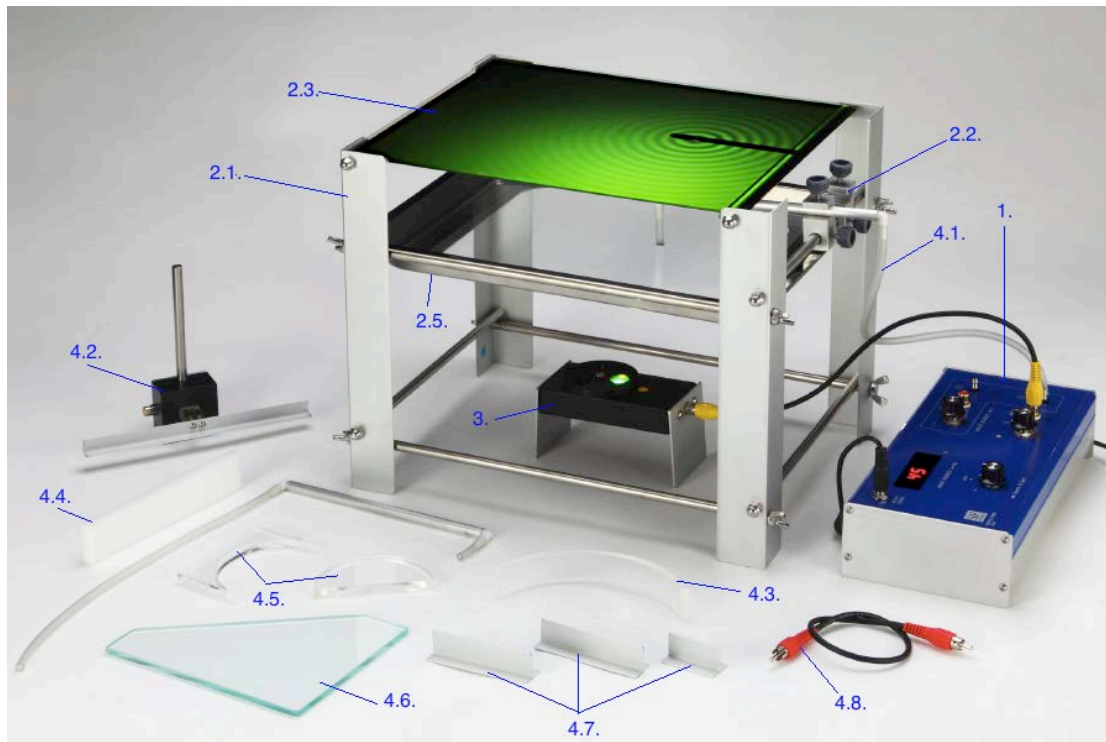


F05 Ripple Tank Experiment



F05 Ripple Tank Experiment

Experiments:

1. point wave
2. straight wave
3. wave's reflection
4. wave's refraction
5. wave's diffraction
6. wave's interference
7. reflection mirrors
8. refractive lens
9. Doppler effect

Specifications:

1. Digital Electronic strobe/ripple generator x1
 - 1-1. White LED strobe frequency 0~99Hz by sinusoidal wave, preset frequency 45Hz to freeze the wave pattern in synchronism with the ripple.

- 1-2. Precise adjustable strobe frequency to make wave movement.
- 1-3. Demonstration of wave movement preset 10secs.
- 1-4. Point source preset 45Hz, include two drivers with air outlet to produce pure air-pressure wave
- 1-5. A plane wave exciter preset 45Hz with RAC jack. It could be drive combine with two point source at the same time.
- 1-6. LED brightness adjustable.
- 1-7. Power supply input 110~240ACV, output DC19V
- 1-8. Aluminum case with cooling fan, size 25x12x6cm
2. Ripple tank and viewing screen x1
 - 2-1. Tank can be quickly assemble by four aluminum legs, eight stainless rods and eight hand nuts.
 - 2-2. Two right angle clamps for fix vibration source.
 - 2-3. Black AGAMA plastic plate put on the top of tank to view the color wave and sketch it's propagation direction.
 - 2-4. Complete size 33x25x28cm, effective project area 29x25cm
 - 2-5. Stainless basin with big clear glass plate
3. LED color light projector x1
2W power white LED with blue green and transparent filer to make three color wave projection
4. Accessories.
 - 4-1. plastic tube for point source x2
 - 4-2. plane wave exciter 18cm length x1
 - 4-3. plastic convex concave mirror x1
 - 4-4. plastic reflect plate x1
 - 4-5. plastic convex concave lens set x1
 - 4-6. Trapzoid glass plate for water depth propagation velocity.
 - 4-7. Obstacle sets for diffraction and interference.
 - 4-8. RCA signal connector x1