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Operating instructions

Fig. 1: Demo mirror with transparent foil, 11260-30

TABLE OF CONTENTS

1 SAFETY PRECAUTIONS

Attention!

- Carefully read these operating instructions completely before operating this instrument. This is necessary to avoid damage to it, as well as for user-safety.
- Only use the instrument for the purpose for which it was designed.
- Longer observation of the wave image under stroboscopic illumination can trigger epileptic seizures in endangered people.
- Do not stare directly into the glowing LED on purpose.

2 PURPOSE AND DESCRIPTION

The mirror for Ripple Tank is used to project the wave pattern into a vertical plane. This way it is possible to present it to a larger group.

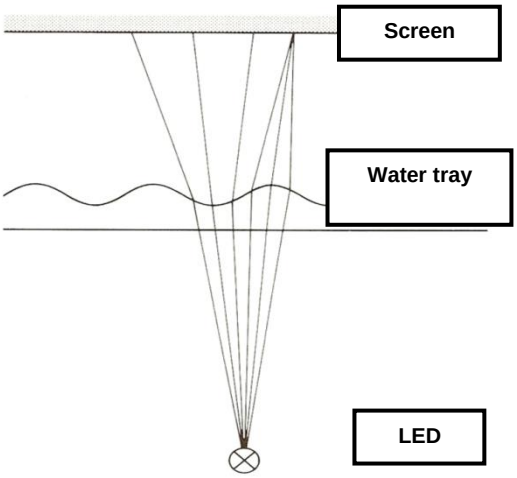

Fig. 2: The shadow projection principle – Light from a point light source passes through the wave tray and is partially subject to deflection according to the structure of the surface waves. This deflection generates a bright-dark pattern on a screen.

3 HANDLING

- The drawing table is positioned tilted upright as shown in figure 2.
- The mirror is hooked with its brackets to the edge of the drawing table. The other end of the mirror rests on top of the wave tray.
- Now a sheet of the matt paper can be clamped in between the brackets and the drawing table. Onto this paper the wave pattern is projected.

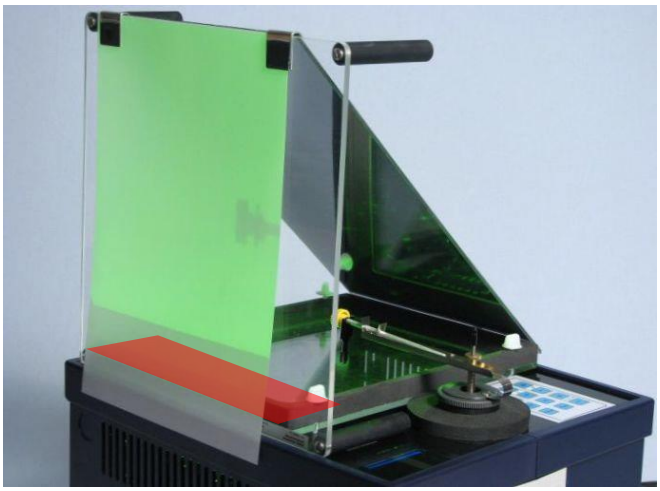

Fig. 2: Ripple tank with drawing table and mirror
in red: paper below the wave tray

Note
The ripple tank is equipped with an LED that has a large angle of radiation to illuminate the entire drawing table when in horizontal position.
When using the drawing table in vertical position to attach the mirror, light from the LED reaches the drawing table directly without passing the mirror. This leads to interferences with the desired wave pattern. If this seems disturbing, we recommend interrupting the direct optical path between LED and drawing table.
To do so, please place a piece of paper or cardboard (dimensions approx. 22 cm x 9.5 cm) right below the wave tray as shown in Fig. 2, red area.

Assembly video:
YouTube: https://youtu.be/5wLj_mtr03s?t=1m35s

4 SCOPE OF DELIVERY

The scope of delivery consists of:

- 1 mirror
- 10 paper, matt

5 WASTE DISPOSAL

The packaging consists predominately of environmentally compatible materials that can be passed on for disposal by the local recycling service.

Should you no longer require this product, do not dispose of it with the household refuse.
Please return it to the address below for proper waste disposal.

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