

## YARDCARE M800Plus

# YARDCARE M800Plus Robotic Lawn Mower User Manual

Model: M800Plus

## 1. INTRODUCTION

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This manual provides essential information for the safe and efficient operation of your YARDCARE M800Plus Cordless Robotic Lawn Mower. Please read this manual thoroughly before using the product to ensure proper setup, usage, and maintenance.

## 2. SAFETY INFORMATION

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The YARDCARE M800Plus robotic lawn mower is designed with multiple safety features to protect users, pets, and property.

- **Tilt Sensor:** The mower will halt operation if it is lifted or tilted beyond a safe angle.
- **Emergency Stop Button:** A prominent emergency stop button is located on the mower for immediate shutdown in critical situations.
- **Collision Sensor:** Integrated sensors detect obstacles, allowing the mower to avoid collisions and maintain a safe distance from objects, pets, and potential hazards.
- **AI Obstacle Avoidance:** Equipped with a 135° wide-angle camera and AI-powered recognition, the mower intelligently detects over 150 common garden obstacles for precise, real-time avoidance.

**Important Note:** If grass height exceeds 2.6 inches (approximately 6.6 cm), the mower's AI system may interpret it as an obstacle. For optimal performance and to prevent false obstacle detection, trim tall grass to a lower height before the first robotic mowing session.

## 3. SETUP AND INSTALLATION

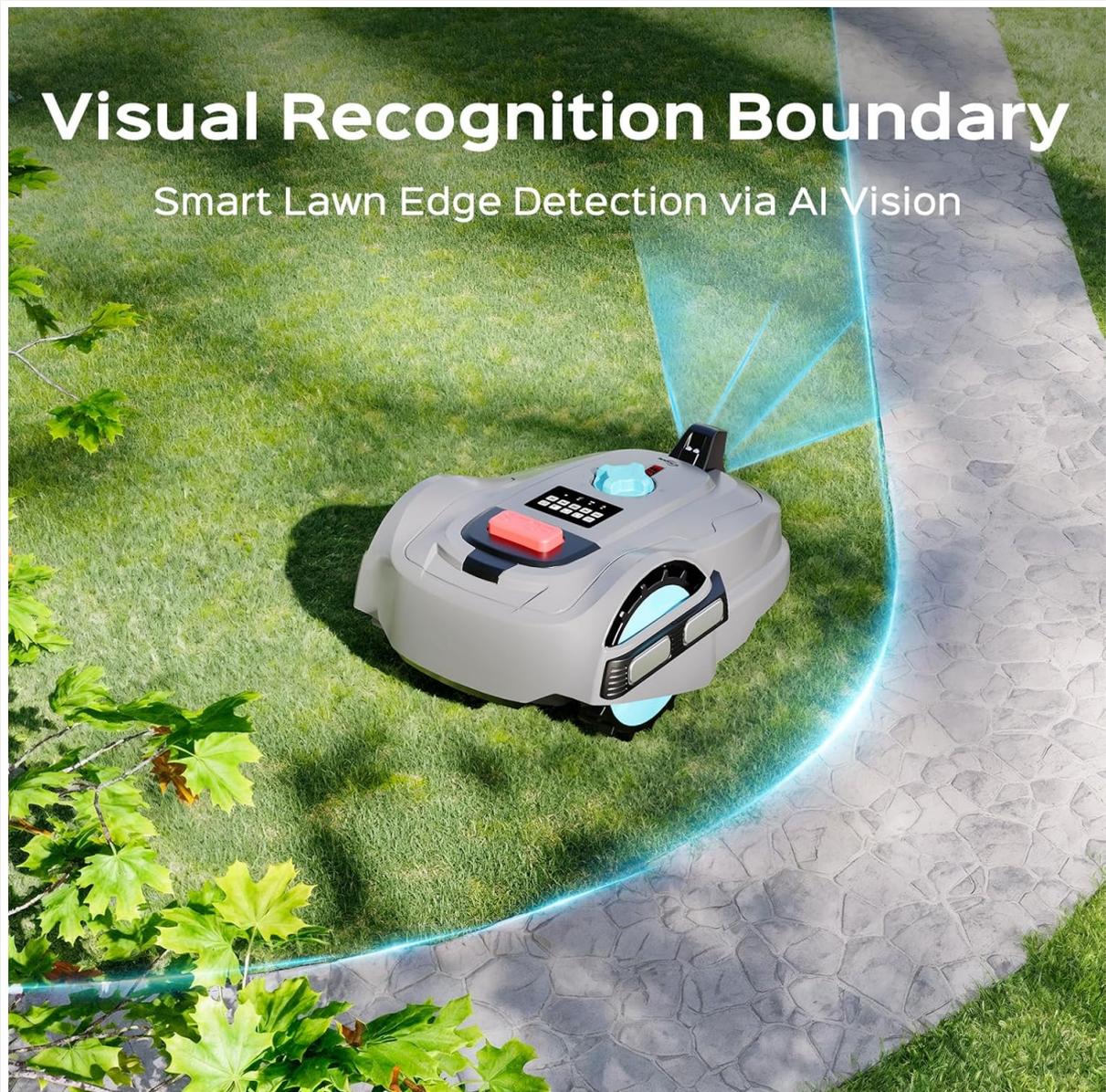
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The YARDCARE M800Plus features AI vision-assisted boundary recognition, eliminating the need for complex boundary cables.

1. **Prepare Your Lawn:** Ensure your lawn has clear boundaries such as fences, cement paths, or distinct edges. The AI vision system relies on these visual cues.
2. **Initial Grass Height:** For the first use, or if the grass is very tall, manually mow the lawn to a height

below 2.6 inches (6.6 cm) to ensure the robotic mower can operate effectively without misidentifying tall grass as obstacles.

3. **Charging Station Placement:** Place the charging station in an accessible area within your lawn where the mower can easily locate it. The mower uses its vision system to identify and return to the charging pile automatically.
4. **Power Connection:** Connect the charging station to a suitable power outlet.
5. **Initial Charge:** Allow the mower to fully charge before its first operation.



**Figure 3.1:** The YARDCARE M800Plus uses visual recognition to detect lawn boundaries, eliminating the need for physical boundary wires.

# Suitable for Obvious Boundaries

Such as fences, cement roads, etc



**Figure 3.2:** The mower is suitable for lawns with obvious boundaries like fences or cement roads. It may struggle with grass over 2.6 inches or unclear borders.

## 4. OPERATING INSTRUCTIONS

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Your YARDCARE M800Plus robotic lawn mower offers intelligent and automated lawn care.

### 4.1 Smart App Control

Download the YARDCARE application to your smartphone to manage your mower. The app allows you to:

- Set custom mowing schedules and plans.
- Switch between different mowing modes.
- Receive error alerts and status notifications.
- Perform Over-The-Air (OTA) updates for improved functionality.

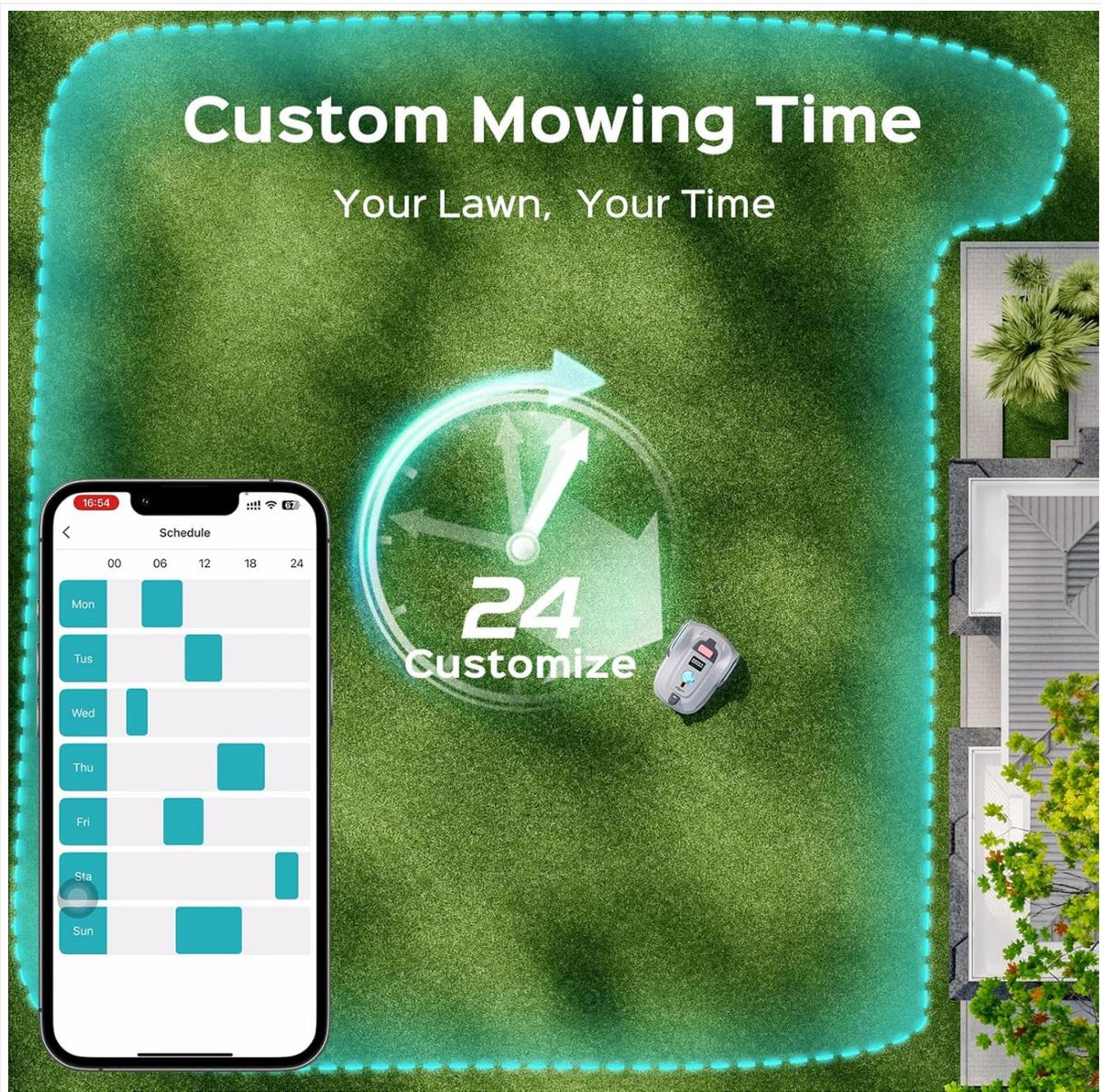
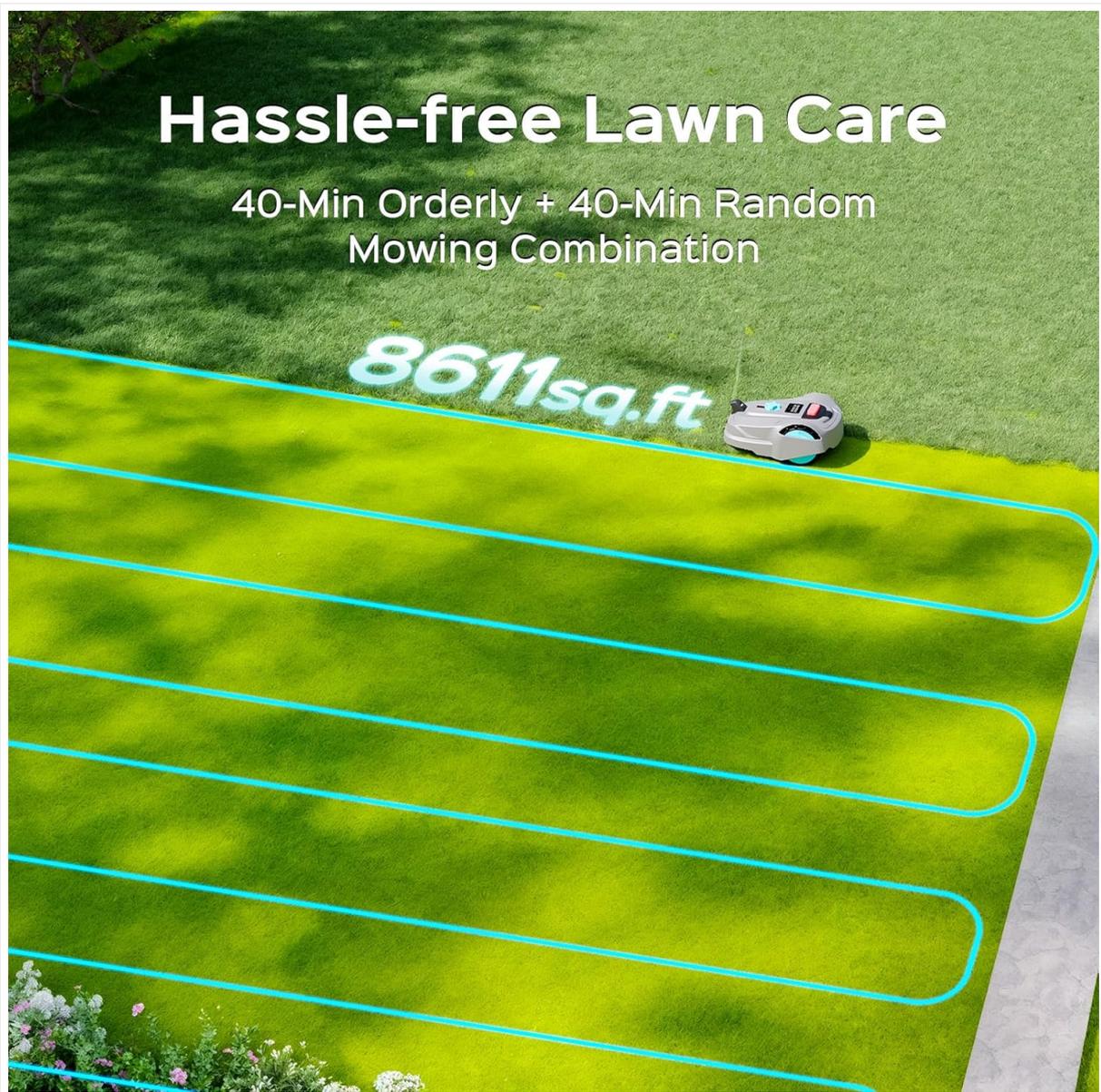


Figure 4.1: The YARDCARE app allows users to customize mowing schedules and control the mower remotely.

## 4.2 Mowing Modes

The mower utilizes a combination of mowing patterns for comprehensive lawn coverage:

- **Partial Orderly Mowing:** The mower performs 40 minutes of neat, linear row mowing.
- **Random Mowing:** Following orderly mowing, it switches to 40 minutes of random mowing to cover any missed areas or gaps.
- After completing a cycle, the mower returns to its charging station. Upon recharging, it resumes mowing in the opposite direction to ensure even coverage.



**Figure 4.2:** The mower employs a combination of orderly and random mowing patterns for efficient lawn care.

### **4.3 Automatic Charging**

The mower is equipped with an automatic charging system:

- It runs for approximately 100 minutes on a full charge.
- When the battery level drops below 20%, the mower automatically identifies its charging station using its vision system and returns to recharge.
- Mowing resumes once the battery reaches 90% charge.
- The mower will also return to its station automatically on rainy days.

### **4.4 Obstacle Avoidance**

The integrated 135° wide-angle camera and AI recognition system allow the mower to detect and avoid over 150 types of common garden obstacles, including pets, trees, stones, and toys. This ensures continuous and safe operation.



Figure 4.3: The mower's AI vision system identifies and avoids various garden obstacles, ensuring safe operation.

#### 4.5 Cutting Height Adjustment

The cutting height of the YARDCARE M800Plus can be manually adjusted to achieve your desired lawn precision. Refer to the mower's physical controls for adjustment.



Figure 4.4: The cutting height can be manually adjusted from 0.8 inches to 2.4 inches for customized lawn care.

#### 4.6 Slope Climbing and Spot Mowing

- **Slope Climbing:** The mower is capable of operating on slightly sloped lawns, handling inclines up to 36.4% (20°).
- **Spot Spiral Mowing:** For areas with denser grass, the mower can perform a spot spiral mowing pattern to ensure a cleaner and more even cut.

# Slope Climbing Ability

Works great on slightly sloped lawns



**Figure 4.5:** The mower demonstrates its ability to climb slopes up to 36.4% (20 degrees).

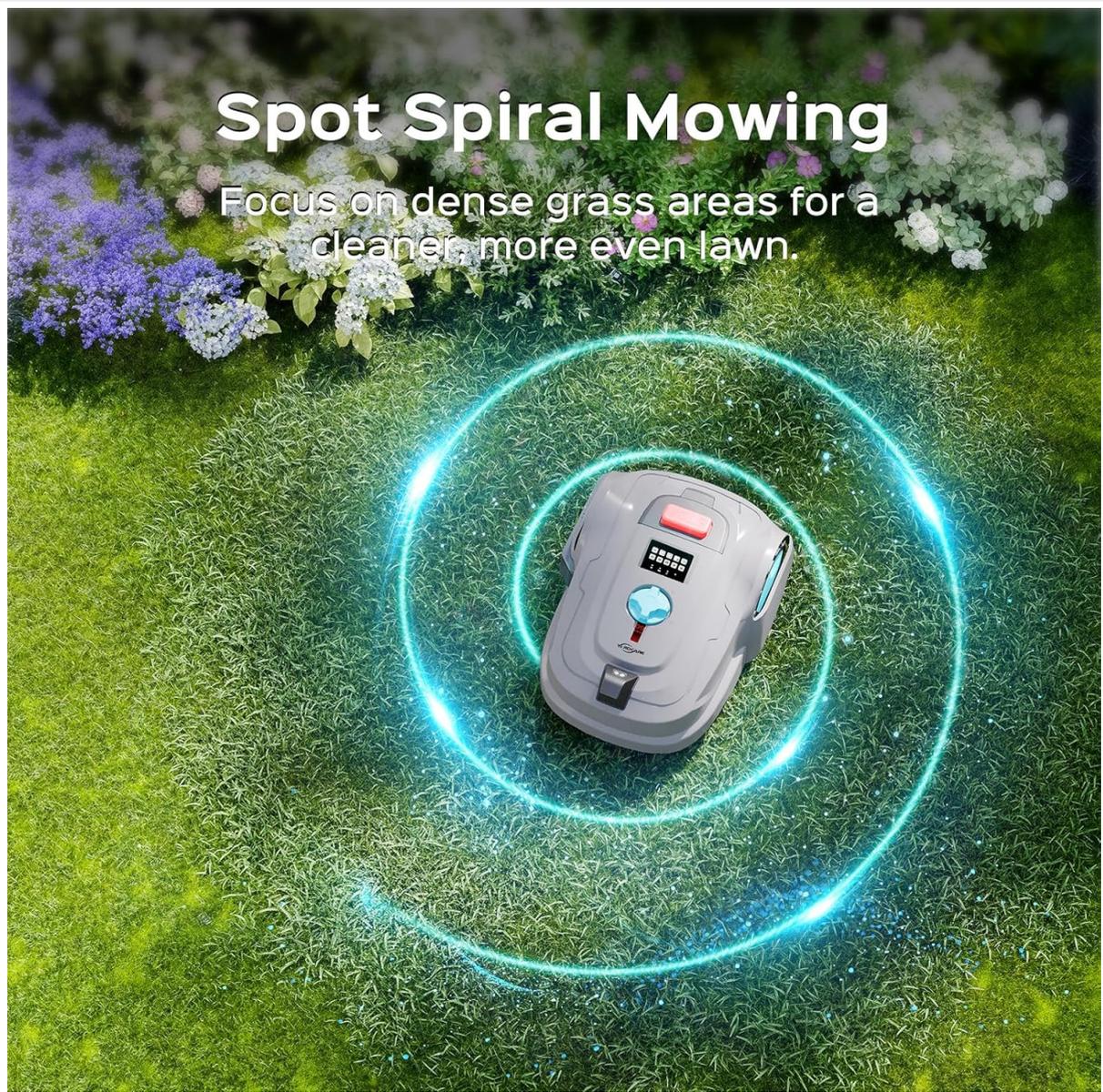


Figure 4.6: Spot spiral mowing focuses on areas with dense grass for a more thorough cut.

## 5. MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your YARDCARE M800Plus robotic lawn mower.

- **Cleaning:** Periodically clean the mower's chassis, wheels, and cutting deck to remove grass clippings, dirt, and debris. Use a soft brush or cloth. Avoid using high-pressure water jets directly on the mower.
- **Blade Inspection:** Regularly inspect the cutting blades for wear, damage, or dullness. Replace blades as needed to maintain cutting efficiency. Always wear protective gloves when handling blades.
- **Sensor Cleaning:** Ensure the visual sensors and camera lens are clean and free from obstructions to maintain accurate boundary recognition and obstacle avoidance.
- **Charging Station:** Keep the charging contacts on both the mower and the charging station clean. Ensure the area around the charging station is clear of debris.
- **Storage:** During off-season or extended periods of non-use, store the mower and charging station in a dry, protected area. Ensure the battery is fully charged before storage.

## 6. TROUBLESHOOTING

If you encounter issues with your YARDCARE M800Plus, refer to the following common troubleshooting steps.

| Problem  | Possible Cause   | Solution   |
|--|--|--|
| Mower not returning to charging base.                | Obstruction near base, base not properly powered, or mower's vision system obstructed. | <ul style="list-style-type: none"><li>• Ensure the area around the charging base is clear of obstacles for at least 2 meters in front.</li><li>• Verify the charging base is connected to power and its indicator light is on.</li><li>• Clean the mower's camera lens and charging contacts.</li><li>• Manually place the mower near the base, facing it, to initiate charging.</li></ul> |
| App connectivity issues or app locks up.             | Weak Wi-Fi signal, app glitch, or mower communication error.                           | <ul style="list-style-type: none"><li>• Ensure your Wi-Fi signal is strong in the mowing area.</li><li>• Restart the YARDCARE app on your smartphone.</li><li>• Restart the mower (power off and on).</li><li>• If issues persist, try removing and re-adding the mower device within the app settings.</li></ul>  |
| Mower frequently stops or changes path unexpectedly. | Tall grass, unrecognized obstacles, or sensor obstruction.                             | <ul style="list-style-type: none"><li>• Ensure grass height is below 2.6 inches (6.6 cm).</li><li>• Clear any small, unusual objects from the lawn.</li><li>• Clean the mower's camera and sensors.</li><li>• Check for any loose parts or debris affecting movement.</li></ul>  |

For further assistance, please contact YARDCARE customer support.

## 7. SPECIFICATIONS

| Feature      | Detail          |
|--------------|-----------------|
| Brand        | YARDCARE        |
| Model Number | M800plus-WW     |
| Power Source | Battery Powered |
| Color        | Light Gray      |

| Feature                           | Detail                         |
|-----------------------------------|--------------------------------|
| Item Weight                       | 9.34 kg (9 kg 340 g)           |
| Cutting Width                     | 7.08 Inches (approx. 18 cm)    |
| Operation Mode                    | Automatic                      |
| Product Dimensions (D x W x H)    | 32D x 52W x 63H Centimeters    |
| Assembly Required                 | No                             |
| Maximum Adjustable Cutting Height | 2.36 Inches (approx. 6 cm)     |
| Minimum Adjustable Cutting Height | 0.79 Inches (approx. 2 cm)     |
| Battery Run Time                  | Approx. 100 minutes per charge |
| Slope Capability                  | Up to 36.4% (20°)              |

## 8. WARRANTY AND SUPPORT

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For information regarding warranty coverage, technical support, or spare parts, please refer to the warranty card included with your product or visit the official YARDCARE website. You may also contact YARDCARE customer service directly for assistance.

**Contact Information:** Please refer to your product packaging or the YARDCARE official website for the most up-to-date contact details.