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Product Name :

Spectroscope (for high school)

Product Code :

SCL255/042



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Description :

Spectroscope (for high school) (Product Code: SCL255/042) is a prism spectroscope that splits light into its component colours so students can study continuous and line spectra. Light enters through a slit in the collimator tube, is dispersed by a three-edged prism on a table, and is viewed through a telescope with a moving eyepiece, while a micrometer screw allows fine adjustment. As a prism spectrometer for India's school and junior college optics labs, it is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala.

Specifications

Parameter	Detail
Type	Prism spectroscope
Dispersing element	Table with a three-edged prism
Collimator	Tube with a lens and a slit
Telescope	With a lens and a moving eyepiece
Adjustment	Micrometer screw
Mounting	Stand for installing the device on a support

Typical Use

Point the collimator at an ordinary filament lamp first: the class sees an unbroken band from red to violet, the continuous spectrum of a hot solid. Swap the lamp for a sodium lamp or a glowing gas discharge tube and the band is replaced by a few sharp bright lines, each one a fingerprint of the element. Comparing these patterns is how students meet the idea that atoms emit only particular wavelengths.

To set up, focus the telescope on a distant object, narrow the slit until lines look sharp, then turn the prism table until the spectrum appears and settle it at the position of least deviation. The micrometer screw helps line up the eyepiece on individual lines when recording their positions. Keep the prism faces free of fingerprints and cover the instrument when not in use; it is a lasting part of the optics lab equipment in any school.

Manufacturer

ScienceLab spectroscopes come from Jain Scientific Equipments Private Limited, a manufacturer of teaching apparatus in Ambala, Haryana, which manufactures optics instruments for schools and colleges in India and international markets. Our company profile gives further background.

Related Lab Equipment

Light sources and accessories used with this spectroscope:

- Spectral Tube Set with Voltage Source (for high school) — gas tubes whose line spectra are viewed through the spectroscope
-
- the slit.
-

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