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> [ECOVACS Goat O1000 RTK Robot Lawn Mower User Manual](#)

ECOVACS GOAT O1000 RTK

ECOVACS GOAT O1000 RTK Robot Lawn Mower User Manual

Model: GOAT O1000 RTK

INTRODUCTION

The ECOVACS GOAT O1000 RTK is an advanced robotic lawn mower designed to provide effortless and efficient lawn maintenance. Utilizing cutting-edge AI technology, it offers a wire-free setup, automated mapping, and intelligent navigation. This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your GOAT O1000 RTK to ensure optimal performance and a perfectly manicured lawn.



Figure 1: ECOVACS GOAT O1000 RTK Robot Lawn Mower

SETUP

The GOAT O1000 RTK features a wire-free setup, eliminating the need for physical boundary wires. The automated mapping system quickly generates a precise layout of your yard.

Initial Setup Steps:

1. **Charging Station Placement:** Select a location for the charging station that is away from buildings or overhanging structures to ensure the robot receives clean GPS signals. The RTK pole also requires an unobstructed view of the sky.
2. **Power Connection:** Connect the charging station to a power outlet. Ensure all connections are secure and, if using an extension cord, that it is waterproof.
3. **App Installation:** Download and install the ECOVACS app on your smartphone (Android or Apple).
4. **Robot Pairing:** Follow the in-app instructions to pair your GOAT O1000 RTK with the app.
5. **Automated Mapping:** Utilize the app's auto-mapping feature. The robot uses AI and computer vision to identify and map your lawn's boundaries. For certain areas, you may need to manually steer the robot via the app to complete the mapping process. It is recommended to cut and edge the grass first for optimal obstacle detection during mapping.
6. **Zone Definition:** Once mapped, define your mowing zones within the app. The robot requires approximately 4ft width to create a zone.

The image is a vertical comparison graphic. The left side shows a white robotic mower on a lawn with a blue grid overlay representing automated mapping. A smartphone displays the ECOVACS app interface with a 'Start' button. A thumbs-up icon is in the top left, and a '2 Year Warranty' badge is on the left. A large blue arrow points to the text '15 Mins Hands-Free Setup'. The right side shows a hand installing a metal boundary wire on a lawn. A thumbs-down icon is in the top right. A large grey arrow points to the text '60+ Mins Boundary Wire Setup'. At the bottom, a blue banner contains the text 'Quicker Start with Minimal Effort Automated Mapping and Wire-Free Set-Up'.

Figure 2: Wire-Free Setup and Automated Mapping



Stable Connection Even in the Shade

LELS™, LiDAR-Enhanced RTK Navigation

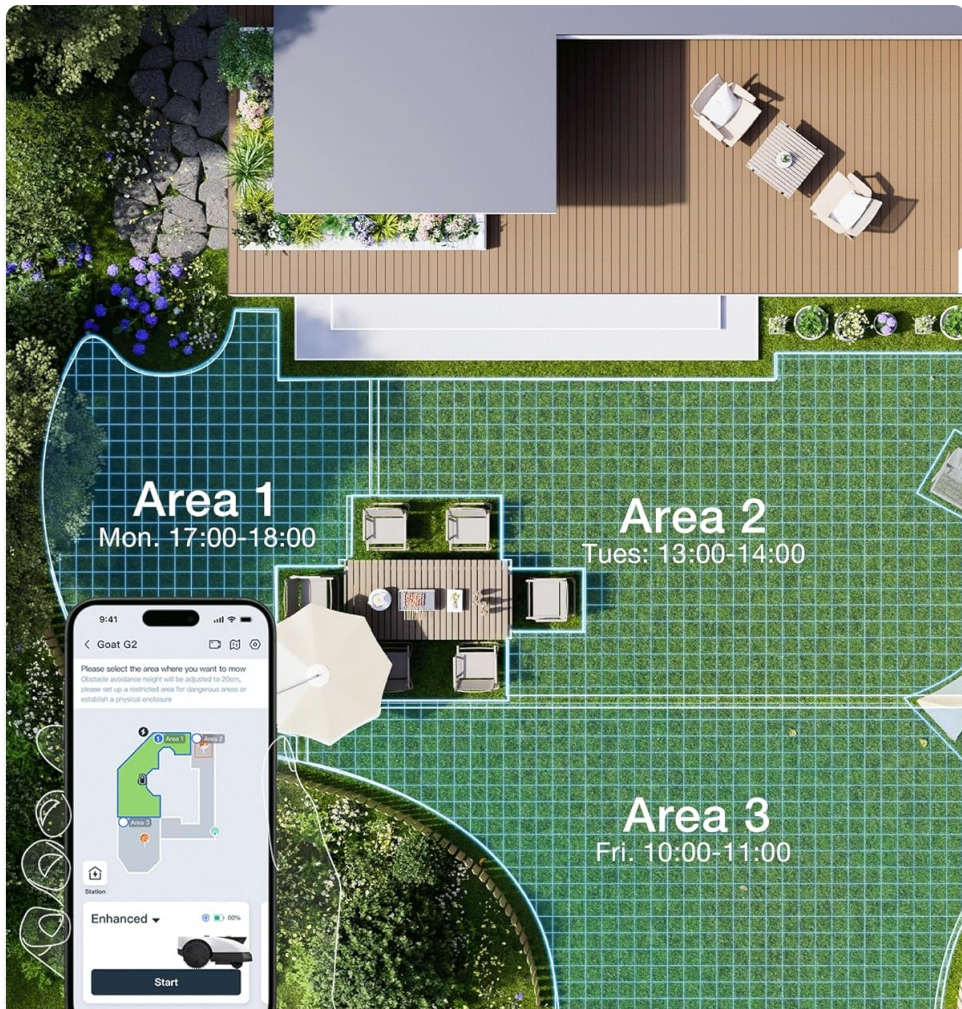
Figure 3: Stable Connection with LiDAR-Enhanced RTK Navigation

OPERATING

The ECOVACS GOAT O1000 RTK offers smart app control for a customized lawn care experience.

App Control and Customization:

- **Editable Map:** Easily add, merge, split, or delete areas on the map within the app, giving you full control over your lawn layout.
- **Multiple Paths:** Set multiple paths for the robot to travel between different zones.
- **No-Go Zones:** Define specific areas where the robot should not mow.
- **Zone-Specific Settings:** Customize settings for different zones, including cutting speed, cutting height (1.2 to 3.2 inches), obstacle avoidance height, and mowing direction, to match your personal preferences and schedule.
- **Automated Mowing:** Once zones and paths are defined, the robot can be scheduled to operate automatically, mowing in efficient U-shaped patterns for complete coverage.



Customizable Mowing Experience

Editable Map and Multiple Zone Management

Figure 4: Customizable Mowing Experience with App Control

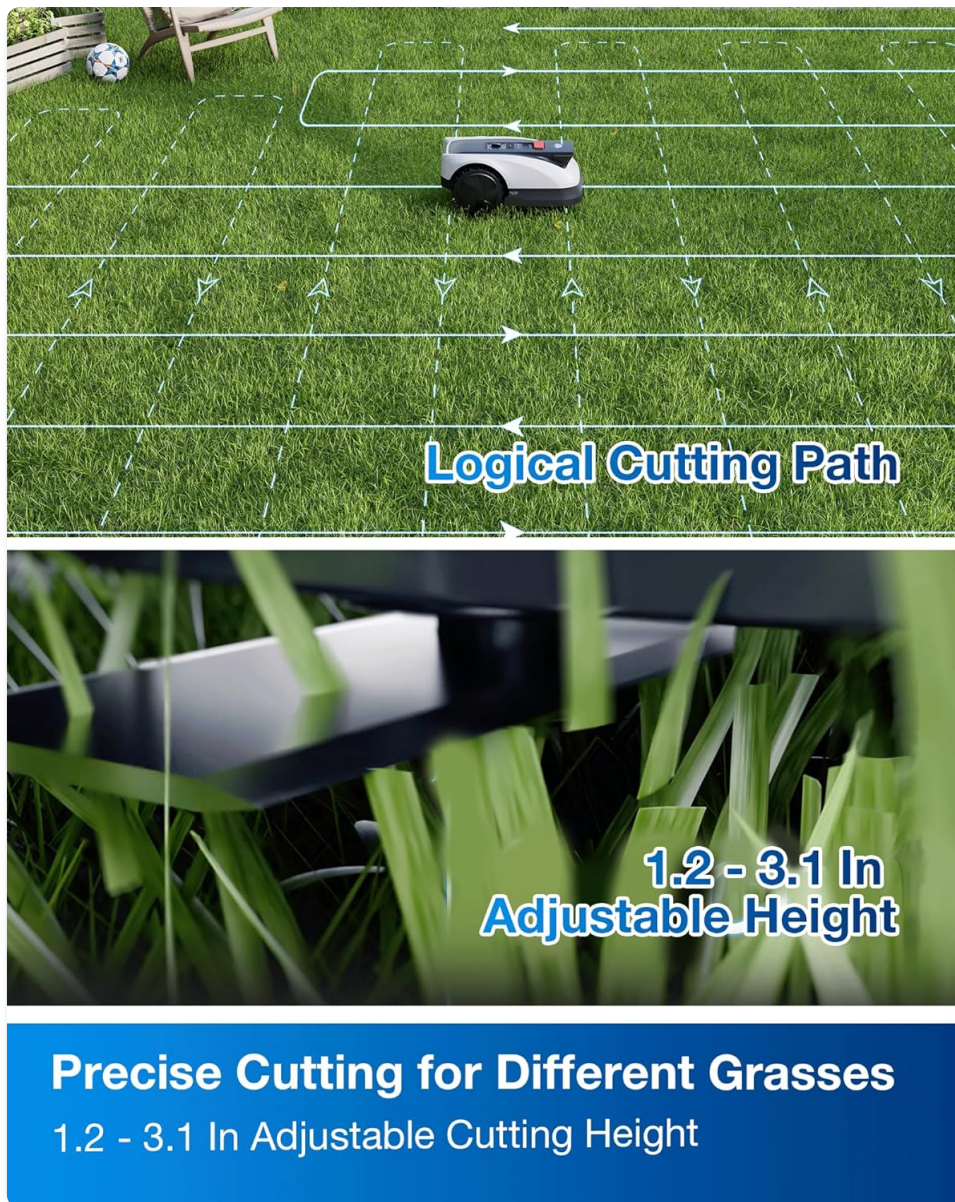


Figure 5: Logical Cutting Path and Adjustable Height

Video: Edge Safety Mow

Your browser does not support the video tag.

This video demonstrates the ECOVACS GOAT O1000 RTK's edge safety mowing feature, showcasing its ability to perform precise cuts along lawn edges.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your ECOVACS GOAT O1000 RTK.

Key Maintenance Practices:

- **Blade Replacement:** The GOAT O1000 RTK uses standardized razor disk blades. Replace them as needed to maintain cutting quality. The frequency of replacement depends on lawn conditions and usage.
 - **Cleaning:** The robot has an IPX6 waterproof rating, allowing it to run reliably in various weather conditions. Clean the mower regularly, especially the cutting deck and wheels, to prevent grass buildup.
 - **Storage:** When not in use for extended periods, store the robot and charging station in a dry, protected area.
-

Pass Through Tight Spaces

Super-Narrow Body



Reach Every Zone in Your Lawn

45% (24°) Slope Climbing



Super Easy Maintenance

IPX6 Waterproof Design



Figure 6: Robust Design for Challenging Terrains and Easy Maintenance

TROUBLESHOOTING

This section addresses common issues you might encounter with your ECOVACS GOAT O1000 RTK.

Common Issues and Solutions:

- **Robot Avoiding Areas:** The AIVI 3D obstacle avoidance system intelligently detects and navigates around objects, pets, and even small wildlife. If the robot avoids certain areas, check for obstacles such as tall weeds (e.g., dandelions) or low-hanging bushes that it might perceive as obstructions. Clearing these can resolve the issue.
- **Inability to Create Narrow Zones:** The robot requires a minimum width of approximately 4ft to create a mowing zone. For very narrow strips (e.g., 2.5ft), manual trimming or a string trimmer may still be necessary.
- **Robot Returning to Charger Unexpectedly:** If the robot is scheduled to pass through a gate or specific path and it returns to the charger, ensure the path is clear and any gates are open. The robot will return if its intended path is blocked.
- **GPS Signal Issues:** Ensure the charging station and the robot itself have a clear view of the sky to receive sufficient GPS signals. Obstructions like dense tree cover or buildings can interfere with signal reception. The LiDAR-Enhanced RTK navigation is designed to boost stability in shaded areas, but extreme blockage can still affect performance.



Optimal Lawn Coverage

TruEdge Consistent Edge Mowing

Figure 7: Optimal Lawn Coverage with TruEdge Consistent Edge Mowing

SPECIFICATIONS

Feature	Detail
Brand	ECOVACS
Model Number	GOAT O1000 RTK
Power Source	Battery Powered
Color	White
Cutting Width	8.66 Inches
Number of Positions	11
Operation Mode	Automatic
Product Dimensions	27.8"D x 11.22"W x 16.93"H

Feature	Detail
Maximum Adjustable Cutting Height	3.2 Inches
Minimum Adjustable Cutting Height	1.2 Inches
Item Weight	45.5 pounds
Country of Origin	China
Batteries	1 P76 batteries required (included)
Waterproof Rating	IPX6
Climbing Ability	45% (24°)

WARRANTY AND SUPPORT

ECOVACS offers protection plans for your GOAT O1000 RTK to ensure peace of mind.

Protection Plans:

- **2-Year Protection Plan:** Available for extended coverage.
- **3-Year Protection Plan:** Available for extended coverage.

For any issues or inquiries, ECOVACS customer service is available to provide assistance. Refer to the product packaging or the ECOVACS official website for contact information and detailed warranty terms.