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Ray Box with Optical Kit

Product Image



Description

Complete with all accessories & Manual. It consists of:

Specially designed Light Box, black. Top and bottom capable of withstanding heat of the bulb. A 12V 24W, bulb has a special filament and is fitted in a holder through the top. A cylindrical, concave lens, which can create divergent, convergent, or parallel rays, as required, is mounted in front of the bulb and can be moved to-and-fro for focus. Other end of box has triple aperture system. Hinged windows along the sides of the box have mirror surface on their insides, useful for color-mixing experiments. All windows in the box have channels inside and outside to hold slit plates and color filters. A 1.5m electric cord, ending in one each red and black banana plugs, is included.

Five perspex blocks, free of optical imperfections and sharp edges: 1 rectangle, 1 triangle 60°-60°-60°, 1 triangle 90°-60°-30°, 1 triangle 90°-45°-45°, and 1 semi circle.

Three Perspex, cylindrical lenses: 1 double-convex, and 1 double-concave, both with the same radius of curvature; and 1 thick double convex.

Three mirrors, free-standing, highly-polished: 1 plane mounted, 1 semi-circular metallic, and 1 parabolic.

Two slit plates, metal, matte-black: one with three narrow slits at one end, and one narrow slit at the other; the other with four narrow slits at one end, and one wider slit at the other.

Nine color filters, mounted: 3 primary and 5 secondary colors, 1 showing effects of color mixing.

Eight color cards. Spare bulb.

The Ray Optics Kit is a basic set of optic components for ray and color experiments. To study law of reflection.

To study reflection by spherical mirrors.

To study refraction.

Total internal reflection.

Refraction through lens.

Refraction through prism.

Colour mixing of different colours.

Catoluge No

Particulars

JZ02670

Ray Box with Optical Kit

A quality product from JAPSON ideal for use in School Laboratories in developing countries of Asia, Africa and South America.

Standard specifications for school laboratory use. Ideal mix of Quality and Economy.

Other configurations and superior quality available for specific use or for developed

countries.

Disclaimer

The Products details given on this page are indicative in nature and JAPSON reserves the right to change them without prior notice. Buyer is also requested to re-check the specifications and other features of product at the time of order as product development is a continuous process and minor modifications may be made to design based on latest availability, process and design.