Ratsonic

The rodent deterrent with constantly changing ultrasonic distress frequencies

- Creates an environment which rodents are not able to tolerate.
- Protects your cash margins.
- Protects from health hazards.
- 64 random combinations of pulsating ultrasonic sound which simulate distress and aggression calls of rodents.
- Designed for maximum effectiveness by channelling sound along the edge of perimeter walls where rodents run.
- Simple to operate - just connect to power supply and position the speakers.
- Master unit with three built-in speakers can be supplemented with up to 10 optional slave units each fitted with one or three speakers.
- No maintenance or service costs.
- No potentially hazardous traps, poisons or chemicals.
- Around-the-clock protection.

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The Problem

Rodents are a serious public health hazard and eat away at your profits. They consume food, crops and goods in store, and do considerable damage to buildings. They are probably the most destructive animals on earth and are substantial carriers of disease.

The economic loss is not just in the materials which they eat, but also the consequential cost of cleaning and rebagging the commodities which can be well in excess of the value of the contents eaten. The combination of their voracity and constant gnawing with their incisive teeth results in damage to power cables and pipes thus creating a fire hazard.

They are remarkably reproductive with a female producing up to 5 litters per year, each of 7-14 offspring, and sexual maturity at 5 weeks and a gestation period of only 21 days this corresponds to a population growing by a factor of 10 in just 15 weeks.

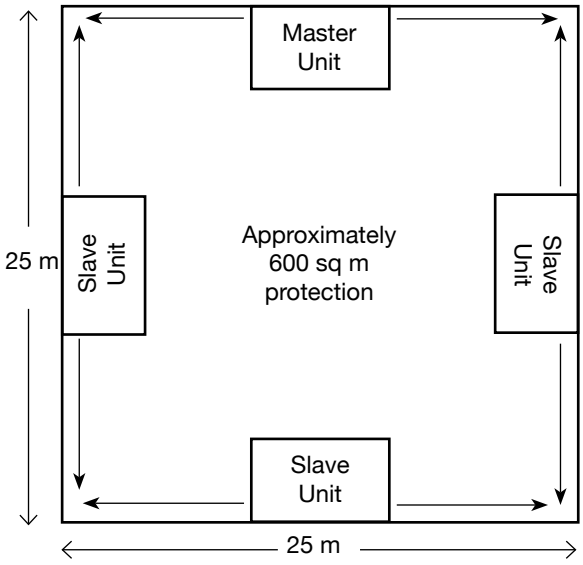
The Solution

The fertility of rats and mice means that the solution to protecting a particular building is not to be found by trapping or poisoning alone because the dead animals would soon be replaced by others. The only local solution is by making that environment unacceptable to rodents. This is achieved by the Ratsonic which emits a series of variably pulsating sound waves of 64 constantly changing combinations of ultrasonic sound which coincide with the frequency range of the distress and aggression calls of rodents. The result is an environment which is unacceptable to rodents and consequently they do not remain in a Ratsonic protected zone or seek to fill nature's vacuum created by the death or departure of others. The ideal is to initially combine killing existing rodents by conventional methods and to prevent re-infestation by use of the Ratsonic.

The Ratsonic has the additional advantages that there are no potentially hazardous traps, obnoxious poisons or chemicals, and offers around-the-clock protection without any need for site visits by maintenance or service personnel.

The Ratsonic, which is mostly inaudible and inoffensive to humans, is designed for use inside buildings and combines a mains or battery powered master unit with piezo tweeter speakers of 36 Khz frequency on three sides with a range of 15 metres and sockets for the connection to slave units. These slave units also have a similar pattern of either one or three speakers and sockets for connection to further slave units and can thus form a chain of speakers around the inside perimeter of a building. Unlike some competitive products, the particular advantages of the Ratsonic are its constantly changing output through speakers specially designed for high frequencies and the utilisation of new low power/high output technology. Furthermore the speakers are particularly effective because they are designed so that they may be sited along walls with speakers directed into corners and thus channel the sound along obstruction free edges of two adjacent walls where the rats and mice tend to run.

Typical Applications



Power	12 volts / DC lead acid accumulator. 30 Amp/hour minimum (small car battery) or 12 volt / 1 Amp mains adaptor. Operating voltage 10-15 volts.	**Temperature**	-30˚C to +70˚C
		Size	3-speaker Master Unit*: 150 X 100 X 55 mm. 3-speaker Slave Unit: 80 x 80 x 40 mm 1-speaker Slave Unit*: 70 x 50 x 28 mm **Fitted with an LED light*
Sound output	Ultrasonics: Max S.P.L. 135 dB (A). Max S.P.L. at 500mms. 135 dB (A) at 25 Khz. Max S.P.L. at 500mms. 100 dB (A) at 36 Khz. Effective area per unit/slave 150 sq metres.	**Weight**	3-speaker Master Unit: 210g 3-speaker Slave Unit: 95g 1-speaker Slave Unit 45g
Sound Frequency	18 – 36 Khz.	**Construction**	ABS plastic

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Scaringbirds.com Ltd
Lower Upton
Little Hereford
Ludlow,
Shropshire SY8 4BB
UK

Tel: + 44 (0) 1584 711701
E: info@scaringbirds.com

www.scaringbirds.com