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Product Name :

Laser (for high school)

Product Code :

SCL248/040



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Description :

Laser (for high school) (Product Code: SCL248/040) is a portable green laser that gives a narrow, bright beam for ray optics and wave optics lessons. Its listed wavelength is 550 nm with a power of 5 mW, and it runs either from a stationary supply or from a rechargeable battery, withthe charger included. Physics teachers use it to make reflection, refraction and diffraction visibleto a whole class. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**,Ambala, India, as part of its laser experiment range for schools.

Specifications

Parameter	Detail
Type	Portable laser
Colour and wavelength	Green, 550 nm
Power	5 mW
Power source	Stationary or rechargeable battery
Charger	Included

Typical Use

Aimed at a plane mirror, the beam shows the law of reflection with a precision that ray boxes cannot match; sent through a glass block or prism, it traces refraction and total internal reflection, and a little chalk dust or water mist makes the path visible in the air. Passing the beam through a narrow slit or a fine grating produces a diffraction pattern on a far wall, giving students a way to estimate spacing or wavelength from simple measurements.

Safe handling matters as much as the physics. Never look into the beam or point it at anyone, keep the beam below eye level, remove shiny objects from the bench, and let the teacher keep and switch the laser. Charge the battery fully before practical sessions so the output stays steady. Used this way, it becomes a core part of any optics experiment kit for school laboratories.

Manufacturer

This laser is manufactured by Jain Scientific Equipments Private Limited, the Ambala, Haryana business behind the ScienceLab name, which offers optical accessories so that the full ray optics practical can be ordered together. Read about the company on its profile page.

Related Lab Equipment

These products are used with the laser in optics practicals:

- Prism, Clear Glass — for refraction and total internal reflection with the beam.
- Mirror, Plane Glass — for measuring angles of incidence and reflection.
- Optical Bench Kit — keeps the source, lenses and screen aligned on one axis.
- Laser Pen, Red — a red source for comparing colours and diffraction patterns.

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