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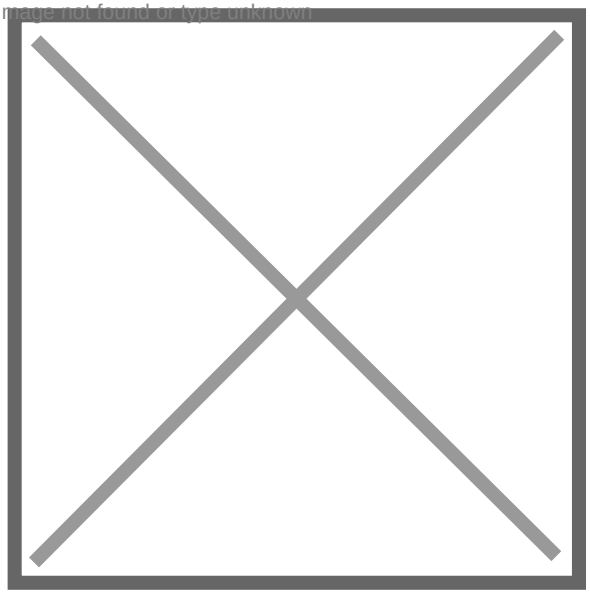
Product Name :

Apparatus for studying the reflection of light according to different types of surfaces and the refraction of light from different environments

Product Code :

SCL-522/044

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Description :

Apparatus for studying the reflection of light according to different types of surfaces and the refraction of light from different environments (Product Code: SCL-522/044) is a multi-part optics demonstration set used to teach reflection, refraction, lenses, vision and wave opticsin school and college physics labs. It combines lenses, mirrors, a glass prism and fibre optics witha red laser diode of about 633 nm and a human-eye model showing vision defects and their correction. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Laser	Laser diode for diffraction and interference experiments; coherent red light, wavelength about 633 nm
Laser unit sizeand weight	35 x 10 x 14 cm; 1.5 kg
Power	Electric current source
Eye model	Human eye model presenting eye function, including vision defects and their correction; mounted on a wooden or plastic base not smaller than (320 x 180) mm. A second human eye model is also listed.
Camera model	Model of a digital camera (listed as “cyber shot”, over 10 megapixels)
Telescope model	Galilean telescope model
Lenses	Bi-convex lens; bi-concave lens; plano-convex lens r = 45 mm; plano-convex lens r = 75 mm; spherical plane lens
Curved mirrors	Spoon mirror and mussel mirror (names as listed), glass, F = 65 mm, diameter 100 mm
Other optics	Flat mirror; glass prism (prism dimensions in the listing are unclear — confirm with us); fibre optics
Mounting	Magnetic board
Product code	SCL-522/044
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Optics Demonstration Set Used For?

The set brings many school optics topics together in one kit. Teachers can arrange mirrors, lenses and the prism on the magnetic board and trace rays to show the law of reflection, image formation by curved mirrors with a 65 mm focal length, refraction and dispersion in the prism, and how converging and diverging lenses bend light. The fibre optics show total internal reflection, the principle behind light guides.

The eye model links this optics lab equipment to biology: it presents how the eye forms images and h nera mode ser diode ne, and a