

D20-1627-W0

Instant Observation Light Path Set



[Product Description]

Set for students' optical experiments including lenses, a mirror, and a portable LED ray box to be fitted with a compact light path tracing plate and a circle protractor.

[Overall Advantages to Users]

- ✓ The protractor on the light path projection plate enables users to measure the angle at which rays reflect or refract.
- ✓ Suitable for students' experiments.

[Benefit to All Users]

- ✓ Set for easy setup that comes with four lenses of different shapes, convex/concave mirror (one of each), and a semi-circular open tank. Sufficient for students experiments to observe light reflection and refraction.
- ✓ Placing a single slit plate in front of the ray box allows the number of rays to be changed from three to one.

[Precautions]

- Do not clean the lenses using alcohol or organic solution. Otherwise, they can be deteriorated and/or damaged.
- Remove the batteries from the battery box before long-term storage because electrolyte leaking from the batteries may damage the ray box.
- Use two size AA or rechargeable batteries.

[Components & Specifications]

[Contents]

- Portable ray box (emitting red color LED rays from built-in three slits)
- Compact light path tracing plate with a circle protractor
- Triangular Prism x 1 pc
- Convex lens x 1 pc
- Concave lens x 1 pc
- Trapezoid lens x 1 pc
- Convex mirror x 1 pc
- Concave mirror x 1 pc
- Semi-circular open tank x 1 pc
- Single slit plate x 1 pc

[Specifications]

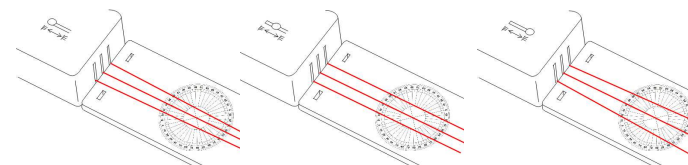
- Material: Plastics
- Size: 130 x 70 x 40mm (portable ray box), 175 x 70 x 7mm (compact light path tracing plate)
- Power supply: Two dry cells (AA type) (not included)

[Keywords]

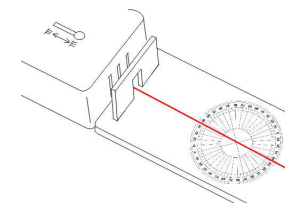
Optical experiments
Light reflection and refraction
LED light source

[How to use]

1. Remove the battery cover on the rear surface side of the ray box, insert two size AA or rechargeable batteries in the battery box, and close the cover.
2. Set up the compact light path tracing plate in front of the three slits of the ray box.
3. Use the on/off red rocker switch on the ray box to turn it on or off.
4. Adjust parallelism of the rays by using the small knob on the top of the ray box.



5. When you want to emit a single ray only, attach the single slit plate in front of the ray body to block the other two rays.



6. Place an accessory such as lens on the circle protractor and observe reflection and/or refraction of ray(s).
7. Remove the batteries from the battery box before long-term storage.