

# ULTRASON X INSTRUCTIONS

## PRIOR TO INSTALLATION

Your complete Ultrason X kit includes a control unit, power adapter, mounting hardware and four speakers. Open the control unit by lifting the two latches on the side of the enclosure. Route the speakers and power cables from their respective jacks on the control panel down through the cable strain relief in the lower part of the enclosure.

## INSTALLATION

Important safety related information:

1. Do not install the device during rain or snow conditions.
2. Installation shall be made in such a way that a power supply and the internal part of the control unit never be subjected to water or snow.
3. Note that a power supply powered from 230 VAC (Model LB120050) is intended for indoor use only.

- 1) Use the mounting hardware to mount the control unit box to a wall, post or other vertical surface.
- 2) Plug the AC power adapter into a standard household 110V outlet or an outdoor rated outlet protected from moisture. An optional 220V adapter is available for use with 220-volt source power. The other end of the cable should already be plugged into the power jack located below **POWER** on the front panel of the control unit box.
- 3) **Speaker positioning:** In general, place speakers at the level of the birds, and as close as possible to the infested area. Position them either in a central area facing out, or in four outer areas facing further out. Birds should be constantly exposed to the greatest sound diversity without too much physical obstruction of the sound waves. If you're not sure exactly where you will want to place the speakers, we suggest temporary installations with wire ties until you determine where you want them permanently. The four individual speakers feature 100 feet of speaker cable that enable them to be positioned in a wide array of areas for optimal coverage.
- 4) Set the frequency, as desired. (See "**PROGRAMMING YOUR ULTRASON X**" for complete details).
- 5) Slide the power switch to the **ON** position. The unit may take a few seconds before starting. The red light will be lit continuously whenever the unit is operating.
- 6) Close the cover and latch shut. Ensure that the cover is properly latched closed and do not open the cover during rain or other conditions that would expose the inside of the control unit to water.

## **PROGRAMMING YOUR ULTRASON X:**

### FREQUENCY SWITCH

HIGH, MED and LOW refer to the frequency of the ultrasound waves (not volume). We recommend you begin on LOW, and then vary between the three every so often (for example, during routine maintenance operations in the area).

### POWER SWITCH

The power switch enables the unit to operate. Slide the switch to the ON position to start the unit. If you turn the unit OFF, be sure to leave it off for about 30 seconds before turning it back on to allow the electronics to properly reset.

### HOW THE SOUNDS MOVE FROM SPEAKER TO SPEAKER

Each speaker broadcasts sounds for two seconds then switches to the next speaker in sequence. (Note: Occasionally, any given speaker may emit a high-frequency squeak in addition to its regular ultrasonic sound wave. This is completely normal, and is caused by this type of speaker working with this type of sound.)

### PREVENTATIVE MAINTENANCE

Since 1964, our products have provided years of trouble-free service with only a minimum of routine maintenance. This unit is specifically designed for extensive outdoor use and temperature extremes. The electronic circuits inside the unit are coated for oxidation and moisture protection and need no maintenance. For the longest life of external components, clean off any excess dirt or corrosion. Twice a year, lubricate the switch sockets and the connections with silicone spray.

### ADDITIONAL USES – DOGS, CATS, DEER and WILD ANIMALS

The Ultrason X can also be used to repel dogs, cats, deer and other wild animals. Use the low setting for dogs; use the high setting for cats. To repel both, use medium or low.

Wild animals rely on their sense of hearing even more and therefore any setting may be effective against a variety of wild animals including feral cats. Deer are easiest to repel if the unit is operating prior to their return in early spring. In a dry year, when both food and water are in short supply, deer can become very aggressive. For long-term success against deer, move the speakers regularly to different angles and change the sound settings. The low setting is recommended for rats, ferrets, weasels, skunks, raccoons, opossums and deer.

The lower the frequency, the greater the area of coverage.

Sound patterns formed by each frequency  
(Diagram and numbers are maximum PER SPEAKER):

**25 feet (7.6 meters) by 36 feet (11 meters)**

(or 84 square meters)

### **LOW**

900 Square Feet (or 3,600 Square Feet for all four)

(or 84 square meters for all four)

### **MEDIUM**

675 Square Feet (or 2,700 Square Feet for all four)

(or 63 square meters for all four)

### **HIGH**

570 Square Feet (or 2,280 Square Feet for all four)

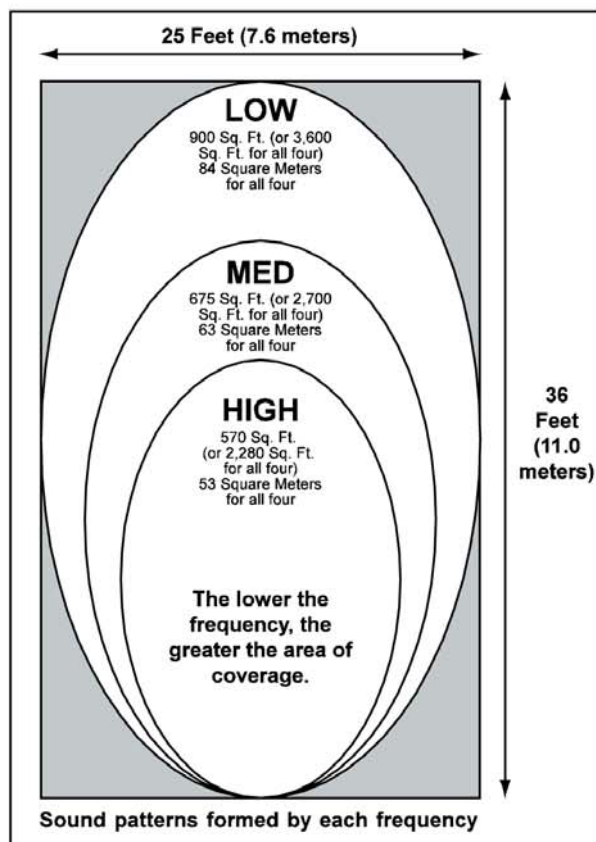
(or 53 square meters for all four)

LIMITED WARRANTY: This Ultrason X unit is warranted against defects in material and workmanship for six months from date of purchase (extended warranty available).

Returns accepted only with authorization from our Chicago office.

### **SUCCESSFUL LONG-TERM BEHAVIOR MODIFICATION**

Product success takes time to build. Bird and pest habits may take several days or weeks to break. Follow all suggestions for maximum efficacy. "Instant" tests do not replicate natural conditions and give no indication of the unit's success with the infestation.



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