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› [ECOVACS](#) /

› [ECOVACS GOAT O1000 LiDAR PRO Robotic Lawn Mower User Manual](#)

ECOVACS GOAT O1000 LiDAR PRO

ECOVACS GOAT O1000 LiDAR PRO Robotic Lawn Mower User Manual

Model: GOAT O1000 LiDAR PRO

1. INTRODUCTION

The ECOVACS GOAT O1000 LiDAR PRO is an advanced robotic lawn mower designed for automated lawn care. It features wire-free LiDAR navigation, an integrated TruEdge trimmer for precise edge cutting, and AIVI 3D obstacle avoidance for safe operation. This manual provides essential information for setting up, operating, and maintaining your robotic lawn mower.



Image: The ECOVACS GOAT O1000 LiDAR PRO, highlighting its integrated trimmer for hands-free mowing.

Key Features:

- **Wire-Free LiDAR Navigation:** Utilizes a HoloScope 360° Dual-LiDAR system for automatic yard mapping and precise 2 cm positioning without perimeter wires or RTK antennas.
- **Built-In TruEdge Trimmer:** Integrated trimmer for true edge-to-edge cutting along driveways, sidewalks, and flower beds, reducing manual trimming.
- **Advanced AIVI 3D Obstacle Detection:** AI Vision and 3D ToF LiDAR identify and navigate around over 200 types of obstacles, maintaining safe clearance.
- **Smart App-Controlled:** Manage mowing zones, set no-go areas, adjust cutting height and speed, and customize

schedules via the ECOVACS app.

- **Designed for Tight Spaces:** Super-narrow body allows passage through corridors as slim as 0.8 m.
- **45% Slope Capability:** Capable of climbing slopes up to 45% (24°).

2. SAFETY INFORMATION

Read all safety warnings and instructions carefully before operating the ECOVACS GOAT O1000 LiDAR PRO. Failure to follow these instructions may result in electric shock, fire, or serious injury.

General Safety Precautions:

- Always ensure the work area is clear of debris, toys, and other objects before starting the mower.
- Keep children and pets away from the mowing area during operation. The AIVI 3D obstacle avoidance system is designed to detect objects, but direct supervision is always recommended.
- Do not operate the mower in wet conditions or during heavy rain.
- Turn off the mower and remove the safety key before performing any maintenance, cleaning, or when lifting the unit.
- Ensure the charging station is placed on a level surface in a shaded area, protected from direct sunlight and extreme weather.
- Do not modify the mower or its components. Use only genuine ECOVACS replacement parts.

3. PACKAGE CONTENTS

Upon unboxing, verify that all components are present and undamaged. The standard package for the ECOVACS GOAT O1000 LiDAR PRO typically includes:

- ECOVACS GOAT O1000 LiDAR PRO Robotic Lawn Mower
- Charging Station
- Power Adapter and Cable
- Replacement Blades (if included)
- Quick Start Guide and User Manual
- Safety Key

Video: An overview of the ECOVACS GOAT O1000 LiDAR PRO Robotic Lawn Mower, demonstrating its features and components.

4. SETUP

4.1. Charging Station Placement

Place the charging station on a flat, level surface in an area with good Wi-Fi signal. Ensure there is sufficient clear space around the station for the mower to dock and undock easily. The GOAT O1000 LiDAR PRO does not require perimeter wires or RTK antennas, simplifying setup.

Stable Navigation, Instant Setup

HoloScope 360 Dual-LiDAR Navigation



≈ 1 MIN
Instant Setup

0.8-INCH
Positioning Accuracy



OTHERS

≈15 Min Tedious Setup



OTHERS

Signal Lost in the Shade

Image: The robotic lawn mower approaching its charging station, demonstrating its autonomous docking capability.

4.2. App Installation and Connection

Download the ECOVACS HOME app from your device's app store. Follow the in-app instructions to connect your GOAT O1000 LiDAR PRO to your smartphone via Bluetooth and then to your home Wi-Fi network (2.4GHz recommended).

Video: Instructions on how to connect the ECOVACS GOAT O1000 LiDAR PRO to the ECOVACS HOME app, including Bluetooth pairing and Wi-Fi setup.

4.3. Yard Mapping

The GOAT O1000 LiDAR PRO uses its HoloScope 360° Dual-LiDAR system to automatically map your yard. Initiate the mapping process through the ECOVACS HOME app. During mapping, follow the mower closely and stay within a 6-meter radius to maintain stable communication. For narrow passages, keep the mower close to one edge to ensure the recorded path width allows for normal passage. When encountering slopes, approach them head-on to optimize future navigation and avoid horizontal movement across steep inclines.



Image: The robotic lawn mower using its HoloScope 360 Dual-LiDAR system for stable navigation and instant yard setup.

Video: Detailed instructions on how to effectively map your yard with the ECOVACS GOAT O1000 LiDAR PRO, including tips for narrow passages and slopes.

5. OPERATING INSTRUCTIONS

5.1. Starting and Stopping Mowing

To start mowing, use the ECOVACS HOME app to select a mowing mode and initiate the task. The mower will automatically leave its charging station and begin operation. To stop the mower at any time, press the large red STOP button on the top of the unit or use the pause function in the app.

5.2. Mowing Modes

- **Standard Mowing:** The mower uses its auto-mapping and efficient path planning algorithms to cover the entire designated area.
- **Edge Mowing (TruEdge Trimmer):** Select 'Trim Mode' in the app to activate the integrated TruEdge trimmer. This allows the mower to precisely cut along the very edges of your lawn, including areas that traditional robotic mowers might miss.
- **Custom Zones & No-Go Areas:** Use the ECOVACS HOME app to define specific mowing zones, set no-go areas, and create travel paths between zones for personalized lawn care.



Image: The ECOVACS HOME app displaying options for customizable mowing experiences, including scheduled mowing and multi-area management.

Video: A demonstration of how to perform edge mowing with the ECOVACS GOAT O1000 LiDAR PRO, utilizing its TruEdge trimmer for clean lawn boundaries.

5.3. Adjusting Cutting Height

The cutting height of the GOAT O1000 LiDAR PRO is adjustable from 1.2 to 3.1 inches (approximately 3 cm to 7.9 cm). This can be adjusted via the ECOVACS HOME app to suit different grass types and desired lawn lengths.



Image: The robotic lawn mower demonstrating precise cutting with an adjustable height feature, ensuring efficient path planning.

5.4. Obstacle Avoidance and Slope Handling

The AIVI 3D Obstacle Avoidance system, combining AI Vision and 3D ToF LiDAR, allows the mower to detect and navigate around over 200 types of obstacles, including small items and pets. The mower is also capable of climbing slopes up to 45% (24°), ensuring comprehensive coverage even on varied terrain.



Image: The robotic lawn mower intelligently navigating around a soccer ball, showcasing its smart dodging and smooth mowing capabilities.

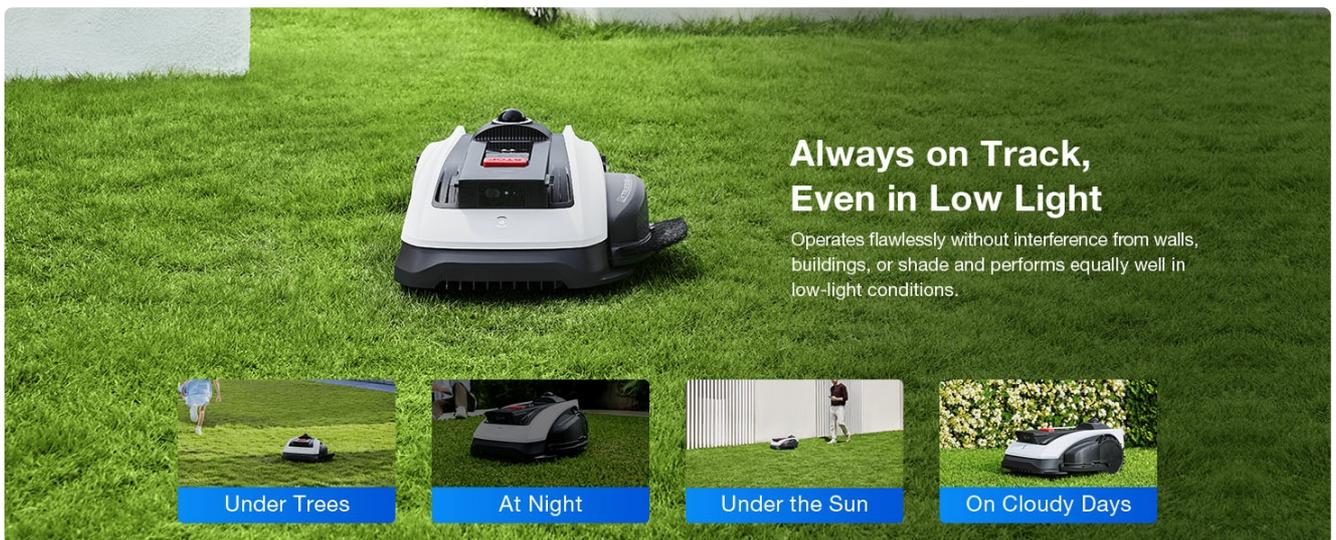


Image: The robotic lawn mower demonstrating its ability to conquer challenging terrain by climbing a 45% slope.

5.5. Night Operation

The HoloScope 360 Dual-LiDAR Navigation system, combined with a 3D-ToF LiDAR and an AI camera, ensures stable and highly accurate navigation across your entire lawn, maintaining 0.8-inch precision even in low-light conditions or at night.



Image: The robotic lawn mower operating effectively in diverse conditions, including low light, under trees, and on cloudy days.

6. MAINTENANCE

6.1. Cleaning

The ECOVACS GOAT O1000 LiDAR PRO is IPX6 waterproof, allowing for easy cleaning with a simple rinse. Regularly clean the mower's exterior, wheels, and sensors to ensure optimal performance. Always power off the mower and remove the safety key before cleaning.

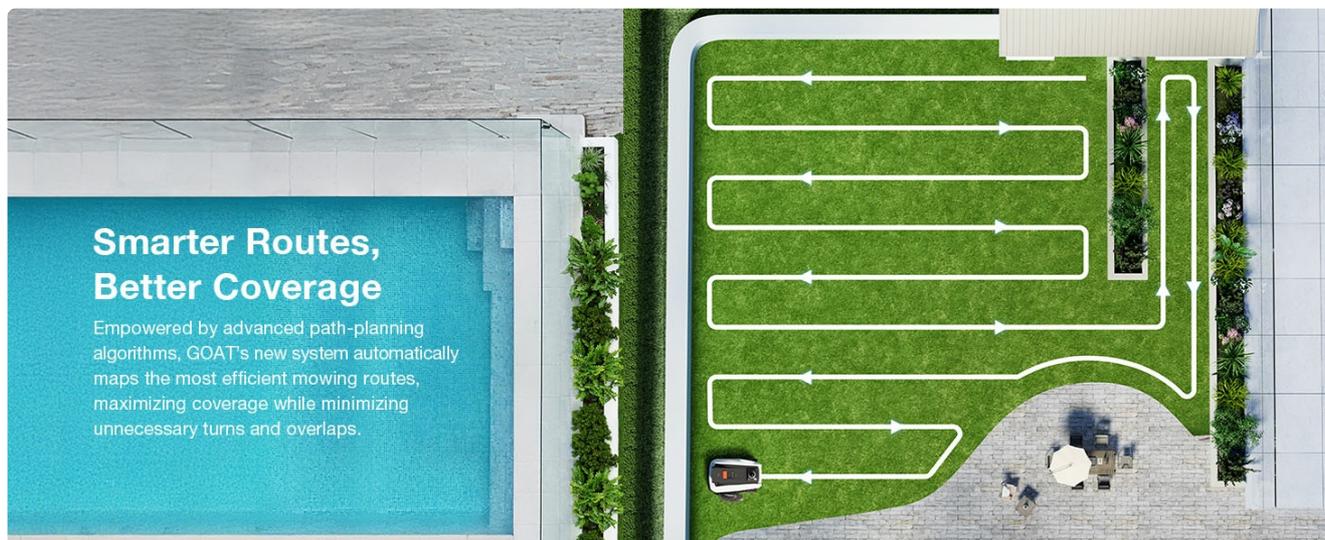


Image: The robotic lawn mower undergoing a rinse, highlighting its hassle-free maintenance due to its waterproof design.

6.2. Blade Maintenance

Inspect the cutting blades regularly for wear and tear. Dull or damaged blades can affect cutting performance and may need replacement. Refer to the Quick Start Guide for instructions on how to safely replace the blades. Always wear protective gloves when handling blades.

6.3. Trimmer Maintenance

The TruEdge trimmer line may need occasional replacement depending on usage. Check the trimmer module for any tangles or debris. Follow the instructions in the Quick Start Guide for replacing the trimmer line. Ensure the mower is powered off and the safety key is removed before performing any trimmer maintenance.

7. TROUBLESHOOTING

If you encounter issues with your ECOVACS GOAT O1000 LiDAR PRO, refer to the following common troubleshooting tips:

- **Mower not starting:** Ensure the safety key is inserted, the battery is charged, and the mower is not in an error state. Check the app for error messages.
- **Poor navigation/mapping:** Ensure the LiDAR sensors are clean and unobstructed. Re-map the area if necessary, following the guidelines for narrow passages and slopes.
- **App connectivity issues:** Verify your Wi-Fi network is 2.4GHz and has a strong signal. Ensure Bluetooth is enabled on your phone and the mower.
- **Uneven cutting:** Inspect blades for damage or dullness and replace if needed. Adjust the cutting height in the app.
- **Mower stuck:** Clear any obstacles from the mower's path. If it's stuck on uneven terrain, manually reposition it.

For more detailed troubleshooting, consult the full user manual or contact customer support.

8. SPECIFICATIONS

Brand	ECOVACS
Model Number	GOAT O1000 LiDAR PRO
Power Source	Battery Powered
Material	Plastic
Color	Black
Item Weight	47.7 Pounds
Cutting Width	8.66 Inches
Operation Mode	Automatic
Product Dimensions (D x W x H)	1.95"D x 1.56"W x 0.58"H
Assembly Required	Yes
Maximum Adjustable Cutting Height	9.14 Centimeters (3.6 inches)
UPC	850077202353

9. WARRANTY INFORMATION

The ECOVACS GOAT O1000 LiDAR PRO Robotic Lawn Mower comes with a standard manufacturer's warranty. Please refer to the warranty card included in your product packaging or visit the official ECOVACS website for detailed terms and conditions, including coverage period and claim procedures. Keep your proof of purchase for warranty validation.

10. CUSTOMER SUPPORT

For technical assistance, troubleshooting, or general inquiries regarding your ECOVACS GOAT O1000 LiDAR PRO, please contact ECOVACS customer support. Contact information can typically be found in the Quick Start Guide, on the product packaging, or on the official ECOVACS website. Online resources, including FAQs and video tutorials, may also be available.