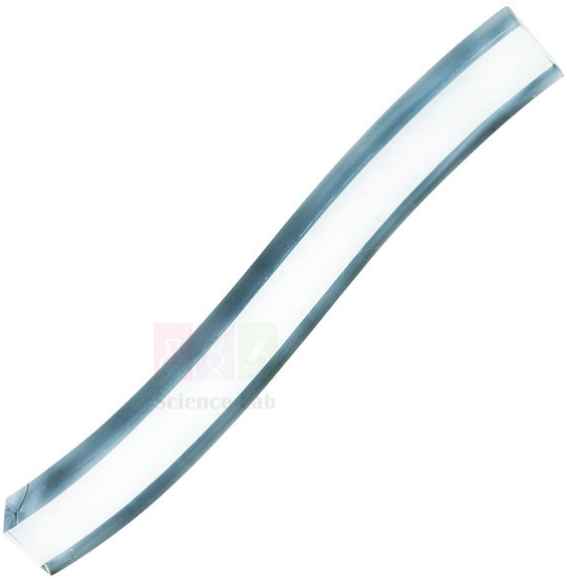
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Product Name :

Light Guide Demonstrator

Product Code :

SLE/PHY/231



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Description :

Light Guide Demonstrator (Product Code: SLE/PHY/231) is an S-shaped acrylic bar used to demonstrate total internal reflection and the principle behind optical fibres in school physics optics lessons. Measuring 220 x 20 x 20 mm, it is used with a raybox, and the bottom of the bar is painted white to aid visibility of the light path. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Shape	'S' shaped bar
Material	Acrylic
Dimensions	220 x 20 x 20 mm
Finish	Bottom of the bar painted white to aid visibility
Light source	Used with a raybox (listed separately)
Demonstrates	Total internal reflection; principles of optical communications
Product code	SLE/PHY/231
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Light Guide Demonstrator Used For?

When a raybox beam is directed into one end of the bar, the light does not leak out at the bends. Each time it meets the acrylic surface at a large enough angle it is totally internally reflected, so it zig-zags along the S-shape and emerges from the far end. Students can see that light can be guided around corners, which is exactly how optical fibres carry telephone and internet signals.

For the clearest view, dim the room lights and align the beam squarely with the end face; the white-painted base helps the reflected path stand out. Wipe the acrylic with a soft, clean cloth and store it where it will not be scratched, because surface marks let light escape. It is a simple, durable piece of optics lab equipment for school and college physics departments across India.

OEM Manufacturer

Jain Scientific Equipments Private Limited trades as ScienceLab and is the OEM (original equipment manufacturer) of the Light Guide Demonstrator. The company is incorporated under CIN U29309HR2020PTC087597, and production takes place at the company's licensed factory at 449, HSIIDC Industrial Area, Saha, Ambala (Factory Licence AMB-ONLINE-CHD-J-414). Because the demonstrator is made by the manufacturer itself rather than bought from a trader, schools, colleges, dealers and importers receive it factory-direct, and replacement bars or repeat orders can be discussed with us directly. Read more on the ScienceLab company profile.

Rela

Items

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