

X-PEST AR02

Solar-Powered Ultrasonic Animal Repellent User Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your X-PEST Solar-Powered Ultrasonic Animal Repellent. This device is designed to humanely deter various animals from your outdoor spaces using high-frequency sound waves and flashing lights.

2. PRODUCT FEATURES

- **Humane Deterrence:** Emits high-frequency sound waves and flashing lights to make animals uncomfortable, encouraging them to leave without harm.
- **Motion Activated:** Equipped with a PIR sensor that automatically triggers ultrasonic waves and LED strobe lights upon detecting animal intrusion.
- **Multiple Operating Modes:** Features 5 adjustable modes and sensitivity controls to effectively repel a variety of animals.
- **Solar Powered & Waterproof:** Utilizes a solar charging panel for eco-friendly operation and boasts an IP65 waterproof rating for outdoor durability in various weather conditions.
- **Easy Installation:** Can be easily inserted into soil or placed in desired outdoor areas.
- **Wide Coverage:** Offers a detection range of up to 30 feet and a 110-degree coverage angle.

3. PACKAGE CONTENTS

Your package should contain the following items:

- X-PEST Solar-Powered Ultrasonic Animal Repellent Unit(s)
- Ground Stake(s)
- User Manual (this document)



Image: Two X-PEST Solar-Powered Ultrasonic Animal Repellent units, showing the main product and its packaging.

4. PRODUCT COMPONENTS AND DIMENSIONS



Image: Detailed diagram illustrating the solar panel, ultrasonic speaker, sensing distance control, frequency control, PIR sensor, and LED flashing light, along with overall dimensions (3.3in width, 5.2in height for head, 20.4in total height with stake).

- **Solar Panel:** Converts sunlight into electrical energy to charge the internal battery.
- **Ultrasonic Speaker:** Emits high-frequency sound waves.
- **PIR Sensor:** Passive Infrared sensor detects motion and triggers the device.
- **LED Flashing Light:** Provides visual deterrence, especially effective at night.

- **Sensing Distance Control:** Adjusts the detection range of the PIR sensor.
- **Frequency Control:** Selects the ultrasonic frequency mode.

5. SETUP AND INSTALLATION

1. **Unpack:** Carefully remove all components from the packaging.
2. **Assemble:** Attach the repellent unit to the ground stake. Ensure it is securely fastened.
3. **Placement:** Choose a location in your yard, garden, or lawn that receives ample direct sunlight for the solar panel to charge effectively. The device should be placed in an area where animal activity is observed.
4. **Insert:** Gently push the ground stake into the soil until the repellent unit is stable and at the desired height. Ensure the PIR sensor faces the area you wish to protect.
5. **Initial Charge:** For optimal performance, allow the device to charge under direct sunlight for at least 8 hours before first use. Alternatively, it can be charged via the Type-C port (cable not included).



Image: Illustration of the two charging methods: solar panel charging and Type-C port charging, highlighting the device's versatility.



Image: Visual representation of the PIR motion sensor's detection capabilities, showing a 30-foot sensing distance and a 110-degree detection angle, effective for various animals.

6. OPERATING INSTRUCTIONS

The X-PEST Solar-Powered Ultrasonic Animal Repellent features adjustable sensitivity and multiple operating modes to target different animals.

6.1. Sensing Distance Control

Use the "Sensing Distance Control" knob (labeled MIN/MAX) to adjust the sensitivity of the PIR motion sensor. Turning it towards MAX increases the detection range.

6.2. Frequency Control (5 Working Modes)

Use the "Frequency Control" knob (labeled I to V and OFF) to select the desired operating mode:

Mode	Frequency/Action	Target Animals
Mode 1	18-25.5 kHz Ultrasonic	Rats, Dogs, Foxes, Deer
Mode 2	20-35 kHz Ultrasonic	Cats, Raccoons, Badgers, Skunks
Mode 3	30-45 kHz Ultrasonic	Bats, Birds, Squirrels, Rodents
Mode 4	LED Flashing Light	Wild animals (Raccoons, Snakes, Boars, Minks)
Mode 5	Cyclic operation of Modes 1, 2, 3 with Flashing Light	All animals



Image: Visual guide to the 5 operating modes, detailing the ultrasonic frequencies and target animals for each setting, including the LED flashing light mode.



Image: Depiction of the 1300 Lux flashing light, indicating its effectiveness in deterring nocturnal animals.

7. MAINTENANCE

- **Cleaning:** Periodically wipe the solar panel and sensor window with a soft, damp cloth to ensure optimal performance. Do not use abrasive cleaners.
- **Battery:** The built-in battery is designed for long-term use. If the device's performance significantly degrades, ensure it is receiving adequate sunlight for charging.

- **Winter Storage:** If storing the device for extended periods during winter, ensure it is fully charged and stored in a dry place.
- **Waterproof Rating:** The device has an IP65 waterproof rating, meaning it is protected against dust and low-pressure water jets. While it can withstand rain and snow, avoid submerging it in water.



Image: The repellent unit shown in a rainy environment, illustrating its IP65 waterproof capability for uninterrupted outdoor use.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device not turning on or activating.	Insufficient battery charge.	Ensure the solar panel receives direct sunlight for at least 8 hours. If cloudy, charge via Type-C port.
Animals are not deterred.	Incorrect mode selected; sensitivity too low; animal habituation.	Adjust the Frequency Control to a different mode (e.g., Mode 5 for cyclic operation). Increase Sensing Distance Control. Relocate the device or combine with other deterrents if animals become accustomed.
Detection range is poor.	PIR sensor obstructed or dirty; sensitivity too low.	Clean the PIR sensor window. Increase Sensing Distance Control. Ensure no obstacles block the sensor's view.

9. SPECIFICATIONS

Feature	Detail
Product Dimensions	3.3 x 5.2 x 2.3 inches (unit head)
Item Weight	1.39 pounds (0.63 Kilograms)

Feature	Detail
Model Number	AR02
Brand	X-PEST
Color	Green
Power Source	Solar Powered (with Type-C charging option)
Waterproof Rating	IP65
Detection Range	Up to 30 feet
Detection Angle	110 degrees
Ultrasonic Frequencies	18-45 kHz (variable by mode)
UPC	647581402351

10. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the contact details provided with your purchase or visit the official X-PEST website. Keep your purchase receipt as proof of purchase.

For further assistance, you may contact X-PEST customer service through their Amazon store page:[X-PEST Store](#)