drum brings successive lines onto the cross-wire so that wavelengths can be read directly. Physics departments looking for a prism spectrometer in India choose this design for M.Sc. work on line spectra of sodium, mercury and other discharge lamps.

The optional parts extend the experiments. A Fabry-Perot etalon or Lummer-Gehrcke (L.G.) plate on the extension mount reveals the fine structure of a line, the Edser-Butler plate measures wavelength from channelled spectra, the filar micrometer eyepiece measures small line separ
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