Water Wave Channel

Product Information

Weight	27.25 lb
Dimensions	60.0 x 15.0 x 10.0 in
Brand	3B Scientific
Item No.	U8431411 [1000807]

Description

Wave trough for demonstrating or investigating the basic properties of waves using waves in water. A plexiglas duct is filled with water and a sinusoidal wave is generated that propagates with no reflection at the end thanks to an absorber mechanism. The frequency and thus the wavelength of the resulting movement can be varied continuously. In order to investigate reflection, the absorber at the end can be removed. Two exciting mechanisms are supplied that can be operated in or out of phase and the waves they generate can be viewed separately or superimposed. By applying a pulsed input to the exciters, non-periodic waves can be generated.

Experimental Topics:

- Excitement of periodic and non-periodic waveforms
- Deflection, phase and amplitude
- Frequency and wavelength
- Phase and group velocities
- In-phase and out-of phase superimposition of waves
- Reflection of a wave
- Standing waves

Specifications:

- Supply voltage: 9 – 12 V DC
- Power consumption: 40 W max.
- Connectors: 4-mm safety sockets
- Frequency range: Continuously adjustable
- Dimensions: approx. 1500x150x290 mm³
- Weight: approx. 12.6 kg

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