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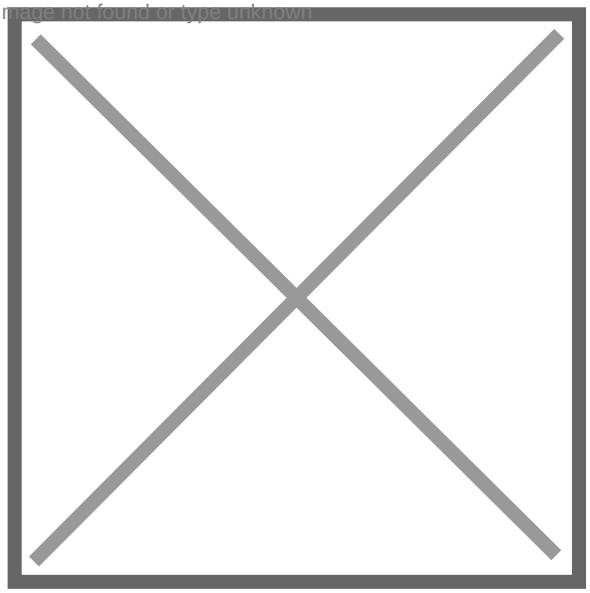
Product Name :

Light Box and Optical Set

Product Code :

SCI-1489/028

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Description :

Light Box and Optical Set (Product Code: SCI-1489/028) is a ray-box optics kit used to carryout reflection, refraction and colour-mixing experiments in school and college physicslaboratories. A matt black light box with a 20 W halogen lamp produces parallel, convergent ordivergent beams, and the set adds Perspex prisms and lenses, curved and plane mirrors, slitplates, eight colour filters and eight coloured cards. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)** , an OEM manufacturer and laboratory equipment supplier in India, at itsown factory in Ambala.

Specifications

Parameter	Detail
Light box	Robust box finished in matt black
Lamp	20 W halogen lamp with 0.75 m of twin flex
Beam control	Cylindrical convex lens in an adjustable sliding mount at one end, giving a parallel, convergent or divergent beam
Colour-mixing end	Triple aperture system; lateral apertures have adjustable hinged mirrors
Apertures	All apertures have vertical channels to hold slit plates and/or colour filters
Experiments covered	Reflection, refraction and colour mixing
Product code	SCI-1489/028
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

Optical accessories included:

- Perspex blocks (prisms): one rectangular, one semi-circular, one triangular prism 60° x 60° x 60°, one triangular prism 90° x 60° x 30°, one triangular prism 90° x 45° x 45°
- Cylindrical Perspex lenses: one double concave and one double convex (both with the same radius of curvature), plus one thick double convex
- Mirrors: one curved metallised plastic (parabolic), one curved metallised plastic (semi-circular), one plane glass mirror mounted on a stand
- Black plastic slit plates: one with three narrow slits and one narrow slit; one with four narrow slits and one wide slit
- Set of eight colour filters: primary red, primary green, primary blue, cyan, violet, yellow, orange and magenta
- Set of eight coloured cards: red, green, blue, violet, orange, cyan, yellow and pink

What Is a Light Box and Optical Set Used For?

With one light box and this accessory set, a class can work through much of a ray optics course at the bench. Narrow rays from the slit plates show the laws of reflection on the plane and curved mirrors, refraction and total internal reflection in the semi-circular and triangular blocks, and dispe ure make

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