DEWENWILS HMSR11S

DEWENWILS HMSR11S Wireless Motion Sensor Outlet Instruction Manual

1. Introduction

Thank you for choosing the DEWENWILS HMSR11S Wireless Motion Sensor Outlet. This device is designed to provide automated control of lighting and small appliances based on motion detection and ambient light conditions. It features a detachable motion sensor and a plug-in receiver, offering flexible installation for both indoor and outdoor environments. Please read this manual thoroughly before installation and operation to ensure proper use and safety.

Image 1.1: The DEWENWILS HMSR11S Wireless Motion Sensor Outlet, showing the motion sensor and the plug-in receiver.

2. Product Overview

2.1 Components

- **Motion Sensor (Transmitter):** Battery-powered unit with adjustable sensing angle, detection range, and operating modes.
- **Plug-in Receiver (Outlet):** Connects to a standard electrical outlet and controls the connected appliance based on signals from the motion sensor.
- **Mounting Bracket:** For securing the motion sensor to a desired surface.

2.2 Key Features

- **Wireless Operation:** Strong RF signal up to 100ft between sensor and receiver.
- **Wide-Angle Detection:** 240° sensing angle with up to 50ft detection range.
- **Adjustable Sensor:** 160° vertical and 180° horizontal adjustment for precise coverage.
- **Weatherproof Design:** IP65 rated sensor and IP44 rated outlet for outdoor use.
- **Multiple Operating Modes:** PIR, NTM, D2D, and RND modes.
- **Adjustable Time Delay:** Auto-off delay from 10 seconds to 30 minutes.

- **Easy Installation:** No wiring required for the sensor.

Image 2.1: Detailed view of the motion sensor's components and control knobs.

3. Safety Information

Please observe the following safety precautions:

- Do not exceed the maximum load rating of 15A/1875W for the receiver.
- Ensure the receiver is plugged into a properly grounded outlet.
- Keep the receiver away from water sources if used outdoors, despite its IP44 rating, to prevent electrical hazards.
- Do not attempt to disassemble or modify the device.
- Replace batteries in the motion sensor with the correct type (3 AAA batteries, not included) and dispose of old batteries responsibly.
- Avoid pointing the motion sensor directly at heat sources, reflective surfaces, or areas with constant air movement (e.g., vents) to prevent false triggers.

4. Setup

4.1 Battery Installation (Motion Sensor)

The motion sensor requires 3 AAA batteries (not included) for operation.

1. Rotate the battery cover at the bottom of the sensor to the "unlock" position and remove it.
2. Take out the black battery holder.
3. Insert 3 AAA batteries into the holder, observing the correct polarity (+/-).
4. Insert the loaded battery holder back into the battery box.
5. Insert the battery cover and rotate it to the "lock" position to secure it.

Image 4.1: Visual guide for battery installation in the motion sensor.

4.2 Mounting the Motion Sensor

The motion sensor can be surface-mounted using the included bracket.

1. Use the included screws to secure the mounting bracket to the desired location.
2. Install the motion sensor onto the fixed bracket.
3. Adjust the sensor's angle vertically (160°) and horizontally (180°) to cover the desired detection area.

Image 4.2: Visual guide for mounting the motion sensor and adjusting its angle.

4.3 Pairing the Sensor and Receiver

The sensor and receiver are typically pre-paired. If re-pairing is needed:

1. Plug the receiver into a power outlet.
2. Press and hold the pairing button on the receiver until its indicator light flashes.
3. Trigger the motion sensor by waving your hand in front of it. The receiver's indicator light should stop flashing, indicating successful pairing.

5. Operating Instructions

The motion sensor features three adjustable knobs: Function, Delay, and Sensitivity.

Image 5.1: Overview of adjustable sensing range, modes, and motion status delay settings.

5.1 Function Knob: Selecting Operating Modes

Rotate the Function knob to select one of the four operating modes:

- **PIR Mode (Motion Detection):** The sensor detects motion both day and night, activating the connected device.
- **NTM Mode (Night Time Motion):** The sensor detects motion only when the ambient light reaches a low activation brightness (dusk/night), activating the connected device.
- **D2D Mode (Dusk to Dawn):** The connected device turns on at dusk and stays on until dawn, regardless of motion.
- **RND Mode (Random):** The connected device turns on and off randomly during nighttime hours, simulating occupancy for security purposes.

Image 5.2: Illustration of the four operating modes: PIR, NTM, DTD, and RND.

5.2 Delay Knob: Adjusting Auto-Off Time

In PIR and NTM modes, the Delay knob adjusts how long the connected device remains on after motion is last detected. The adjustable range is from 10 seconds to 30 minutes.

- Rotate clockwise for longer delay.
- Rotate counter-clockwise for shorter delay.

5.3 Sensitivity Knob: Adjusting Detection Range

The Sensitivity knob adjusts the motion detection range from approximately 10 feet to 50 feet.

- Rotate clockwise for maximum detection range (up to 50ft).
- Rotate counter-clockwise for minimum detection range (down to 10ft).

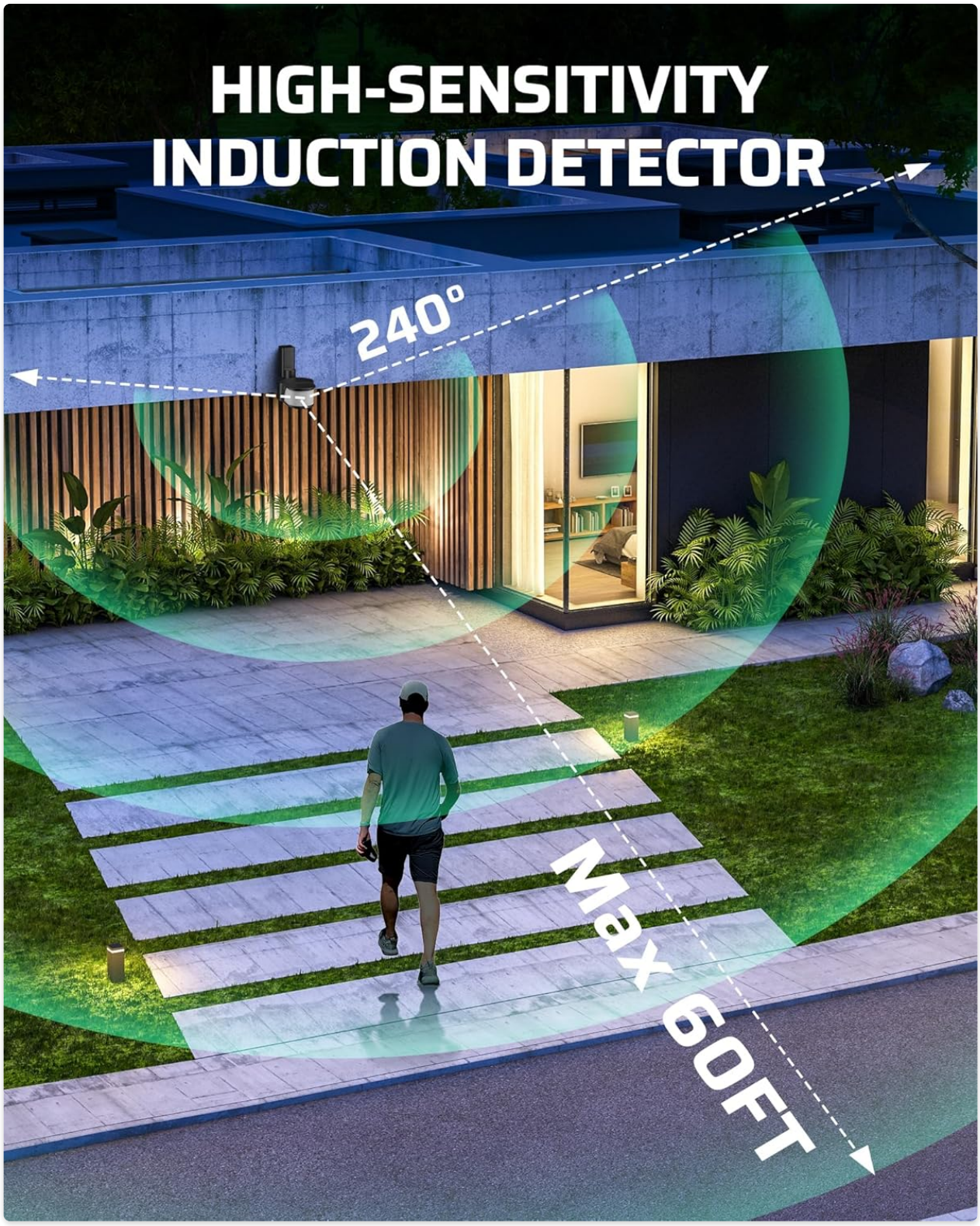

Image 5.3: Visual representation of the motion sensor's detection range and angle.

6. Maintenance

- **Cleaning:** Wipe the sensor and receiver with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Battery Replacement:** Replace the 3 AAA batteries in the motion sensor when the detection range or responsiveness decreases. Follow the battery installation steps in Section 4.1.
- **Inspection:** Periodically check the device for any signs of damage, especially if used outdoors.

7. Troubleshooting

Problem	Possible Cause	Solution
Device does not turn on with motion.	• Low or dead batteries in sensor. • Sensor out of range of receiver. • Incorrect mode selected (e.g., D2D or RND instead of PIR/NTM). • Sensitivity set too low. • Obstruction in detection path.	• Replace sensor batteries. • Move sensor closer to receiver (within 100ft). • Select PIR or NTM mode. • Increase sensitivity. • Clear obstructions and adjust sensor angle.
Device turns on too frequently or falsely.	• Sensitivity set too high. • Sensor pointed at heat sources, reflective surfaces, or moving objects (e.g., trees, traffic). • Interference from other RF devices.	• Decrease sensitivity. • Adjust sensor angle or relocate to avoid false triggers. • Move sensor/receiver away from other wireless devices.
Device does not turn off.	• Constant motion in detection area. • Delay time set too long. • Sensor malfunction.	• Ensure no continuous motion is detected. • Adjust delay knob to a shorter time. • Try re-pairing the sensor and receiver. If issue persists, contact support.
Short detection range.	• Sensitivity set too low. • Low batteries. • Environmental factors (temperature, humidity).	• Increase sensitivity. • Replace batteries. • Consider environmental conditions; performance may vary.

8. Specifications

Feature	Specification
Model Number	HMSR11S
Brand	DEWENWILS
Power Source (Sensor)	3 x AAA Batteries (not included)
Power Source (Receiver)	AC 120V, 60Hz
Maximum Load	15A / 1875W
Wireless Range	Up to 100 feet (line of sight)
Detection Range	Adjustable 10-50 feet
Sensing Angle	240° (horizontal), 160° (vertical), 180° (horizontal adjustment)
Time Delay Adjustment	10 seconds to 30 minutes
Operating Modes	PIR, NTM, D2D, RND
Waterproof Rating (Sensor)	IP65
Waterproof Rating (Receiver)	IP44
Operating Temperature	Up to 80°C (176°F)
Dimensions	4.53 x 3.54 x 6.1 inches
Weight	12.3 ounces
Certifications	FCC

9. Warranty and Support

DEWENWILS products are designed for reliability and performance. For warranty information or technical support, please refer to the contact details provided with your product packaging or visit the official DEWENWILS website. Please have your model number (HMSR11S) available when contacting support.