

Varna Suraksha ZX Model

Specifications:	
Power Supply	220V AC Mains Outlet / 50 HZ Frequency
Power Output	800 mW Transducer
Power Comsumptions	15 Watts Approximately
Connects Upto	20 Transducers
Operating Frequency	Above 20 KHz
Sound Output	80 - 110 dB (Not Audible to Humans)
Mounting	Wall / Table Mounting
Brackets for Main Unit	Provided
Wire Bundle	90 Meters



Main Master Unit



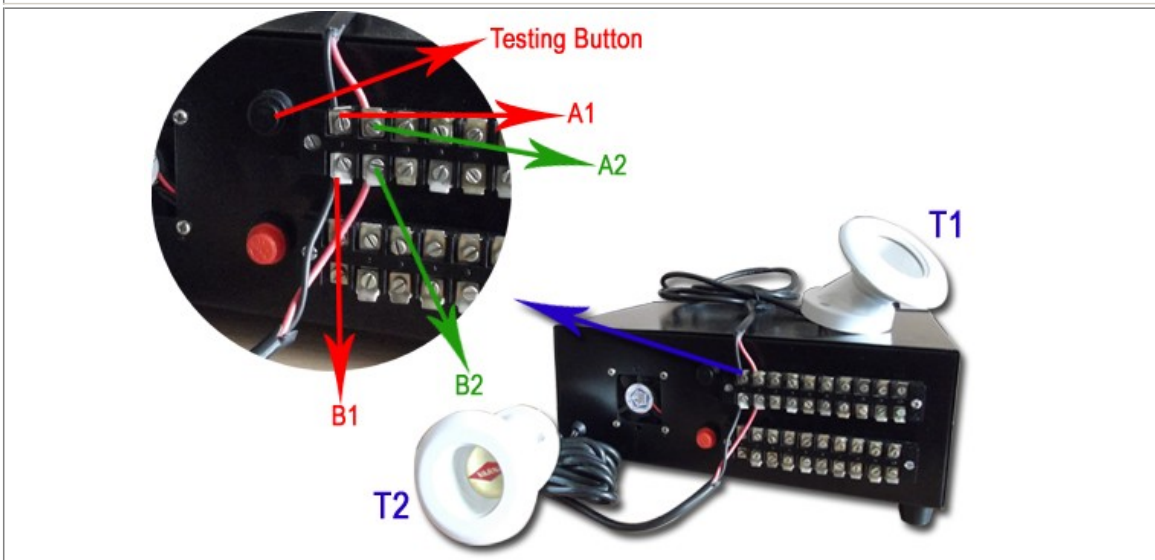
Transducers

How to Install or Place the Units (Installation Manual)

- Fix the Main Master Unit in an electrical room (proper ventilation is must) with provided brackets.
- Plug the main unit into a Indian standard 220/230 VC wall outlet point.
- Cut required length of wire for each transducers from the Main Master Unit.
- Connect the transducers to the master console socket provided behind. And fix the transducers to the wall or ceiling for every 300 sq ft areas. If false ceiling or underfloor, fix transducers every 150 Sq Ft. for better results.
- Distance between each transducers should be within 20 feet.
- It is ideal to mount the transducers on a wall 10 feet off the floor.
- Transducers in the main floor or false ceiling should face a wall, it should not face open windows or doors. This will help to rebound the waves for maximum effect.
- Any Transducer wiring should be within the limit of 200 meters from the main unit.
- Use bends and not elbows for smooth pulling of Transducer wires.
- All the Transducers can be tested in an audible range by pressing Push button in the main unit when it is switched ON.

Picture Guide - How to connect Master Console & Transducer

MAIN MASTER - BACK PANEL



1. Connect first transducer **T1** to the pair **A1** & **A2** and place the Transducer beyond 10 feet (maximum 20 feet) from the Main Master console.
2. Later, connect second transducer **T2** to the pair **B1** & **B2** and place the Transducer beyond 10 feet (maximum 20 feet) from the other transducer.
3. In similar way, you can connect upto 18 transducers to the remaining pairs. And all the transducers can be tested by

pressing "Testing Button" in the main master console.

Please Note:

- All transducers are identical, you can mix any transducers and connect.
- The red light (LED) will blink to indicate that the unit is working.
- Leave the system ON 24 hours a day for continuous protection.
- Within 2-3 weeks you can notice the reduction in rodent activity, if not, you will have to install additional units. (Please note: Usually, the type of structure, contents and partitions may limit the area of effectiveness, so please make sure to place the unit carefully.)

How to Connect Transducers with wires between Main Master Console & Transducers



Warranty

Repellent comes with a warranty of one year against manufacturing defects from the date of purchase. The unit will be repaired under warranty only if all the usage instructions mentioned above have been followed and the unit is neither tampered with nor damaged in anyway.

Some of our Clients listed using our repellents -

1. Reserve Bank of India, Patna
 2. Hyundai Motor India Ltd
 3. HAL
 4. Cipla Ltd.
 5. Indian Express
 6. Exide Industries
 7. Comanding Officer INAS 333
 8. Comanding Officer AMLA
 9. Auctus Pharma Ltd.
 10. Bramhani Industries Limited
 11. Central Research Lab
 12. Marthrubumi Printing
 13. MORE! Super Market
 14. NTPC
 15. Pharma Lab India Pvt. Ltd.
 16. University of Pune
 17. Himalya Drug Company
- and more..**

Frequently Asked Question

1. **How does this ultrasonic repellent work?**
Answer: This rat deterrent unit emits ultrasonic sound waves to create an acoustically hostile environment that repels rodents, this frequency of sound will induce auditory stress to rodents and make them to move away. It is best bet than traps, it is chemical free and completely inaudible to people and non-rodent pets.
2. **Will rodent get used to this repellent after a period of time?**
Answer: Definitely No! The unit uses a complex "swept" sound frequency with multiple "peaks". The intensity, complexity and changing frequencies prevent rodents from getting used to the sound emitted.
3. **Can ultrasound irritate family pets?**
Answer: Family pets like dogs and cats will not get disturbed by this frequency. This ultrasonic rodent repellent will only affect rodents, rats, mouse, mice, hamsters, guinea pigs and squirrels.
4. **Does ultrasound penetrate through walls or other rooms?**

Answer: No. Actually, ultrasonic waves behave more like light than sound. You will have to install separate unit in another room where you have rodent problem.

5. **What area / square footage does the ultrasonic wave cover?**

Answer: It depends upon on each individual room or space. Since the ultrasound is too fragile, sound wave may dispel rapidly with distance, and it may have reduced effect on rodents more than 20 feet from the unit. If the room/ godown is too large with lot of furniture, products or barriers, you will need to install more than one unit for maximum effectiveness.

6. **Does Ultrasonic Rodent Repellent really work? Any research done?**

An independent research University "University of Nebraska - Lincoln" had conducted a detailed research in the year 1984 to assess the efficacies of ultrasonic rodent repellent devices in the laboratory where no other rodent control was conducted at the study sites other than the application of ultrasonic devices. **Test Report concludes that "Rodents under test could either leave the buildings or move to alternate non-ultrasonically treated areas."** Source:

<http://digitalcommons.unl.edu/vpc11/37/>

7. **Will it be controlled from the same day of installation or How long it will take to curb rat menace after installing?**

Answer: It will take minimum 6 -7 days to reduce and stop rodent activity. Within two or three weeks, or sooner, you should see a reduction in the pest activity (sighting of pests and droppings, and damage). If not, you may need one or more additional units.

8. **What is the durability of the Unit?**

Answer: Estimated service life of this unit is 5-6 years.

9. **Does it control other pest like cockroaches, ants or insects etc.?**

Answer: Some insects can repel to the ultrasonic sound, but we do not assure this unit can also control other pest problems.

10. **Does the ultrasonic rodent repellents chase rats in all places efficiently any exclusions?**

Answer: Repellents work efficiently in indoor premises like offices, godowns, server rooms and any other closed premises with less external noises only. The ultrasound waves will not efficiently work in the outdoors like garden, patios and any other noisy areas where are the waves gets dispersed. And also food storage areas like bakery and hotel kitchen areas are prone to food spillage and heavy infestation of rodents, in this case, rodents need to be flushed out using Glue pads or Rat traps only.