

1000604 Optics Kit for Whiteboard

Instruction sheet

11/15 Hh



1. Safety instructions

- Beware. Lights become hot when left on for a long period.
- Do not clean optical elements with highly active fluids or solvents. This may result in damage.

2. Description

The demonstration equipment set (basic set) is for the conducting of numerous demonstration experiments in geometric optics, e.g. casting of shadows, laws of reflection, laws of refraction, total reflection, angle of least deflection in prisms, focal lengths of mirrors and lenses, laws of lenses and imaging errors.

All optical elements in the basic set are coated with magnetic foil and are available separately.

3. Scope of delivery

Mirrors:

Art. No.	Designation	Dimensions	Material
1002984	Plane mirror	200x35x35 mm ³	Plastic
1002985	Convex – concave mirror, $f = \pm 100$ mm	200x35x35 mm ³	Plastic

Transparent objects:

1002986	Plano-concave lens, $f = -400$ mm	200x40x35 mm ³	Acrylic glass
1002987	Plano-convex lens, $f = +400$ mm	200x40x35 mm ³	Acrylic glass
1002988	Plane-parallel plate	200x100x35 mm ³	Acrylic glass
1002989	Semi-circular body, $f = +200$ mm	diam. 200x35 mm ²	Acrylic glass
1002990	Right-angled prism	200x200x35 mm ³	Acrylic glass

Shadow-casting bodies:

1002992	Cuboid	100x20x35 mm ³	Plastic
	Cylinder	diam. 5x35 mm ²	Plastic
	Cylinder	diam. 60x35 mm ²	Plastic

4. Accessories

- 1002591 Whiteboard 600 x 900 mm²
or
1002592 Whiteboard 900 x 1200 mm²
- 1000682 Single-Ray Projector
1003323 Magnetic Holder for Single-Ray Projector
or
1003321 Multiple-Ray Projector
1000593 Transformer 12 V, 60 VA
@ 230 V
or
1006780 Transformer 12 V, 60 VA
@ 115 V

5. Cleaning

Clean optical elements using a damp cloth with washing-up liquid or plexiglass cleaner.