



**Whirling table** (ELP.107.130)

Stand overall height 43 cm. for use in vertical or horizontal position, fitted with hand wheel and wire helix belt drive to pulley. Suitable for use with Savart wheel and disc and adopter to accommodate colour discs.



**Stethoscope** (ELP.107.126)

Best quality, with rubber tubing. Highly sensitive.



**Stroboscope** (ELP.107.125)

Simple model, hand driven to show the student stroboscopic effects.

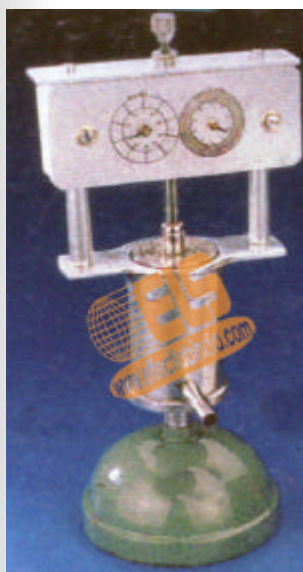
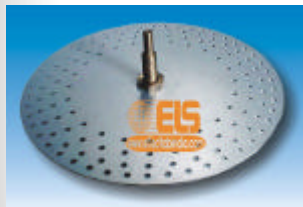


**Melde's apparatus** (ELP.107.124)

This is a modern version of the apparatus originally designed to show the effects of vibrations in a stretched cord, and investigate the relationship between frequency, tension and density. In addition the provision of electrical contacts, opened and closed by the vibrating armature, allow the apparatus to be used as high speed changeover switch in, for example, capacitor charge/discharge experiments. Comprises a thin steel rod armature, mounted in a clamp formed by a pair of 4 mm. socket terminals, so that its free length may be adjusted as desired. An AC. energising coil surrounds the armature and a permanent magnet provides the necessary magnetic polarisation. The free end of the armature equipped with a small boss and clamping screw for attachment of the cord and also serves as the moving contact when the apparatus is operating as a changeover switch. A pair of 'fixed' contacts are positioned either side of the armature, these also being adjustable for optimum position in their 4 mm.' socket terminal support clamps. The complete apparatus is carried upon a box type base 150x80 mm.

**Savart's toothed wheel** (ELP.107.131)

Four toothed wheel each of 7.5 cm. diameter, spaced 6 mm. apart on a shaft with projecting spindle with slight taper at its end. For use with whirling table Cat. No. ELP-377



**Siren disc** (ELP.107.132)

Metal disc 19 cm. diameter having four concentric rings of 35, 45, 54 and 72 holes respectively. Fitted with central spindle with slight taper at its end. For use with whirling table, with glass air tube.

**Siren with Indicator** (ELP.107.133)

It consists of an air chamber and a rotating disc having circles of holes. When the disc is rotated by blowing air a shrill sound is produced. By means of a worm gear the number of revolutions is recorded. Mounted on a base.

**Chladni's Plate** (ELP.107.134)

This experiment consists of a steel plate that vibrates when it is excited by stroking it with a violin bow. When sand is placed on top of the plate the oscillatory patterns can be observed in the patterns of the sand collecting on the plate.

**Model of ear** (ELP.107.135)

Enlarged, three-parts model showing the essential details, ear bones, tympanic membrane, cochlea, semi-circular canals, the eustachian tube, auditory nerve. Accurately coloured. Made from specially unbreakable and washable material. Mounted on wooden polished base of size 30x12.5 cm.x22.5 cm. approx. Complete with key card.

**Kundt's Tube** (ELP.107.136)

To determine the standing longitudinal waves in column of air and velocity of sound in air. Glass tube 100 cm. long and 3 cm. diameter closed at one end by a tight piston and having at the other end a loose piston mounted on polished wood base with supports for the tube and clamp for the rod.

**Lycopodium powder** (ELP.107.137)

For use in Kundt's tube, packed in bottle. Pack of 100 grams.

**Cork dust** (ELP.107.138)

For use in Kundt's tube, packed in bottle. Pack of 100 grams.

**Microphone** (ELP.107.145)

General purpose piezzo-electric crystal microphone, frequency response 60 to 10,000 Hz. Complete with 1.4 m screened lead, terminals and jack plug.

# Effective Laboratory Supplies



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# PHYSICS



### Loud Speaker (ELP.107.146)

4 ohm moving coil speaker, mounted in sheet metal frame for vertical or horizontal position, with two 4 mm sockets.

### Crova (ELP.107.147)

For showing progressive waves. Printed on card, 250mm diameter, with printed slit and instruction.



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