



Ultrasonic Rodent Repeller
- VHFO Digital Mini



Advanced Rodent Control Management From Maser
The Ultimate Solution For Your Downtime Problems



Ultrasonic Rodent Repeller - VHFO Digital Mini

Maser VHFO Digital Mini Model is a Microcontroller based Digital Ultrasonic Rodent Repeller. These are electronic transmitters of high frequency sound waves (well above 20 KHz frequency) which is the upper limit of hearing range of the human ear. They emit Intensive sound of high decibel levels (sound pressure) which are audible and painful for rodents but inaudible and harmless to humans. The acoustically hostile environment created by Maser Ultrasonic Rodent Repeller - VHFO DigitalMini Model induces auditory stress in rodents, thereby forcing them to leave the area being protected by ultrasound. They do not get killed.

Salient Features :

- Can drive upto 10 transducers. The transducers have to be looped to the system.
- Has 2 frequency bands of operation which are pre tuned for 100 different frequencies.
Band A : Ranges from 20 KHz to 50 KHz and
Band B : Ranges from 30 KHz to 60 KHz
The system automatically switches between these 2 frequency bands.
- Can be interfaced with any of our 4 transducer types i.e. VHFO, MistE, StreamE and Torrant.

The System

- Maser VHFO Digital Mini is a system of one master controller and accessories that include 10 nos. of transducers.
- Maser VHFO Digital Mini model should be plugged in to a 230 volts standard wall outlet/UPS power supply. It needs to be ON 24 hours a day.
- The green light (LED) will go ON and OFF to indicate that the unit working.
- The master controller is installed in the main control/server room and additional transducers in the problematic area i.e. above false ceiling, below false ceiling and below false flooring.
- Maser VHFO Digital Mini controller can be interfaced with 4 different types of transducers and the area coverage w.r.t. to the transducers is mentioned below.

VHFO Transducer :

Each transducer covers an open area of 300 sq. ft. But if installed in the false ceilings or false floorings, it will cover an approximate area of 150 sq. ft. Each transducer occupies a maximum space of 3 cubic inches.

MistE Transducer :

Each transducer covers an open area of 360 sq. ft. But if installed in the false ceiling or false floorings, it will cover an approximate area of 180 sq. ft. Each transducer occupies a maximum space of 5 cubic inches.

StreamE Transducer :

Each transducer covers an open area of 400 sq. ft. But if installed in the false ceilings or false floorings, it will cover an approximate area of 200 sq. ft. Each transducer occupies a maximum space of 10 cubic inches.

Tarrant Transducer :

Each transducer covers an open area of 500 sq. ft. But if installed in the false ceilings or false floorings, it will cover an approximate area of 250 sq. ft. Each transducer occupies a maximum space of 15 cubic inches.

- The transducers can be tested on an audible range with the help of a test switch provided in the front panel of the system.

Guarantee :

The machine Maser Ultrasonic Rodent Repeller - VHFO Digital Mini is guaranteed for one year from the date of purchase by the user, against any defects in material or workmanship.

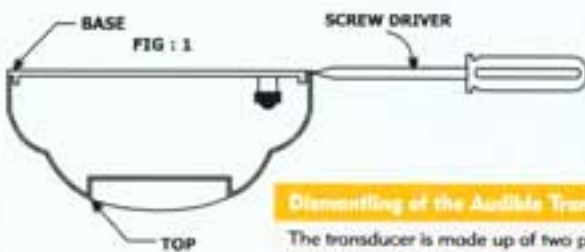
Specifications :

Configuration :	One Master Console with 10 transducers. Looping Permitted.
Operating :	20 KHz to 60 KHz
Sound Output :	80 dB to 110 dB at 1 meter
Power output :	800 mW per transducer (VHFO transducer) 850 mW per transducer (MistE transducer) 900 mW per transducer (StreamE transducer) 1W per transducer (Tarrant Transducer)
Frequency Divisions	: 100
Power Consumption	: 5 Watts per transducer
Power Supply	: 230V AC 50Hz
Dimensions	: 225 mm x 65mm x 115 mm
Weight	: 1250 gms.

Procedure for Installing Maser VHFO Digital Mini

1. Select a location for Maser Controller in the problematic area. Connect it to a 230 VAC supply. Check for proper earthing before connecting the controller.
2. The transducers have to be fixed at a height of 10 to 12 feet from the ground level, in the main room, and the distance between the transducers should be maximum 20 feet.
3. Install the transducers as per the markings on your floor plan.
4. The transducer comprises of 2 parts, Pry open the bottom lid of the transducer to connect the cables with the help of screws provided. The bottom lid of the transducer is to be fixed to the Wall, Ceilings, Flooring and the top part of the transducer is to be pressed fitted to the bottom lid.
5. The transducers have to be looped and cables need to be encased in a PVC/GI conduit pipe.
6. Continuity test to be done with the help of the test switch provided in the front panel of the system.
7. All conduiting to be done aesthetically.

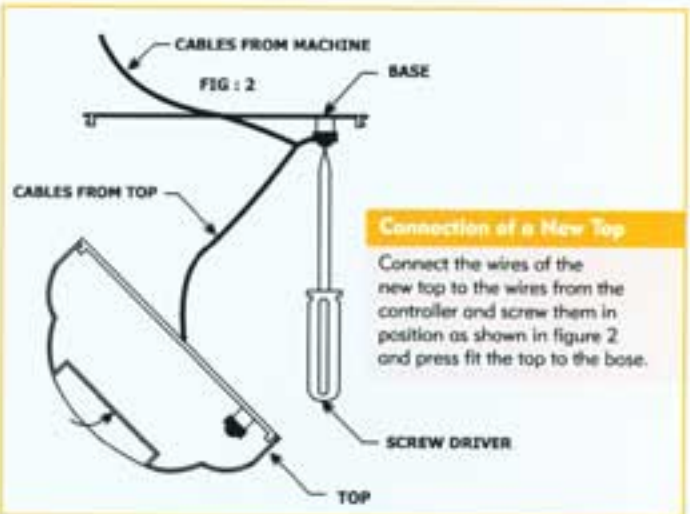
PROCEDURE FOR REPLACEMENT OF AN AUDIBLE TRANSDUCER



Dismantling of the Audible Transducer

The transducer is made up of two parts 1) Base and 2) Top.

Pry open the top from the base with the help of a screw driver as shown in Fig 1. Disconnect the wires from the base and separate the top from the base.



Connection of a New Top

Connect the wires of the new top to the wires from the controller and screw them in position as shown in figure 2 and press fit the top to the base.



MASER ULTRASONIC RODENT REPELLER
- VHFO DIGITAL MINI



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