MASER Ultrasonic Rodent Repellent

The mouse is considered one of the most troublesome and economically important pests in Bangladesh. Owners looking for a safe, humane and poison-free way to protect themselves from mice and rat invasions, a new rodent repeller from MASER, a world leader in rodent control. The technologically advanced ultrasound that is extremely irritating to rodents. Though undetectable to humans and non-rodent pets, the high frequency ultrasound expose the rodents to intense auditory stress, encouraging them to quickly scurry away. The MASER Ultrasonic Rodent Repellent is the fastest, easiest, most effective solution available.

MASER Ultrasonic Rodent Repellent has maximum coverage and protection for use in large indoor spaces like garages, attics, basements, warehouse, showroom, hospital, Hotel, Data Center, Telecommunication co-location and super shop. Their constant gnawing causes damage to structures and property.

**Ultrasonic Sound Technology**
Maser Ultrasonic Rodent Repellers are high frequency signal generators. These signals are fed to the transducers which in turn convert them into high frequency sound waves (well above the 20 kHz frequency which is the upper limit of the hearing range of humans). The transducers produce intensive sound waves at high volume (sound pressure) that are audible and painful to rodents but are inaudible and harmless to humans. The rodents usually leave the area being protected by the ultrasound waves immediately and at other times it may take as long as 4 to 6 weeks before there is significant reduction in rodent infestation. They do not get killed. The transducers are quiet. If you cannot hear them, do not think that the unit is not working. You cannot hear ultrasound.

**How does maser repeller work?**
The powerful sound waves generated by the transducers of the repellers are within the hearing range of many pests, and cause them pain and discomfort. Sometimes, the pests will leave the area being protected immediately, and at other times it will take as long as four to six weeks before there is a significant reduction in infestation.
The transducers are quiet. If you cannot hear them, do not think that the unit is not working. You cannot hear ultrasound. It takes three to six weeks for the system to have it's desired effect on the Rodents. The Ultrasound emitted by the machine becomes unbearable to the rodents and they try to run away. Rodents get irritated and look out for quiet safer areas.

As a result of the continuous sound pressure emitted by the machines some rodents become violent hence there should be an opening like a door or a window to escape. Post commissioning of the system sometimes shows increased rodent activities, what we say as the regular Post Commissioning Syndrome. The agitated rodents unable to bear the sound waves are disoriented and vent out their discomfort until they are flushed out or find an escape route.

Rodents stop entering the areas being protected by Maser Ultrasonic Pest Repeller, because the ultrasonic sound waves hit their eardrums and cause them considerable pain and discomfort. They do not get immune since the sound output is at varying frequencies. They do not die unless they get trapped in a particular place for days together or are under consistent exposure to ultrasonic sound.

**Can Sound Really Work as a Repellent?**
Yes, if used effectively. A simple “chirp” of a single tone, repeated every few seconds, is not enough to repel rodents. Complexity of sound and the dB output are both important factors. By using a programmable integrated circuit, for instance, MASER creates a continuous non-repetitive wave that runs throughout three octaves (32 to 62 kHz) and features three design spike points. Pulsing at 68-80 times per second, the unit makes a continuous, highly complex cacophony of noise to keep rodents away. The ultrasonic output of the MASER unit reaches a minimum sound pressure level (SPL) of 105 dB for maximum repelling capability. And, naturally, the sound levels are inaudible and imperceptible to humans (usually up to 20 kHz) and house pets (up to 27kHz).

**Will The Rodents Eventually Adapt to the Sound?**
Perhaps to a simple and repetitive sound. But the non-repeating, layered piercing wave of the MASER units prevents rodents from discerning any type of pattern or single tone within the complex piercing noise, making it impossible for them to aurally adapt to the unit over time.

**How far are Sonic Units Effective?**
Outputting at a minimum of 105dB, the MASER repels in an area of up to 400 square feet (approximately the size of a double-car garage). Since ultrasonic sound cannot penetrate walls, cabinets or furniture, a separate unit is required for each room for maximum effectiveness.
**Will the sound bother My Pets?**

Units outputting at 32kHz or higher are well above the hearing range of dogs, cats and other common pets like birds and fish. However, household rodent pets – such as hamsters, ferrets and guinea pigs – are affected by the noise, and should not be kept in the same room as an ultrasonic unit.

**Will the unit interfere with Electronics in the House?**

No. Ultrasonic units, which plug directly into the wall, do not interfere with television, radio, cable, telephone, cell phone, wireless or any other electronic signals.

**Effects of Ultrasound on Rodents:**

**Uncomfortable and painful:** The high pressure ultrasound waves have a very adverse effect on the ear drums of the rodents and is unbearable to them. They eventually leave the area after initial resistance.

**Adverse effect on the nervous system:** Ultrasonic sound waves have a very bad effect on the nervous system of Rodents and make them sluggish.

**Reproduction:** Ultrasonic sound waves reduce the very desire for sex in rodents and this in turn helps in controlling rodent population.

**Eating habits and Mobility:** If they stay in contact with the Ultrasonic sound waves for more than 3 or 4 days, possibility is that their eating habits get affected and mobility is reduced.