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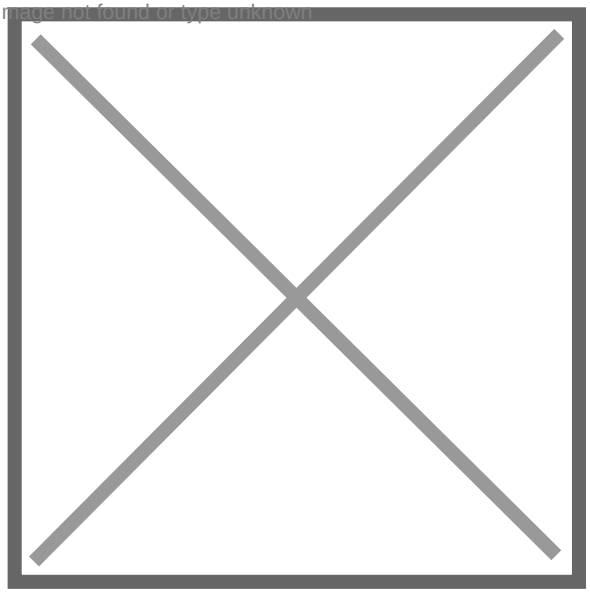
Product Name :

Optics Kit

Product Code :

SCL-341/033

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Description :

Optics Kit (Product Code: SCL-341/033) is a combined optics experiment kit used to teach reflection, refraction, lenses, colour and vision in school and college physics laboratories. Alongside lenses, mirrors, a glass prism and a 2 m wooden optical bench, it includes a light sensor reading 0–2 000 lux or 0–30 000 lux that connects to a smart board, plus an eye model showing sight defects and their correction. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Light sensor range	0–2 000 lux / 0–30 000 lux
Light sensor resolution	0.5 lux / 10 lux
Sampling frequency	Over 1000 measurements per second
Sensor connection	Connects to a smart board; controlled by touch screen
Power	Power source included
Lenses	Plano-concave lens and plano-convex lens
Prism and plate	Glass prism; glass plate with parallel faces, 50 x 20 mm
Mirrors	Flat mirror, curved “spoon” mirror and glass mirror, listed with f = 65 mm and diameter 100 mm
Optical bench	Wooden, 2 m
Colour disc	Rotating optical colour disc for white-light demonstrations
Eye model	Shows eye function, sight defects and their correction; wooden base 320 x 180 mm
Magnifying glass	Magnification not less than 4x
Documentation	Instruction manual
Product code	SCL-341/033
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Optics Kit Used For?

The kit covers a full optics unit on one 2 m bench: forming images with the plano-convex lens, showing how the plano-concave lens spreads light, comparing reflection from flat and curved mirrors, and bending a beam through the glass prism and the parallel-sided plate. The rotating colour disc shows that white light is a mixture of colours, and the eye model links lenses to vision, including how spectacles correct short and long sight.

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