



VHFO Digital  
LP 24



## Ultrasonic Frequency Generator - VHFO Digital LP 24

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



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### INTRODUCTION

Maser Ultrasonic Rodent Repeller VHFO Digital LP 24 is a high frequency random signal generator operating between 20khz to 60khz. The console consists of a master microprocessor and a dedicated driver for the transducers. It can support 24 transducers in a single loop.

The signals from the microprocessor are fed to the dedicated driver. The dedicated driver distributes these signals to the transducers. The transducers then convert these signals in to high frequency sound waves (well above the 20khz frequency which is the upper limit of the hearing range of humans). The transducers emit intensive sound waves at high decibels (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 the unit is not working. You cannot hear ultrasound.

### SALIENT FEATURES:

- ❑ 4X20, 80 characters LCD display with on-board controls for changing the following parameters.
  - **Wave Speed:** Is an indicator for the number of frequency sweeps per minute. It can have a maximum value of 120 and a minimum value of 60. The incremental size is 20 i.e. 60, 80, 100, 120.
  - **Wave Density:** Is an indicator for the number of divisions within a frequency band. It has two values 80 and 100.
  - **Frequency Band Time:** Is an indicator of the time for which the controller would operate in a pre programmed frequency band. There are 3 bands available: Band A, Band B, and Band C. This parameter can have a maximum value of 10 minutes per band. Depending upon the time frame set for each band, the controller will switch the bands automatically.
  - **Machine/Controller ID:** Is an indicator of the machine/controller identification number. It can have any value within the range of 0 to 255.
  - **Password Protection:** Every controller is password protected. To change the parameters mentioned above you have to key in the password. The password can be changed if required. The password can be any 5 digit number.

- **Frequency Testing:** This feature will enable the user to test and verify the frequency that is being transmitted from the controller to the transducer. This feature would be particularly useful during systems audit.
- **Transducer Testing:** In the testing mode all the 24 transducers connected to the controller can be tested in an audible range.

- ❑ Provision for restoring all the parameters to the factory default setting.
- ❑ Frequency band of >20 KHz and <60 KHz is pretuned for 100 different frequencies.

### THE SYSTEM

Maser VHFO Digital LP 24 is a system of one master controller and accessories that include 24 nos. of MASER transducers, 300 yards of cable and a powder coated MS stand. The master controller is installed in the main control room/ server room and the transducers in the problematic areas i.e. above and below false ceiling and below false flooring.

VHFO Digital LP 24 needs a power connection of 5 A electrical plug point and comes equipped with a 3 pin power supply cord of 1.5 meters.

### MASER TRANSDUCERS

Each transducer covers an open area of 500sq.ft. when the average height of the ceiling is 12ft. Even when installed in the false ceilings or false floorings, it will cover an area of 500sq.ft. The same is possible because of the transducers streaming effect design. Each transducer occupies a maximum space of 5 Cu. Inches and comes with a blinking LED.

### STAND

Powder coated MS stand accessory for mounting of the master controller.

### CABLES

Standard 2core, flexible (14/40) SWG multistranded or 0.5sq. mm single strand, CT wires of 275 meters for connectivity between the transducers and the master console.

### SPECIFICATIONS:

Operating frequency	: Above 20KHz and below 60KHz
Sound output	: 80dB to 110dB at 1 meter
Power output	: 800 mW per transducer
Sweeps per minute	: 120(configurable)
Frequency divisions	: 100(configurable)
Power consumptions	: 15 Watts Approximately
Transformer rating	: 25V.A. CE Certified, 3 Amps
Power supply	: 230V AC/50Hz 14Volts DC
Dimensions	: 325mm X 260mm X 80mm
Weight	: 4.5 Kgs. (approx.)
Mounting	: Wall/Table mounting

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