

U30095 - Light Box P
Order code: **5401.1018471**



Cena bez DPH

247,00 Eur

Price with VAT

298,87 Eur

Parameters

Quantitative unit

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Colours:

- Coloured light and coloured objects
- Mixture of colours

Shadows:

- Casting shadows
- Coloured shadows

Reflection:

- Reflection from a plane mirror
- Reflected images, image reversal
- Multiple reflections from a mirror
- Reflection from a concave mirror (focal point and spherical aberration)
- Reflection from a parabolic mirror
- Reflection from a convex mirror

Refraction:

- Determining refractive index with a semi-circular object
- Determining refractive index with a parallel block
- Angle of minimum deflection for a prism
- Total internal reflection in a semi-circular object
- Total internal reflection in a prism
- Focal point of a converging lens
- Focal point of a diverging lens
- Spherical aberration

Equipment set for the execution of bench-based optical experiments, consisting of a light box in a sturdy plastic housing and numerous optical components. The complete set is housed in sturdy styrofoam storage case. The light box has four light outlets: front, back, and two side outlets with hinged mirrors for experiments on color mixing and shadows. All openings are equipped with mounts for optical components in 50 x 50 mm slide frames. Parallel, convergent, and divergent light can be generated by adjusting a mixer lens at the front of the lamp. There are two double-sided slit diaphragms available so that four different beam configurations can be created.

! Note: Power supply not included

Contents:

- 1 Light box
- 1 Plane mirror (glass)
- 1 Concave mirror (metal)
- 1 Convex mirror (metal)
- 1 Bi-convex lens, large (transparent acrylic)
- 1 Bi-convex lens, small (transparent acrylic)
- 1 Bi-concave lens (transparent acrylic)
- 1 Parallel plate (transparent acrylic)
- 1 Semi-circular object (transparent acrylic)
- 1 60° prism (transparent acrylic)
- 1 Asymmetrical 90° prism (transparent acrylic)
- 1 Symmetrical 90° prism (transparent acrylic)
- 2 Slit diaphragms
- 8 Color filters (in slide frame)
- 8 Color charts
- 1 Pair of connector leads with 4-mm plugs
- Specifications:
- Lamp: 12 V, 36 W
- Connections: 4-mm socket
- Light box: 17.5 x 10.0 x 6.5 cm approx.
- Storage case: 25 x 24 x 10 cm approx.