

RIPPLE TANK

3032

Ripple tank

OPTIKA Ripple Tank has the following advantages:

- Simple to assemble
- Easy of carry out the experiments
- Reliable and repeatable results
- Excellent visual resolution of the wave front

The stroboscopic lamp is fitted with an extra-bright 3 W LED, which is synchronised with the surface-wave generator.

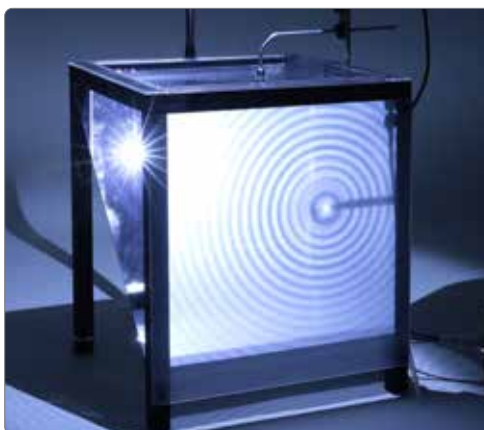
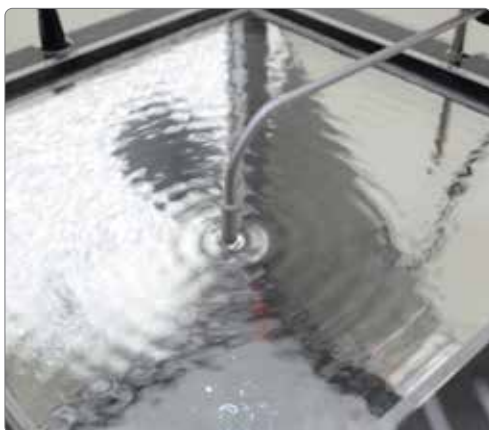
The control unit is equipped with a digital display and allows to set or to stop the synchronism of the vibrator with the lamp, the modulation of wave amplitude and its frequency. The vibrator is electro-dynamic type.

The tank is provided with two adjustable feet and with an easy-to-use drain pipe ending with a tap.

Dimensions:

Tank (overall): 30x30 cm

Projection Screen (overall): 30x30 cm



Ripple Generator

Ripple generator with power adapter.
Frequency: 0-50 Hz.
Switch on/off synchro LED.
Digital display.



Vibrator

The vibrator is electro-dynamic type.



White LED

3 W, white LED light source with both strobe and steady modes.



Acrylic Lens

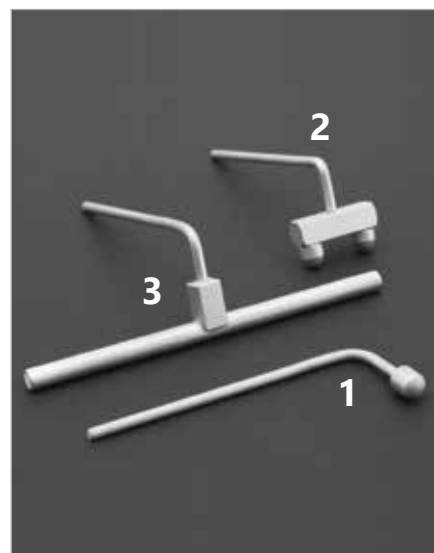
Acrylic lens, convex
Acrylic lens, concave
Acrylic trapezium

For experiments on refraction.



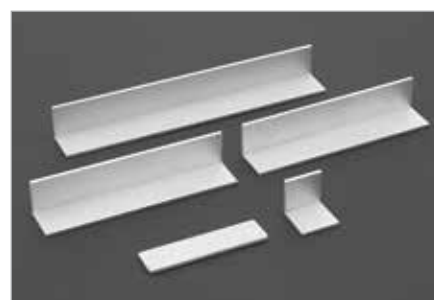
Dippers

1. Single Dipper
2. Double Dipper
3. Dipper for parallel waves



Barriers

For experiments on diffraction, reflection and for measuring wavelength.



Convex Reflector

For extra experiments on reflection.



PRACTICABLE EXPERIMENTS

Some experiments that can be carried out:

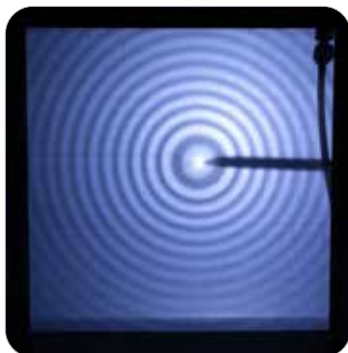
- Superficial waves on water
- Wavefront
- Wavelength
- Propagation speed
- Reflection

- Refraction
- Interference
- Stationary waves
- Diffraction
- Huygens principle

Plane waves



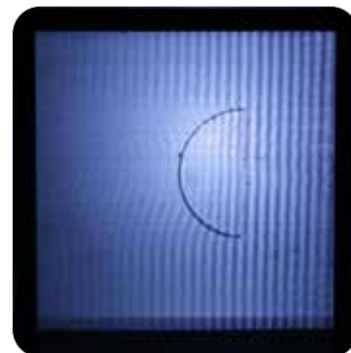
One point source dipper



Two points source dipper



Refraction using acrylic lens, convex





Packaging

OPTIKA Ripple tank is delivered in a polystyrene preformed packaging.



Trolley for Ripple Tank

Thanks to this trolley, you can easily move the equipment of the Ripple Tank from a classroom to another.

It is very simple to assemble and it is supplied with three drawers - 22x43x10 cm - to put all the items you need to perform the experiments.

3037 Trolley for ripple tank

Packaging:

1 box: 10x40x20 cm, 10 kg

1 box: 46x30x38 cm, 4,30 kg