Ripple Tank placed on a Vue-Graph

Block of wood

Plastic Rule

\( \frac{1}{2} \) Single Slit

Barrier to create standing waves

Strobe is used to measure motor speed

\( \sim 1600 \text{ RPM} \)

Vernier calipers used to measure separation between maxima
The ripple tank is placed on a vacuum glass. A stroboscope is used to measure the speed of motor speed = 1600 RPM or ripple. Vernier calipers are used to measure separation between maxima or minima in 1 cm.
Single-Slit Diffraction with a Ripple Tank.

**Equipment:**
- Ripple tank
- Ripple tank motor carrier
- Ripple tank barrier
- Ripple tank float
- Overhead projector
- HP 6284 DC Power Supply

**Procedure:**
Mount float containing motor to upright rod on ripple tank. (Suspend by elastic bands) Connect motor wires to power supply. Adjust the height of the metal pistons so they just break surface of water. One will have to play with adjustment for optimum wave front.
Ripple Tank

A small ripple tank displays all types of wave phenomena. The waves can be projected by sandwiching the tank into an overhead projector.