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Waytronic CT80D

Waytronic CT80D Outdoor Solar Powered Motion Sensor Siren and Strobe Light Alarm User Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Waytronic CT80D Outdoor Solar Powered Motion Sensor Siren and Strobe Light Alarm. This device is designed to enhance security in various outdoor environments by detecting motion and activating a loud siren and bright strobe light. Please read this manual thoroughly before using the product to ensure proper function and safety.

2. PRODUCT OVERVIEW

The Waytronic CT80D is a versatile outdoor alarm system featuring solar power, motion detection, and multiple alert modes. Its robust design ensures reliable performance in various weather conditions.

2.1. Components

- **Solar Charging Board:** Converts sunlight into electrical energy to power the device and charge the internal battery.
- **Treble Siren:** Emits a loud alarm sound upon detection.
- **Detection Window:** Houses the PIR (Passive Infrared) motion sensor.
- **Warning Light:** Integrated LED strobe lights for visual alerts.
- **Hanging Board:** For secure wall mounting.
- **Set Button:** Used to cycle through operating modes.

2.2. Key Features

- **Multiple Working Modes:** Offers 5 distinct modes for various security needs, including 24-hour sound/flash, 24-hour silent flash, night sound/flash, night silent flash, and continuous flashing for hazardous areas.
- **Sensitive Motion Detection:** PIR motion sensor with a 2-12 meter sensing distance and a 120° sensing angle.
- **Loud Siren & Bright Strobe:** Produces a 120dB alarm sound and features 8 bright LEDs for a highly

visible flashing light (1500m visible).

- **Durable & Waterproof:** IP65 waterproof rating and sturdy ABS casing ensure suitability for all weather and outdoor environments.
- **Flexible Power Options:** Powered by solar energy, with an option for USB charging, and includes a built-in lithium-ion battery for extended operation (up to 30 days on a single solar charge).
- **360° Rotation:** Adjustable mounting allows for optimal positioning and detection coverage.



Figure 1: Waytronic CT80D Outdoor Solar Powered Motion Sensor Siren and Strobe Light Alarm.

IP65 Waterproof

Tight protection and treatment to prevent rainwater infiltration.



Figure 2: The alarm unit is designed with an IP65 waterproof rating, ensuring protection against rain and dampness for outdoor use.



Figure 3: The alarm can be powered by its integrated solar panel, via USB, or through its built-in battery, offering flexible power solutions.

3. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance of your solar alarm.

3.1. Choosing a Location

- Select a location that receives direct sunlight for at least 6-8 hours daily to ensure efficient solar charging.
- Position the alarm to cover the desired detection area, considering the 120° sensing angle and 2-12 meter range.
- Avoid placing the alarm near heat sources, reflective surfaces, or areas with dense foliage that could cause false triggers or obstruct the solar panel.

3.2. Mounting the Device

1. Use the provided screws and bolts to securely attach the hanging board to a wall or post.
2. Slide the alarm unit onto the hanging board until it clicks into place.
3. Adjust the alarm's angle using its 360° rotation feature to optimize the solar panel's exposure to

sunlight and the motion sensor's coverage.

360° Rotation

Arbitrary adjustment

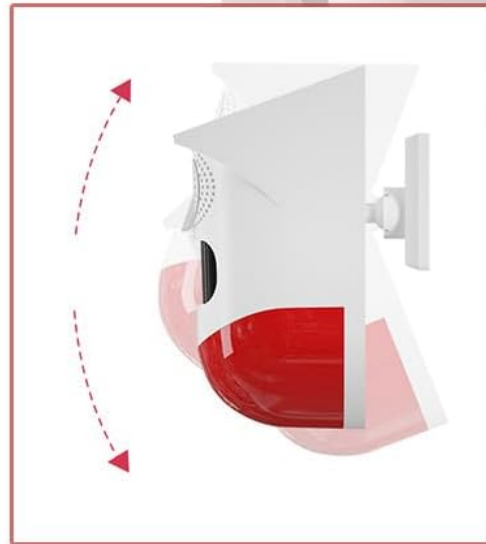
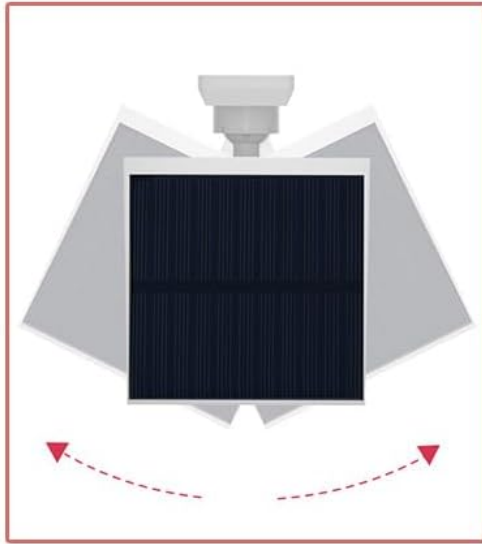
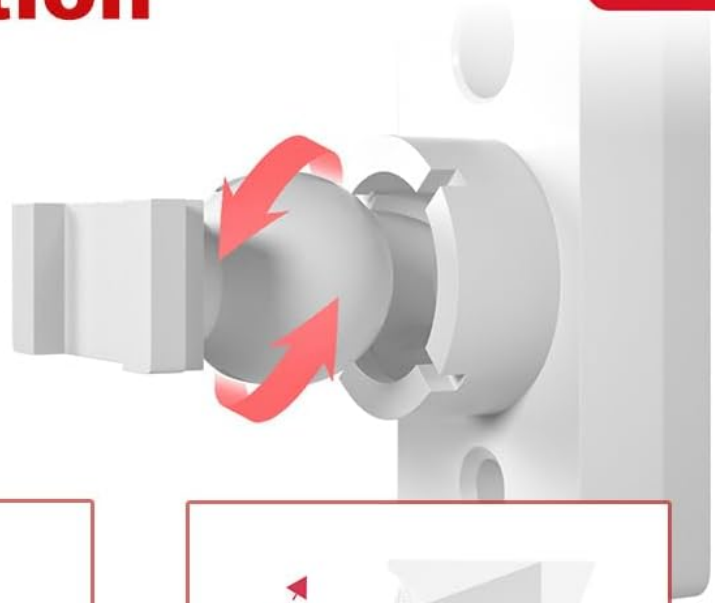


Figure 4: The alarm features 360° rotation for flexible adjustment of the solar panel and sensor direction.

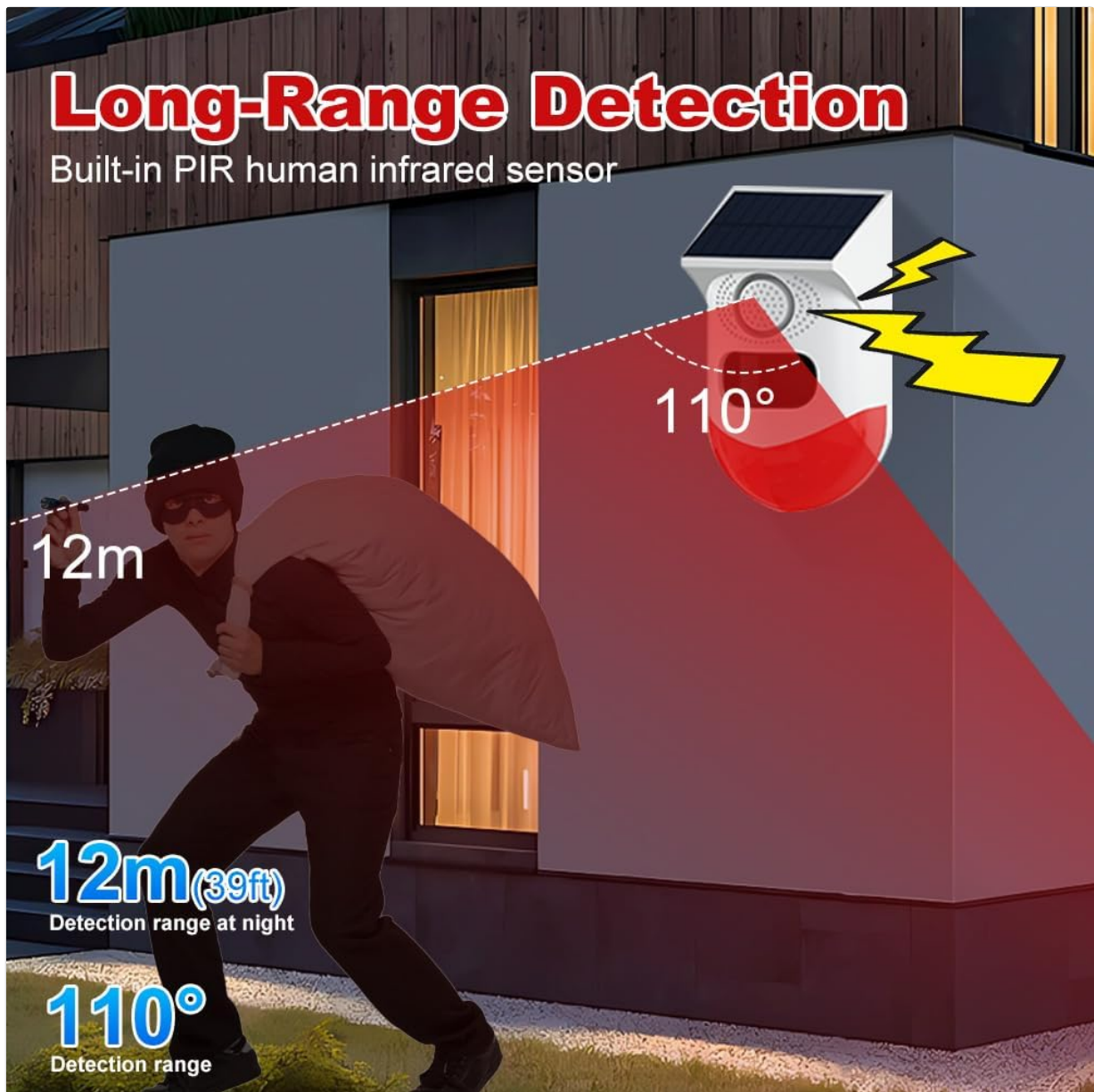


Figure 5: Illustration of the alarm's long-range detection capability, showing a 12-meter detection distance and 110° angle.

4. OPERATING MODES

The Waytronic CT80D offers five distinct operating modes, which can be cycled through using the 'Set Button' located on the back of the device. Each press of the button will change the mode, indicated by a specific number of beeps and flashes.

Your browser does not support the video tag.

Video 1: Demonstrates the appearance, set button operation, and various alarm modes of the Waytronic CT80D alarm.

1. Mode 1: 24-Hour Sound and Flash Alarm

(One beep, one flash)

In this mode, the alarm will trigger with both sound (120dB) and flashing lights whenever motion is detected, regardless of day or night.

2. Mode 2: 24-Hour Silent Flash Alarm

(Two beeps, two flashes)

The alarm will only activate with flashing lights upon motion detection, without emitting any sound, throughout a 24-hour period.

3. Mode 3: Night Sound and Flash Alarm

(Three beeps, three flashes)

This mode activates the sound and flash alarm only during nighttime hours when motion is detected. It remains inactive during the day.

4. Mode 4: Night Silent Flash Alarm

(Four beeps, four flashes)

Similar to Mode 3, but only the flashing lights are activated upon motion detection at night, with no sound. It remains inactive during the day.

5. Mode 5: Dangerous Area Mode (Continuous Flashing)

(Five beeps, five flashes)

In this mode, the warning light will continuously flash, serving as a visual deterrent or indicator for a hazardous area.

6. Power Off

(No sound, warning light stays on for a few seconds then turns off)

Pressing the button after Mode 5 will shut down the device.



Figure 6: The alarm emits a powerful 120dB sound, providing effective auditory deterrence.

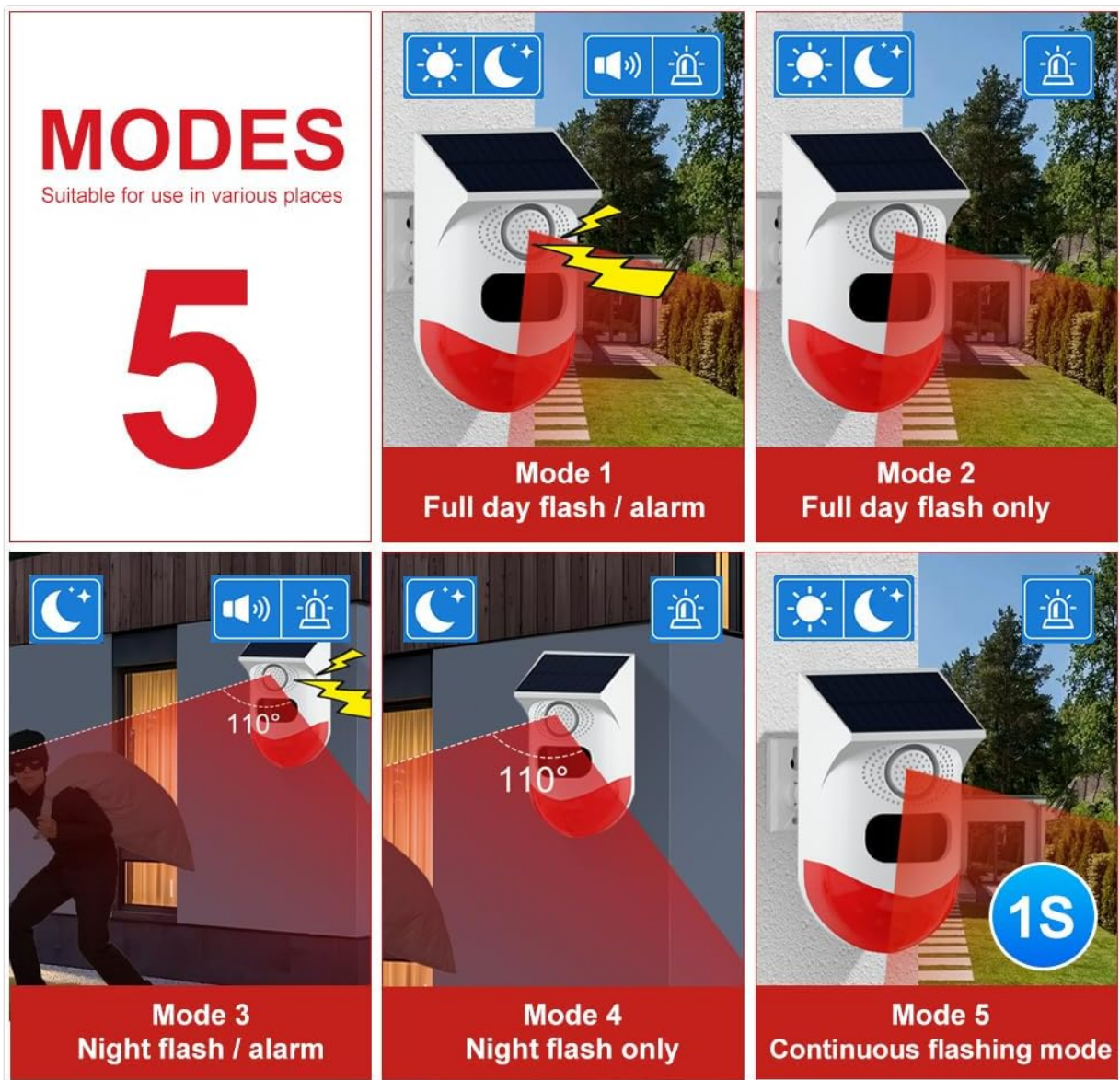


Figure 7: Visual representation of the five distinct operating modes available for the alarm, suitable for various applications.

5. MAINTENANCE

To ensure the longevity and optimal performance of your Waytronic CT80D alarm, regular maintenance is recommended.

- **Clean Solar Panel:** Periodically wipe the solar panel with a soft, damp cloth to remove dust, dirt, or debris that may hinder charging efficiency.
- **Clear Detection Window:** Ensure the motion sensor's detection window is clean and free from obstructions like spiderwebs, leaves, or snow.
- **Check Mounting:** Verify that the alarm remains securely mounted and that its angle has not shifted due to weather or external factors.
- **Battery Health:** While designed for long-lasting performance, if the device consistently fails to hold a charge, consider checking the battery or contacting support.

6. TROUBLESHOOTING

If you encounter issues with your Waytronic CT80D alarm, refer to the following common troubleshooting steps:

- **Alarm Not Charging:**

Ensure the solar panel is exposed to direct sunlight for at least 6-8 hours daily. Clean the solar panel to remove any obstructions. If issues persist, try charging via USB.

- **Motion Not Detected:**

Verify the alarm is in an active detection mode (Mode 1, 2, 3, or 4). Check that the detection window is clear and not obstructed. Adjust the mounting angle to ensure the sensor covers the desired area.

- **False Alarms:**

Review the installation location for potential sources of false triggers, such as moving branches, small animals, or strong winds. Adjust the alarm's angle or relocate it if necessary.

- **No Sound/Light Activation:**

Confirm the device is powered on and not in 'Power Off' mode. If in a silent mode (Mode 2 or 4), only the light will flash. Ensure the battery has sufficient charge.

If these steps do not resolve the issue, please contact Waytronic customer support for further assistance.

7. SPECIFICATIONS

Detailed technical specifications for the Waytronic CT80D Outdoor Solar Powered Motion Sensor Siren and Strobe Light Alarm.

Product Parameter	
Product Name	Outdoor solar infrared alarm
Standby Current	≤500μA
Solar Panels	5V x 0.6W Polysilicon
Charging Method	Solar charging
Alarm Sound	≤120dB
Charging Time	6 - 8 hours
Detection Angle	110°
Detection Distance	9-12 meters (affected by the environment)
Battery Parameters	3.7V x 600mAH full capacity polymer lithium battery
Operating Mode	1.24-hour sound and flash alarming 2.24-hour silent flash alarming 3.Sound and flash alarming at night 4.Silent flash alarming at night 5.Hazard area




Figure 8: Overview of the product's key parameters and dimensions.

Feature	Specification
Product Name	Outdoor solar infrared alarm
Model Number	CT80D
Brand	Waytronic
Voltage	12 Volts (DC)

Feature	Specification
Noise Level	120 Decibels
Mounting Type	Wall Mount
Maximum Range	12 Meters
Sensor Technology	Motion Sensor (PIR)
UPC	706316598438
Item Weight	8.1 ounces
Package Dimensions	7.44 x 4.88 x 2.99 inches
Batteries	1 Lithium Ion battery required (built-in)
Material	Plastic
Wattage	6 watts
Type of Bulb	LED
Power Source	Solar Powered
Solar Panels	5V x 0.6W Polysilicon
Charging Method	Solar charging / USB
Charging Time	6 - 8 hours (solar)
Battery Parameters	3.7V x 600mAh polymer lithium battery
Detection Angle	110° - 120°
Detection Distance	9-12 meters (affected by environment)
Standby Current	≤500μA

8. WARRANTY AND SUPPORT

The Waytronic CT80D Outdoor Solar Powered Motion Sensor Siren and Strobe Light Alarm comes with a **1-year warranty** from the date of purchase, covering manufacturing defects and malfunctions under normal use.

For warranty claims, technical support, or any inquiries regarding your product, please contact Waytronic customer service through the retailer where the product was purchased or visit the official Waytronic website for contact information.

