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ISOTRONIC 60300

ISOTRONIC Solar Animal Repellent with Frequency and Flame Light

Model: 60300

1. Introduction

The ISOTRONIC Solar Animal Repellent is an advanced device designed to protect your outdoor spaces from various wild animals. It combines ultrasonic frequencies and an automatic flame light to create an unpleasant environment for unwanted guests, encouraging them to leave without harm. This unit is solar-powered, energy-efficient, and built for outdoor use, providing a humane and chemical-free solution for animal deterrence.

2. Safety Instructions

- Read all instructions carefully before installation and use.
- Ensure the device is installed in a location where the solar panel receives direct sunlight for optimal charging.
- The device is weather-resistant (IP44 rated) but should not be submerged in water.
- Keep the device out of reach of small children.
- While generally safe for humans, the ultrasonic frequencies may be audible and potentially irritating to some individuals, especially children, and domestic pets. Position the device away from areas where people or pets frequently gather.
- Remove any potential food sources (e.g., pet food) from the protected area to avoid attracting animals unnecessarily.
- Do not open or attempt to repair the device yourself. Contact customer support for assistance.

3. Package Contents

Your package should contain the following items:

- 2 x ISOTRONIC Solar Animal Repellent Units
- 2 x Ground Stakes (multi-part for adjustable height)
- 2 x USB Charging Cables (for alternative charging)
- Integrated AA rechargeable batteries (pre-installed)

4. Product Features

- **Solar Powered:** Equipped with a solar panel for continuous charging during daylight hours.
- **Weather-Resistant (IP44):** Designed for outdoor use in various weather conditions.
- **Automatic Flame Light:** Activates at dusk to deter animals and provide decorative lighting.
- **PIR Motion Sensor:** Detects animal movement to trigger ultrasonic frequencies and flame light, conserving energy.
- **Ultrasonic Sound:** Emits high-frequency sound waves to repel animals without harm.
- **Wide Coverage:** Effective range of approximately 4 to 8 meters, with a recommended placement of one unit every 6-8 meters for optimal coverage.
- **Multiple Operating Modes:** Adjustable frequency settings and flame light options to target different animals.
- **Dual Charging:** Can be charged via solar power or USB cable.



Image 4.1: Key features of the ISOTRONIC Solar Animal Repellent, including solar charging, IP44 waterproofing, flame light, PIR sensor, and ultrasonic sound emission.



Image 4.2: Examples of wild animals such as deer, cats, and raccoons that can be deterred by the device.

5. Setup and Installation

The ISOTRONIC Solar Animal Repellent offers flexible installation options:

5.1 Ground Installation

1. Assemble the ground stake by connecting the sections.
2. Attach the repellent unit to the top of the assembled stake.
3. Choose a location in your garden or outdoor area that receives ample direct sunlight for the solar panel.
4. Gently push the stake into the ground. Ensure the unit is positioned at a height appropriate for the target animals (e.g., closer to the ground for smaller animals, higher for deer).
5. Point the device towards the area you wish to protect. For optimal coverage, place units every 6-8 meters.

5.2 Wall Mounting

1. Identify a suitable wall or fence location that allows the solar panel to receive direct sunlight.
2. Use appropriate screws (not included) to secure the unit to the wall using the mounting holes on the back.
3. Ensure the device is securely fastened and pointed towards the desired protection area.

Important Note: Do not turn on the product until installation is complete.



Image 5.1: Illustration of easy installation methods, including ground staking and wall mounting.

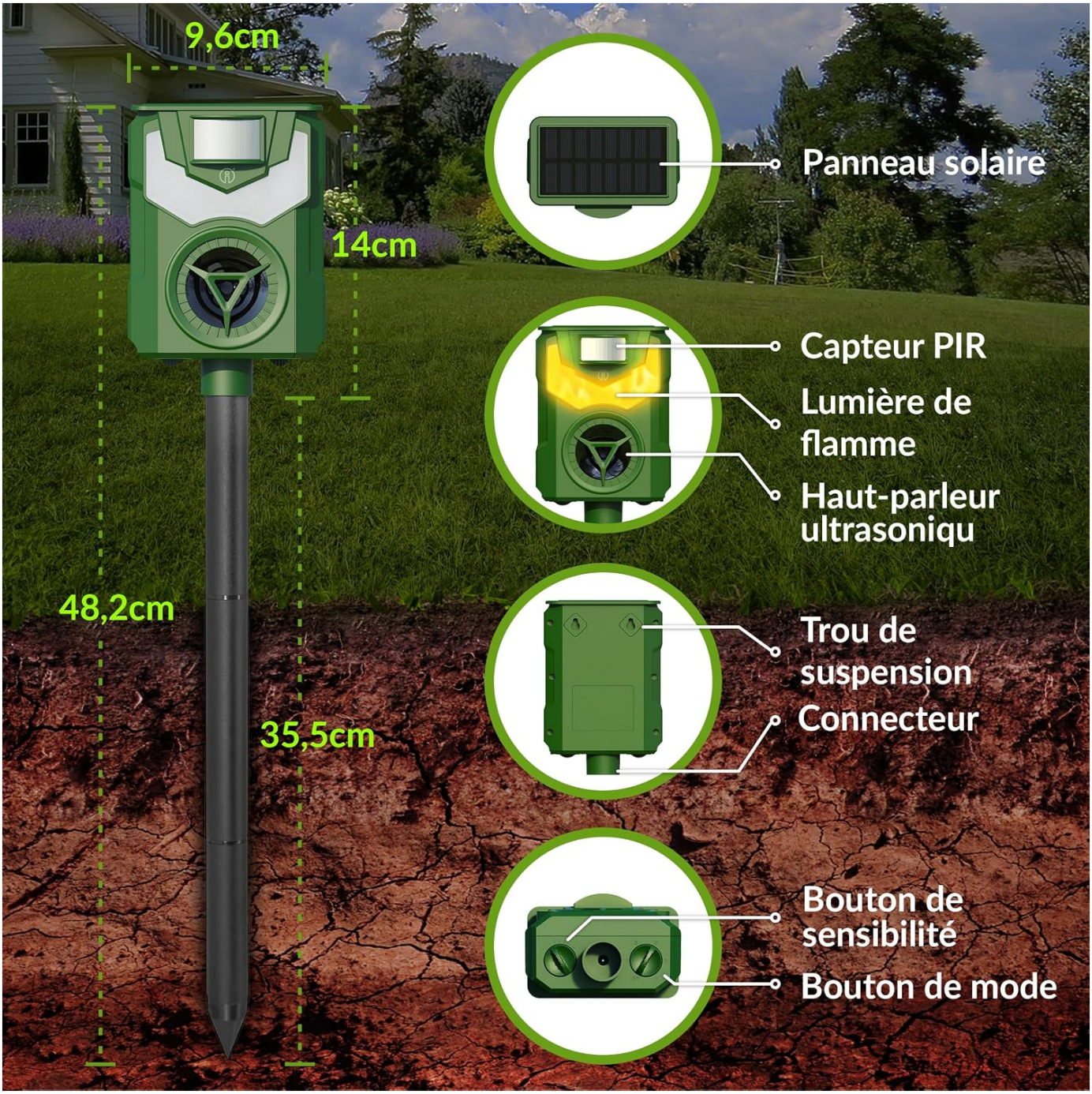


Image 5.2: Diagram showing the main components and dimensions of the repellent unit, including the solar panel, PIR sensor, flame light, ultrasonic speaker, and control buttons.

6. Operating Instructions

The repellent unit features two adjustable dials and multiple operating modes:

- **Sensitivity Dial (Left):** Adjusts the detection range of the PIR motion sensor. Turn clockwise for higher sensitivity and wider detection range.
- **Mode Dial (Right):** Selects the operating mode and ultrasonic frequency.

Operating Modes:

- **Mode 1:** Ultrasonic frequency 13.5 - 20 kHz with flame light. Effective for small animals like mice, rats.
- **Mode 2:** Ultrasonic frequency 15.5 - 25 kHz with flame light. Effective for medium-sized animals like cats, dogs, martens.
- **Mode 3:** Ultrasonic frequency 25 - 45 kHz with flame light. Effective for larger animals like deer, wild boars, foxes.
- **Mode 4:** Flame light only. No ultrasonic sound. Activates at dusk.

- **Mode 5:** Cycles through Modes 1, 2, and 3 with flame light. Provides comprehensive deterrence for various animals.

To activate the device, turn the mode dial to your desired setting. The flame light will automatically activate at dusk when motion is detected (except in Mode 4 where it's always on at dusk).

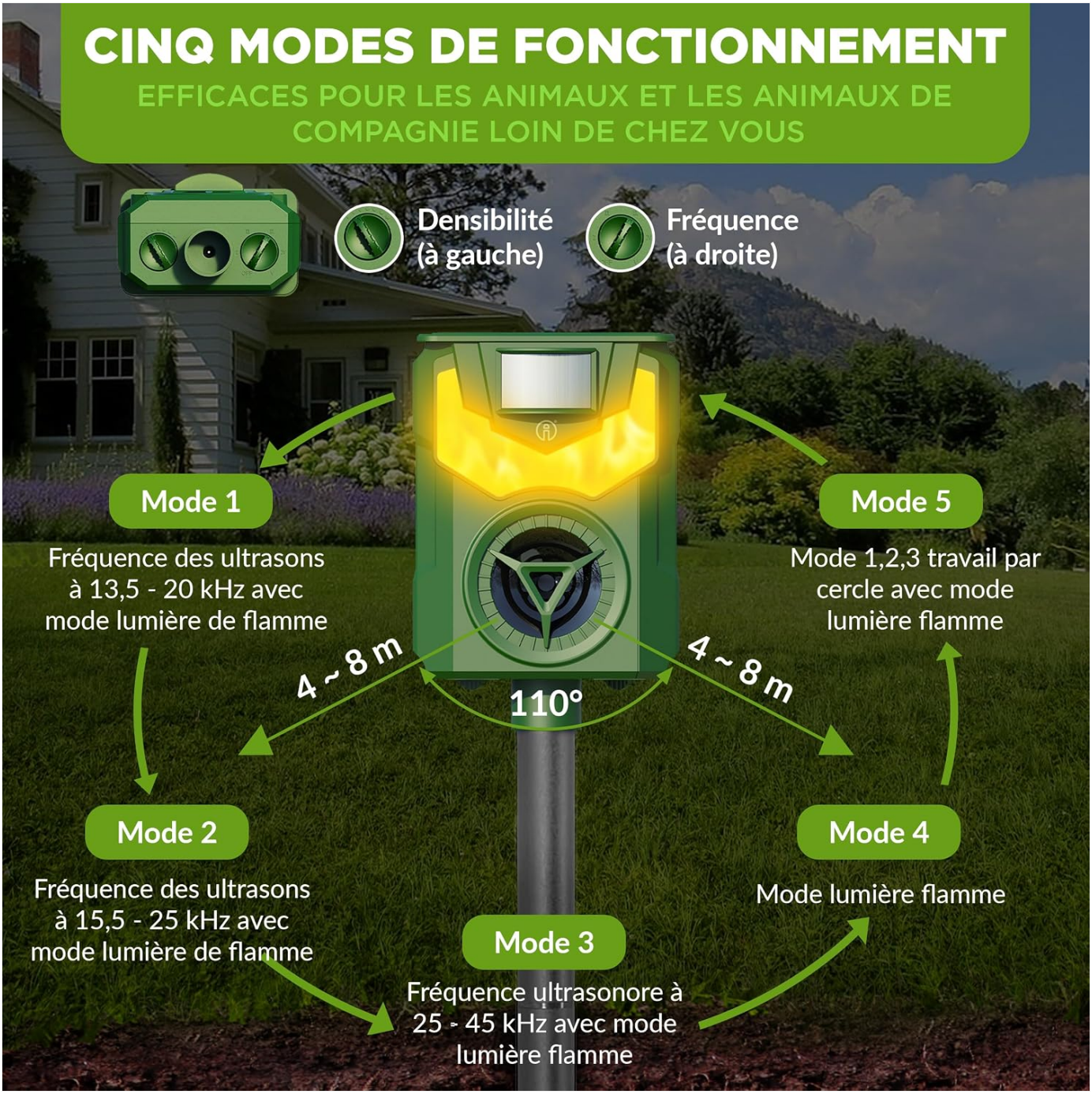


Image 6.1: Diagram illustrating the five operating modes, their corresponding ultrasonic frequencies, and flame light activation.



Image 6.2: The flame light feature of the repellent unit, which functions only at night to deter animals and intruders.

7. Maintenance

- **Solar Panel Cleaning:** Regularly wipe the solar panel with a soft, damp cloth to remove dust, dirt, or debris. A clean solar panel ensures efficient charging.
- **Battery Charging:** The device primarily charges via its solar panel. If prolonged cloudy weather or insufficient sunlight occurs, you can use the provided USB cable to charge the internal AA batteries. Connect the USB cable to the charging port on the unit and a standard USB power source (e.g., computer, USB wall adapter).
- **Seasonal Storage:** If storing the device for an extended period, ensure it is fully charged and stored in a dry place.



Image 7.1: Illustration of the two charging methods: solar charging during the day and USB charging for alternative power.

8. Troubleshooting

Problem	Possible Cause	Solution
Device not activating or seems inactive.	◦ Insufficient battery charge. ◦ Solar panel is dirty or obstructed. ◦ PIR sensor is blocked or not detecting motion. ◦ Device is turned off.	◦ Ensure the solar panel is clean and exposed to direct sunlight for several hours. ◦ Charge the device via USB for 4-6 hours. ◦ Check that the PIR sensor is clear of obstructions and facing the desired detection area. ◦ Verify the mode dial is set to an active mode (1-5).

Problem	Possible Cause	Solution
Animals are still present in the protected area.	◦ Incorrect mode/frequency selected for the target animal. ◦ Device placement is ineffective. ◦ Strong attractants (food sources) are present. ◦ Animals may be accustomed to the frequency.	◦ Try a different operating mode, especially Mode 5 (cycling frequencies). ◦ Adjust the sensitivity dial. ◦ Reposition the device to a more strategic location, ensuring the detection area covers entry points. ◦ Consider adding more units for larger areas. ◦ Remove all food sources that might attract animals.
Flame light not working at night.	◦ Insufficient battery charge. ◦ Device is in a mode without flame light (not applicable, all modes 1-5 have flame light). ◦ Ambient light is too high (sensor thinks it's still daytime).	◦ Ensure the device is fully charged via solar or USB. ◦ Check for external light sources that might interfere with the dusk sensor.

9. Specifications

Model Number	60300
Brand	ISOTRONIC
Dimensions (L x W x H)	10 x 6 x 48 cm
Weight	450 Grams
Material	Acrylonitrile Butadiene Styrene (ABS)
Color	Green
Power Source	Solar Power (with USB charging option)
Battery Type	AA (included)
Water Resistance Rating	IP44
Effective Range	Approx. 4-8 meters
Number of Units	2 (in this pack)
Country of Origin	China

10. Warranty and Support

For warranty information or technical support, please refer to the product packaging or contact your retailer. You may also visit the official ISOTRONIC website for further assistance and contact details.

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