

Optics Kit 103

ESP60393

Junior
High
School

- + The guide book consists of 21 experiments.
- + The experiments are related to the principle of propagation, reflection, refraction, object image, microscope, and other optic experiment.



Component List

Consists of 26 components, packed in a plastic injection moulding box.
Dimensions: 61 × 26 × 17 cm. Weight: 3.2 kg.

Cat. code	Component	Qty	Cat. code	Component	Qty
FPT 16.01/65	Optical Table	1 pc	ESP 16.15/85	Convex Lens with Holder, $f = +200$ mm	1 pc
ESP 16.02/66	Precision Rail, 50 cm	3 pcs	ESP 16.16/86	Concave Lens with Holder, $f = -100$ mm	1 pc
ESP 16.03/67	Rail Connector	2 pcs	FPT 16.17/87	Clamp Rider	4 pcs
ESP 16.04/68	Foot For Rail	2 pcs	ESP 16.18/88	Semi Circular Lens, \varnothing 60 mm	1 pc
ESP 16.06/76	Lamp Housing with Festoon Bulb	1 pc	ESP 16.19/89	Prism, Right Angle, 30 × 30 mm	1 pc
ESP 16.06/76-272	12 V, 18 W Festoon Bulb	2 pcs	ESP 16.22/92	Biconvex Lens, Glass	1 pc
ESP 16.07/77	Diaphragm Slide Holder	1 pc	ESP 16.23/93	Combined Mirror	1 pc
ESP 16.08/78	Diaphragm 5 Slit	1 pc	ESP 16.24/94	Biconcave Lens, Glass	1 pc
ESP 16.09/79	Diaphragm 1 Slit	1 pc	ESP 16.26/98	Glass Block, 60 × 40 × 20 mm	1 pc
ESP 16.25/95	Diaphragm Arrow	1 pc	ESP 16.11/81	Candle Holder	1 pc
ESP 16.12/82	Translucent Screen with Rod	1 pc	ESP 350 01	Rectangel Plastic Tank	1 pc
ESP 16.13/83	Convex Lens with Holder, $f = +50$ mm	1 pc	ESP 350 02	Square Plastic Tank	1 pc
ESP 16.14/84	Convex Lens with Holder, $f = +100$ mm	1 pc	ESP 16.07	Cover Slide	1 pc



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Supporting Tools

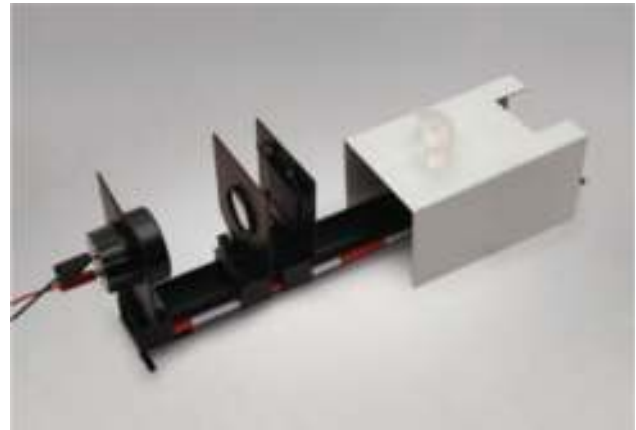
→ For detailed information, please refer to the last pages..

Cat. code	Tool	Qty
ESP-P-5001413	Power Supply AC/DC, 50 Hz	1 pc
ESP 203 03	Folding Flat Mirror	1 pc

Experiment Topics

- O1 Propagation of Light
- O2 Reflection of Light on a Plain Mirror
- O3 Reflection of Light on a Folding Plain Mirror
- O4 Reflection of Light on a Concave Mirror
- O5 Reflection of Light on a Convex Mirror
- O6 Refraction of Light on a Semicircular Glass
- O7 Total Reflection
- O8 Refraction of Light on a Plan-Parallel Glass
- O9 Refraction of Light on a Convex Lens
- O10 Refraction of Light on a Liquid
- O11 Refraction of Light on a Concave Lens
- O12 Refraction of Light on a Combination Lens
- O13 Image by Convex Lens
- O14 Object Distance, Image Distance and Focal Length
- O15 Dispersion of Light
- O16 The Eye
- O17 Eye Defects
- O18 Magnifying Glass
- O19 Astronomical Telescope
- O20 Microscope
- O21 Optical Illusions

 Optics experiment guide in English



O6 The Light Refraction on Half Circle Glass



O10 Refraction on Liquid Substances



O11 Refraction on Concave Lens



O11 Refraction of Light on a Convex Lens

