

## ANTHBOT Pion900

# ANTHBOT Robot Lawn Mower User Manual

Model: Pion900

## 1. INTRODUCTION

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The ANTHBOT Robot Lawn Mower (Model Pion900) is designed to provide efficient and automated lawn care. This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your robotic lawn mower to ensure optimal performance and a well-maintained lawn.

Key features include CABLE-TOF global positioning for precise mowing, automatic boundary wire break detection, adjustable blade deck, and app-controlled smart features.



Image: The ANTHBOT Robot Lawn Mower, showcasing its sleek design and the accompanying smartphone application for control.

## 2. PACKAGE CONTENTS

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Before beginning installation, please verify that all components are present in the package:

- ANTHBOT Robot Lawn Mower
- Charging Station
- Power Adapter
- Boundary Wire (Max 180m)
- Wire Pegs (240 pcs)
- Ruler
- Waterproof Wire Connectors
- Replacement Blades and Screws
- Hex Wrench
- User Manual



# Exclusive Cable-ToF Algorithm Technology

Mowing The Grass Line By Line Automatically



Precise positioning **100%**



Mowing Efficiency Boost **300%**

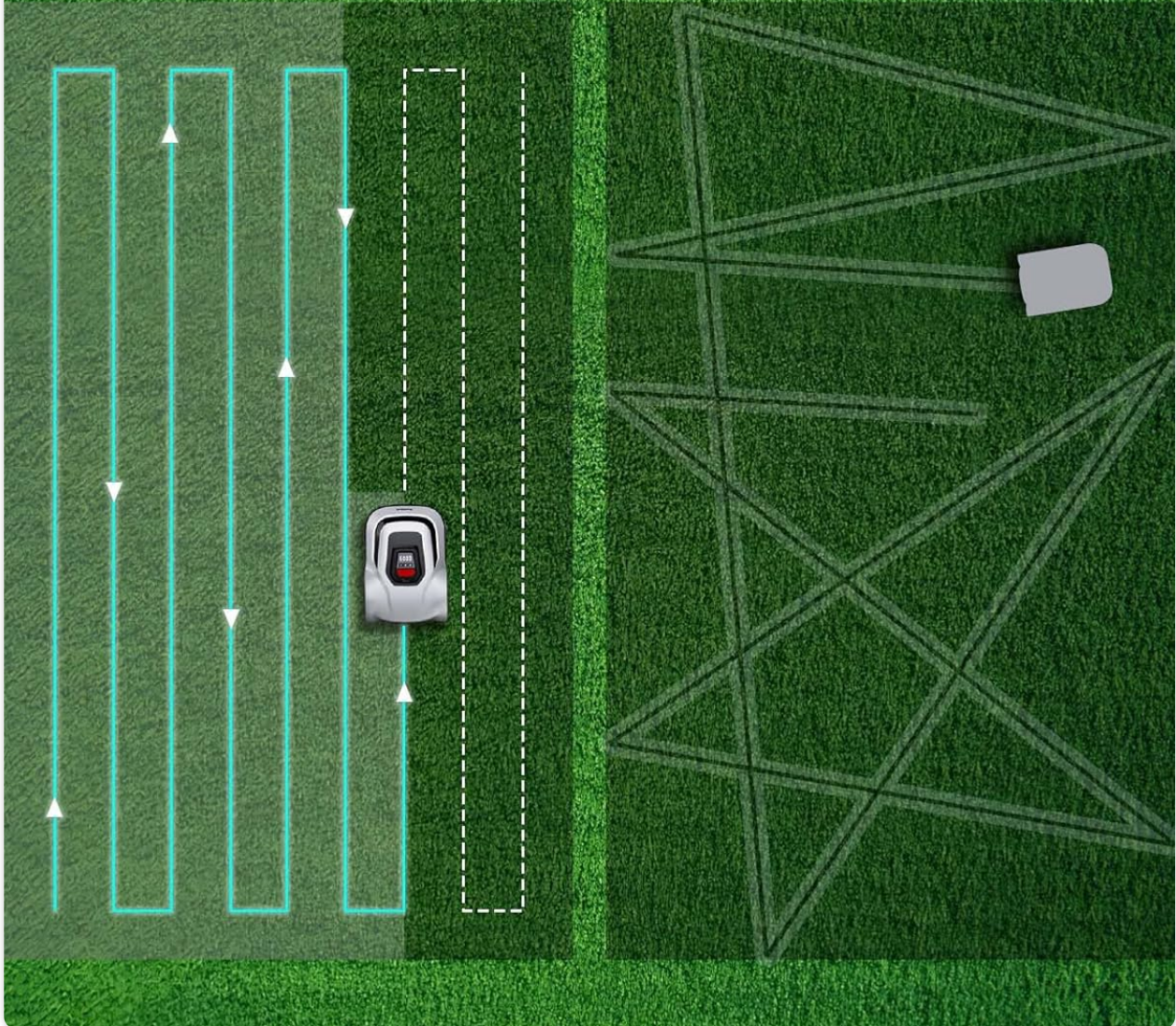


Image: A comprehensive view of all items included in the ANTHBOT Robot Lawn Mower package, laid out for inspection.

## 3. SETUP AND INSTALLATION

Proper setup of the boundary wire and charging station is crucial for the optimal performance of your ANTHBOT Robot Lawn Mower.

### 3.1. Charging Station Placement



Select a flat, soft grass area for the charging station. Ensure good network coverage and no obstacles within 3 meters. The station should be near a power supply and allow for a ground nail to be fully driven. Reserve at least 1.5m/5ft of space before and after the charging station within the work area of the boundary wire.

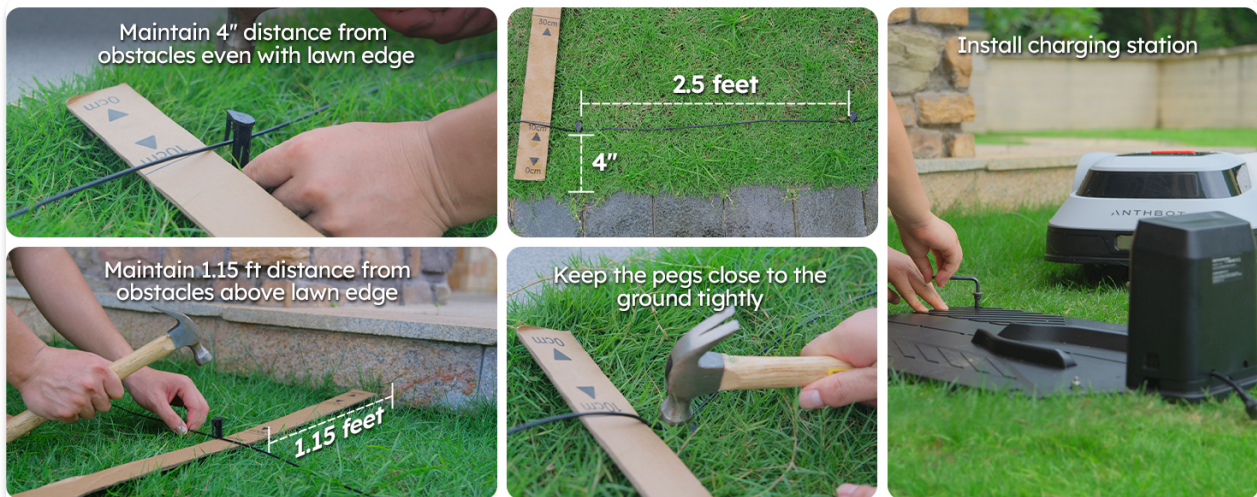


Image: Illustration detailing the recommended placement for the charging station, emphasizing clear space requirements.

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Video: ANTHBOT Robot Lawn Mower Automatic Remote. This video demonstrates the robotic lawn mower in action, highlighting its autonomous operation and remote control capabilities.

### 3.2. Boundary Wire Installation

The boundary wire defines the mowing area. It can be laid on the surface and secured with pegs or buried. Ensure the wire is tight and close to the ground. Maintain a distance of 35 cm (1.15 ft) from any raised boundary obstacles like walls or garden beds. For areas separated by a path, wire the entire area without going around the path.

- Use wire pegs every 75cm (2.5 ft). Increase pegs for curved sections.
- Maintain 20cm (8 inches) distance from lawn edges for obstacles like rocks.
- For pools, maintain at least 75cm (2.5 ft) distance from the edge.

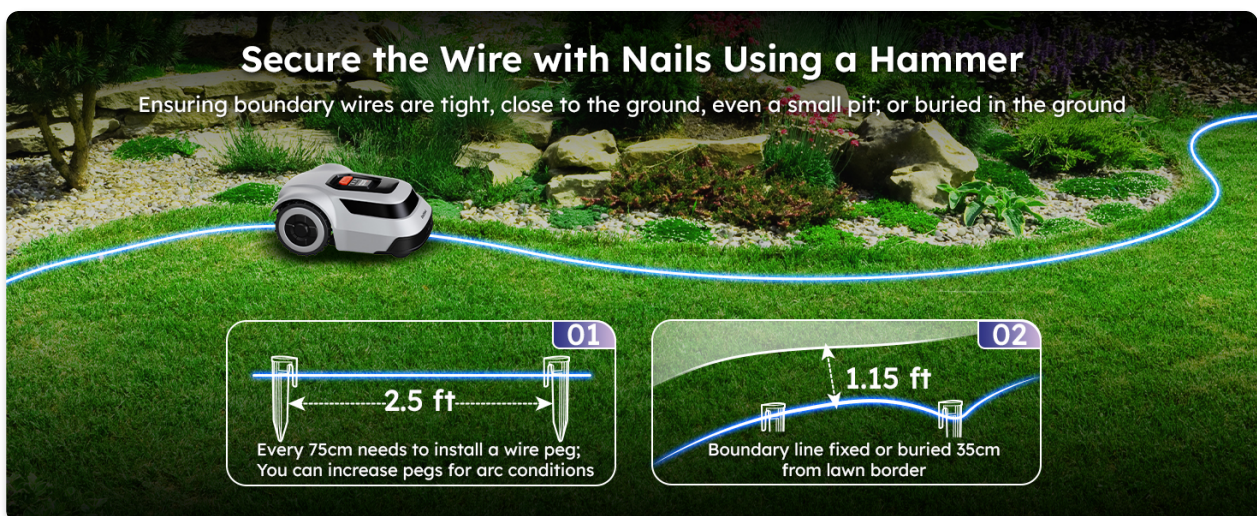


Image: A detailed diagram showing how to lay the boundary wire around a typical house and garden, including distances from various obstacles.



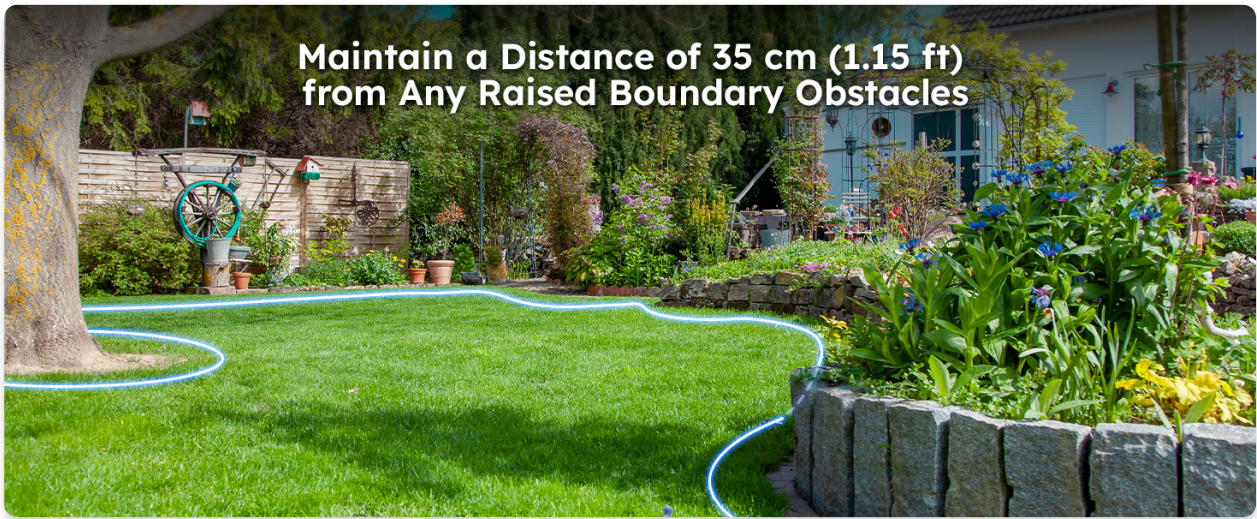


Image: Step-by-step visual guide on how to secure the boundary wire using pegs and maintain appropriate distances from obstacles for effective mowing.

### 3.3. Creating No-Go Zones

To protect specific areas like flower beds or trees, create "no-go zones" by routing the boundary wire around them. Maintain a distance of 35cm (14 inches) from the object, and ensure the wire returns to the main boundary line with a 20cm (8 inches) gap.

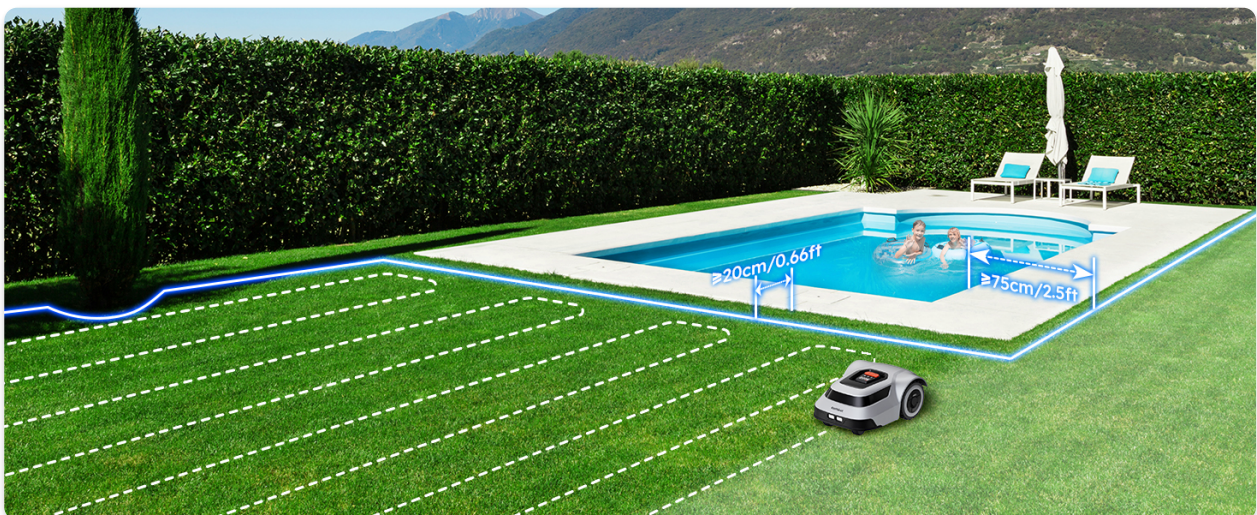


Image: A visual guide on how to establish no-go zones around obstacles like trees using the boundary wire, ensuring the mower avoids these areas.

## 4. OPERATION

The ANTHBOT Robot Lawn Mower is designed for intelligent and efficient operation.

### 4.1. Initial Mapping and Mowing

After boundary wire installation, the mower will perform an initial mapping of the area. It utilizes CABLE-TOF global positioning technology for precise positioning and intelligent route planning, resulting in a 300% increase in mowing efficiency compared to random mowing patterns.

# HOW IT WORKS?

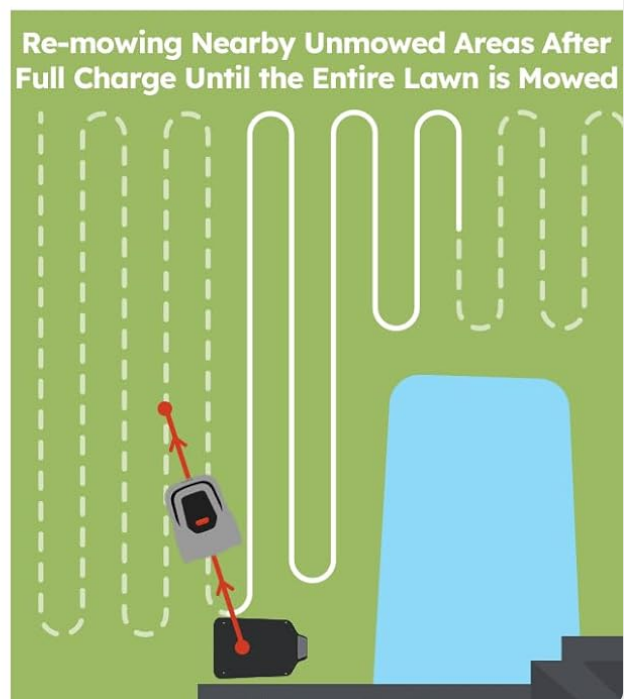
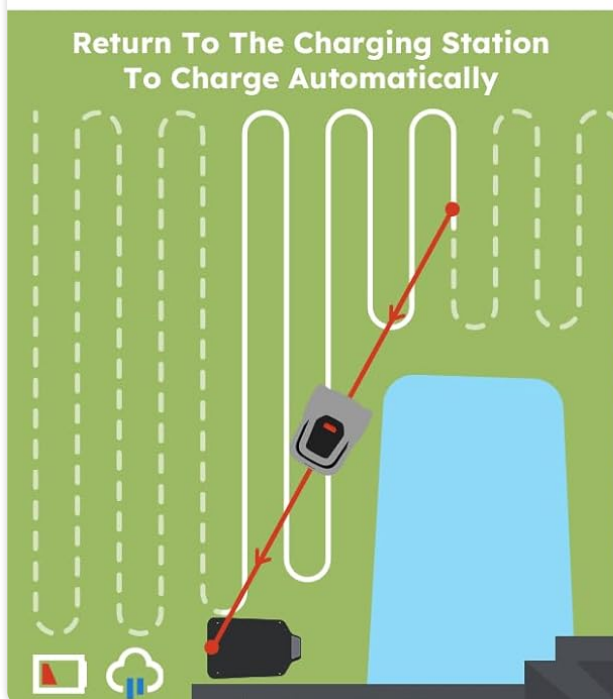
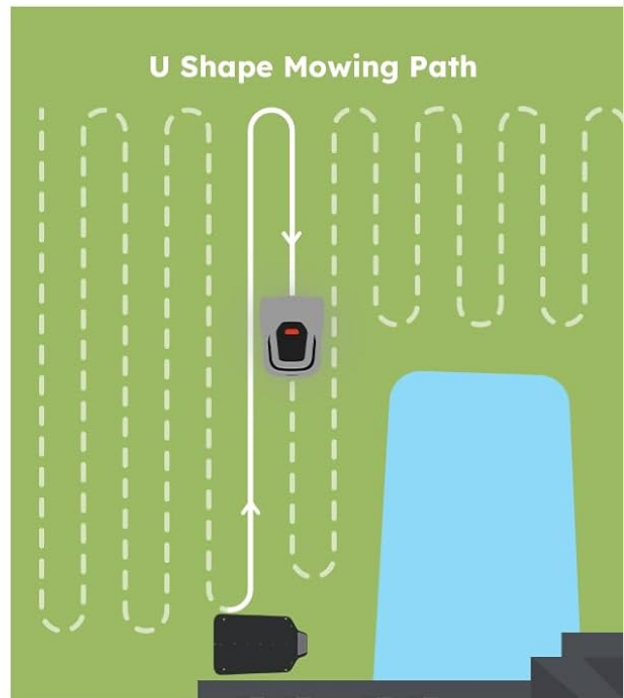
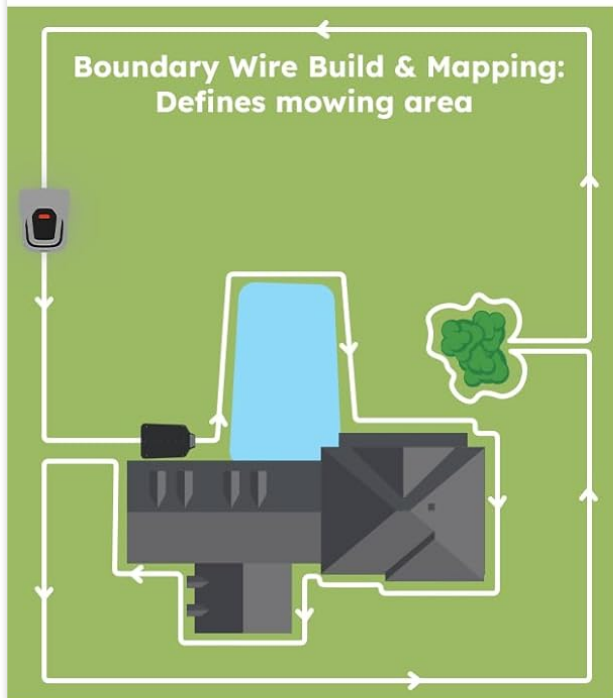


Image: A visual representation of the mower's U-shaped mowing path and its ability to automatically return to the charging station when needed.



# First Time Wiring And Perpetual Use



**Max 180 Meters**   **196.8 Yards**   **1/4 Acre Area**

- High Stability** Precisely defines mowing areas using a wired boundary, ensuring high stability and precise control over the robot's movement.
- One-Time Setup** Requires only initial boundary wire installation, with no need for further complex adjustments.
- Versatility** Suitable for various complex garden layouts and terrains.
- Maximum Support** In simple and regular terrains, 180m boundary wire can enclose an area of 1/4 acre (1000 m<sup>2</sup>). For complex and special terrains, additional charging station and boundary wires may be needed

**Maximum Support of 180 Meters**



180 Meters  
Boundary Wire



240 Pcs  
Wire Pegs



Ruler



Waterproof Wire  
Connector

Image: A side-by-side comparison illustrating the ANTHBOT's precise, line-by-line mowing pattern versus the less efficient random patterns of other mowers.

## 4.2. Automatic Charging and Resumption

The mower is equipped with a large battery providing 70 minutes of cutting time. When the battery level drops below 15%, it automatically returns to the charging station. Once 90% charged, it resumes mowing from where it left off.



Image: The robotic lawn mower intelligently navigating back to its charging station when its battery is low.

### 4.3. APP Control and Monitoring

Utilize the user-friendly ANTHBOT APP to monitor mowing progress, schedule mowing times, receive alerts, and view the real-time position and coverage area of the mower. The app allows for flexible adjustment of cutting height (3-7 cm).



# Time-Saving, Effort & Money Saving

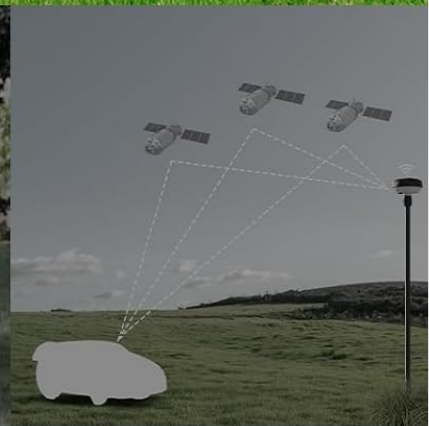
For a lawn of 1/4 Acre, save about 50% electricity per year



**Manual Lawn Mower**



**Time & Effort Consuming**



**GPS Style Robot**  
Likely to lose signal and  
cause confusion, or not work

Image: A smartphone screen showing the ANTHBOT app, which provides real-time tracking and control over the robot lawn mower.



Image: A detailed view of the ANTHBOT app interface, specifically highlighting the options for adjusting the cutting height of the mower.

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Video: Robotic Lawn Mower Test Experience. This video provides a comprehensive test and review of the robotic lawn mower's performance in various conditions.

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Video: Robot Lawn Mower Robotic Lawnmower Self Drive Mapping. This video demonstrates the self-driving and mapping capabilities of the robotic lawn mower.

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Video: Robot Lawn Mower. A general overview video showcasing the robot lawn mower in operation.

#### 4.4. Slope Handling and Waterproof Rating

The mower can handle slopes up to 45% (24°). It has collision sensors to adjust direction and an IPX6 waterproof rating, allowing use in light rain and easy cleaning with a garden hose.

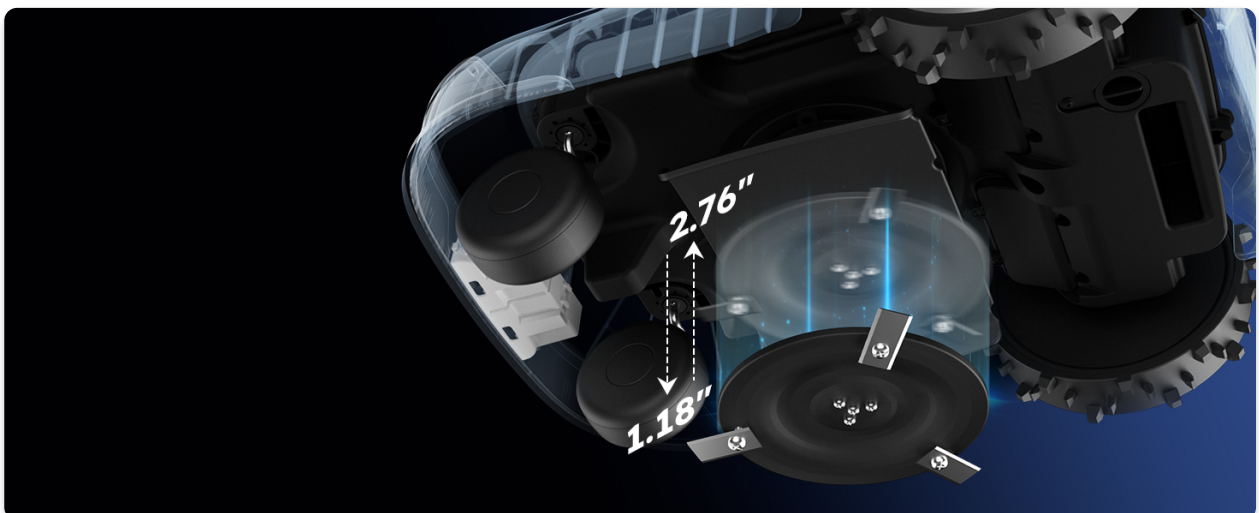


Image: The robot lawn mower demonstrating its capability to ascend a 45% incline, highlighting its robust design for varied terrain.





## 5. MAINTENANCE

Regular maintenance ensures the longevity and performance of your ANTHBOT Robot Lawn Mower.

## 5.1. Blade Maintenance

The ANTHBOT mower features an automatic adjustable blade deck, allowing cutting heights from 1.18 inches to 2.76 inches (3-7 cm). When encountering tall or dense grass, the smart blades automatically adjust. Regularly inspect blades for sharpness and replace them when dull to ensure a clean cut.

# Raises And Lowers The Blade Disc

To Cut Grass Of Different Heights By App Precise Control

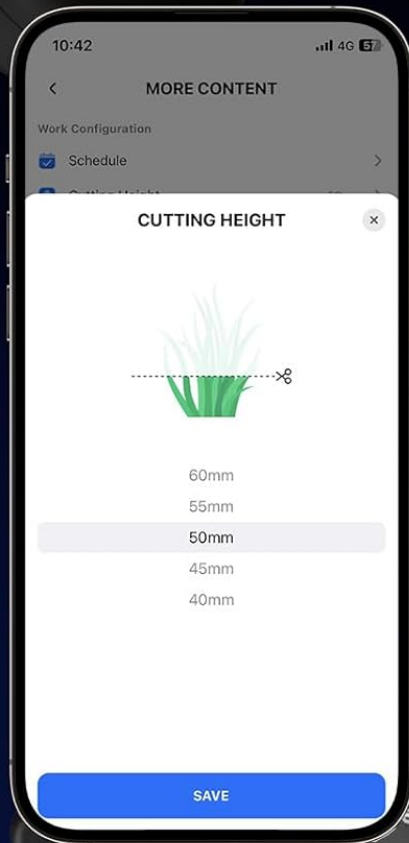


Image: A detailed view of the mower's blade disc and internal motor mechanism, illustrating the cutting components.



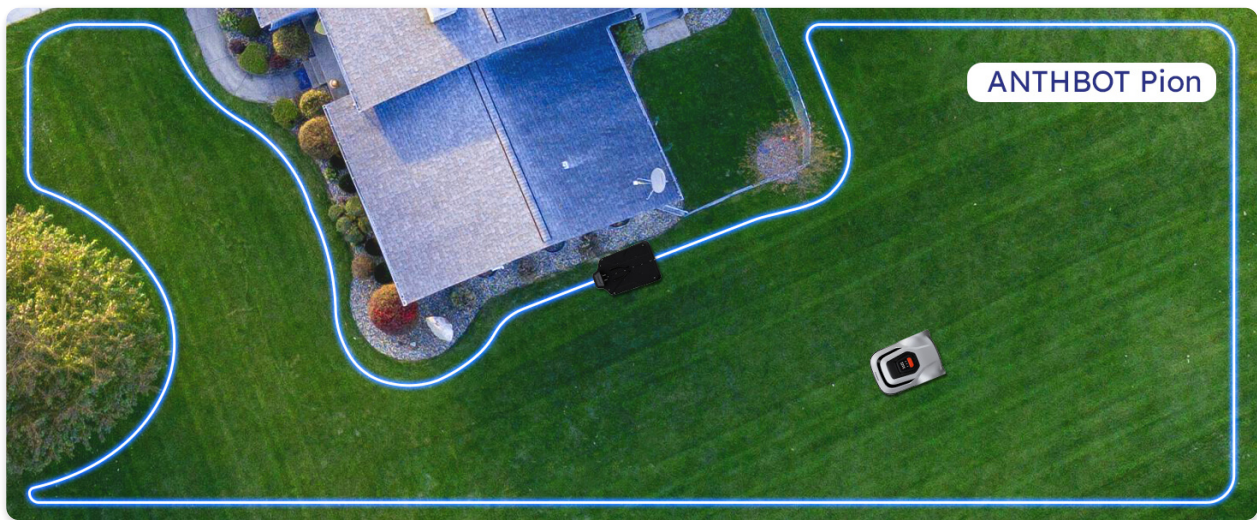


Image: An illustration demonstrating the adjustable cutting height range of the mower's blades, from 1.18 inches to 2.76 inches.

## 5.2. Cleaning

Due to its IPX6 waterproof rating, the mower can be easily cleaned with a garden hose. Ensure the mower is turned off and disconnected from the charging station before cleaning. Remove any grass clippings or debris from the cutting deck and wheels.

# 6. TROUBLESHOOTING

This section addresses common issues you might encounter with your ANTHBOT Robot Lawn Mower.

## 6.1. Boundary Wire Break Detection

A unique feature of the ANTHBOT mower is its ability to automatically detect boundary wire breaks. If a break occurs, bring the mower back to the charging station, and the app will identify the exact location of the damage. Use the included cable connectors for repair.



Image: The ANTHBOT app displaying a detected boundary wire break, with the mower stopped near the affected area, indicating the precise location of the issue.

## 6.2. "Boundary wire length or working area are overlimit" Error

This error indicates that the boundary wire length or the defined working area exceeds the mower's capacity. The maximum supported boundary wire length is 180 meters. If your lawn area exceeds 550 , it is recommended to add an additional charging station and boundary wires to improve efficiency, as the included 180-meter wire covers the maximum allowed area for a single setup.

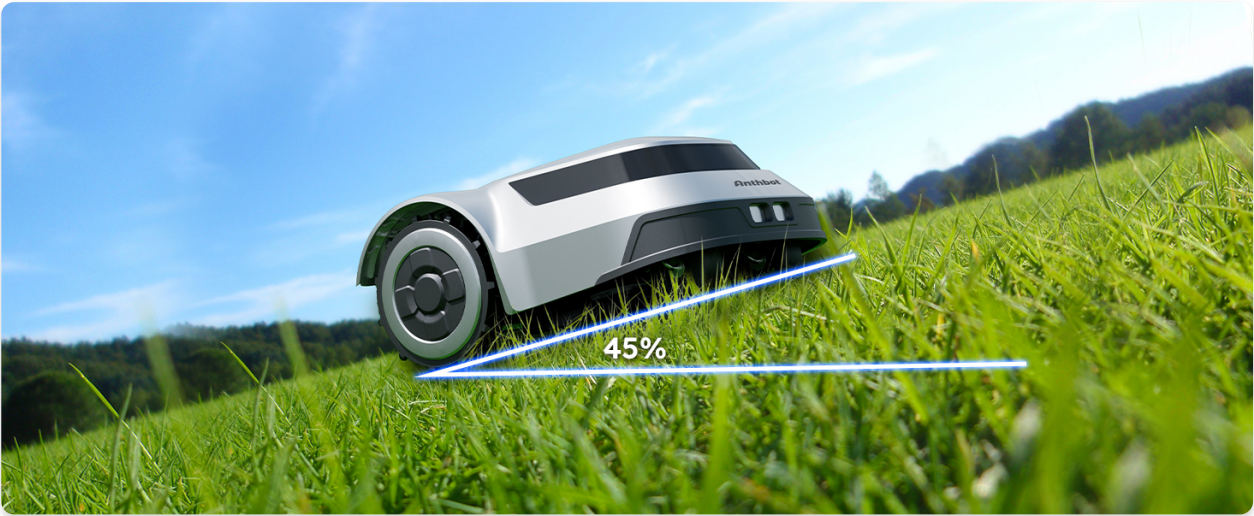


Image: An illustration demonstrating the use of two charging stations to cover larger lawn areas, addressing the "overlimit" error.

6.3. Mower Not Moving or Charging

- Check if the power adapter is securely connected to the charging station and a power outlet.
- Ensure the charging contacts on the mower and station are clean and free of debris.
- Verify that the boundary wire is intact and properly connected to the charging station.
- Check the app for any error messages or status updates.

7. SPECIFICATIONS

Feature	Specification
Brand	ANTHBOT
Model Number	Pion900
Power Source	Battery Powered
Material	Plastic
Color	Gray
Style	Boundary Wire Mower
Item Weight	23.6 Pounds



Feature	Specification
Cutting Width	7.87 Inches
Operation Mode	Automatic
Max Adjustable Cutting Height	2.76 Inches
Min Adjustable Cutting Height	1.18 Inches
Maximum Coverage Area	900 (Recommended 550 )
Max Slope Handling	45% (24°)
Waterproof Rating	IPX6
Battery Life (per charge)	70 minutes

## 8. SAFETY INFORMATION

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Always adhere to the following safety guidelines when operating or maintaining your robot lawn mower:

- Read the entire manual before first use.
- Keep hands and feet away from the blades.
- Do not operate the mower if blades are damaged.
- Ensure children and pets are clear of the mowing area during operation.
- Turn off the mower and disconnect from power before performing any maintenance or cleaning.
- Only use original replacement parts and accessories.
- Do not use the mower in heavy rain or extreme weather conditions.

## 9. WARRANTY AND SUPPORT

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For warranty information and technical support, please refer to the official ANTHBOT website or contact customer service directly. ANTHBOT is committed to providing assistance for any technical challenges you may face.

*"ANTHBOT Vision: Always Green Spaces. We aim to create vibrant gardens through our advanced robotic lawn mowers. Mission: Smart Lawns, Happy Lives. Our technology transforms gardening into an efficient, enjoyable experience, making your garden a joy, not a chore. Why Choose US ? We offer cutting-edge, sustainable robotic mowers that lead the way in revolutionizing lawn care. Facing tech challenges? Don't worry—we're here to help you master it!"*



Image: The official ANTHBOT company logo.

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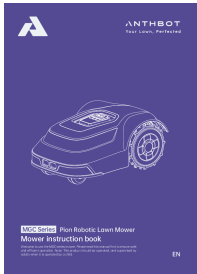
Video: Anthbot Packaging List. This video details the contents of the ANTHBOT product packaging, useful for verifying all components upon receipt.

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For further assistance, visit [ANTHBOT Store](#).

Related Documents - Pion900

	<p><a href="#">ANTHBOT Lawn Mower: Operational Guidelines and Installation</a></p> <p>Detailed operational guidelines and installation instructions for ANTHBOT lawn mowers, covering boundary wire setup, docking station installation, and basic operation.</p>
	<p><a href="#">ANTHBOT Genie Robotic Lawn Mower Quick Installation Guide</a></p> <p>Comprehensive quick installation guide for the ANTHBOT Genie robotic lawn mower. Learn how to download the app, find a location, install the charging station and RTK base, and start mowing. Includes operational steps and support information.</p>
	<p><a href="#">Genie Robot Lawn Mower FAQ and Troubleshooting Guide</a></p> <p>A comprehensive guide to the Genie robot lawn mower, covering installation, network setup, mapping, mowing issues, RTK and 4G functionality, error codes, and troubleshooting.</p>
	<p><a href="#">ANTHBOT Genie Series Robotic Mower: Original Instructions and User Manual</a></p> <p>This document contains the original instructions and user manual for the ANTHBOT Genie Series robotic mower, covering setup, operation, safety, maintenance, and troubleshooting for models like Genie600, Genie1000, and Genie3000.</p>
	<p><a href="#">ANTHBOT MGC Series Robotic Lawn Mower Operator's Manual</a></p> <p>Comprehensive operator's manual for the ANTHBOT MGC Series Robotic Lawn Mower (MGC500, MGC750, MGC1000). Includes installation, operation, safety guidelines, maintenance, and troubleshooting.</p>





### [ANTHBOT MGC Series Pion Robotic Lawn Mower Instruction Manual](#)

Comprehensive instruction manual for the ANTHBOT MGC Series Pion Robotic Lawn Mower, covering safety, operation, installation, maintenance, and troubleshooting.