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ECOVACS GOAT A2000 LiDAR PRO

ECOVACS GOAT A2000 LiDAR PRO Robotic Lawn Mower User Manual

Model: GOAT A2000 LiDAR PRO

INTRODUCTION

This manual provides essential instructions for the setup, operation, and maintenance of your ECOVACS GOAT A2000 LiDAR PRO Robotic Lawn Mower. Please read this manual thoroughly before using the product to ensure safe and efficient operation.

The ECOVACS GOAT A2000 LiDAR PRO is a wire-free robotic lawn mower designed for automated lawn care, featuring advanced LiDAR navigation, integrated edge trimming, and smart app control.

SETUP

1. Unpacking and Initial Placement

Carefully remove all components from the packaging. Place the charging station in a suitable outdoor location with access to power and a clear signal area for the mower.

2. Charging the Mower

Position the GOAT A2000 LiDAR PRO onto its charging station. Ensure proper contact for charging. The mower is equipped with a 3.0Ah battery and 113.4W fast charging, typically recharging in approximately 50 minutes.

3. App Installation and Pairing

Download the ECOVACS app from your device's app store. Follow the in-app instructions to pair your GOAT A2000 LiDAR PRO with your smartphone. This enables smart control and mapping functions.

4. Yard Mapping with LiDAR Navigation

The GOAT A2000 LiDAR PRO utilizes a HoloScope 360° Dual-LiDAR system for automatic yard mapping. Initiate the mapping process through the ECOVACS app. The system provides precise 2 cm positioning, even in areas with obstructions like trees or fences.

Conquer Challenging Terrains

50% (27°) Slope Climbing



Rinse for Easy Cleaning

IPX6 Waterproof



Enter Hard-to-Reach Zones

1.57-Inch Barrier Crossing



Image: The ECOVACS GOAT A2000 LiDAR PRO using its HoloScope 360 Dual-LiDAR system for precise yard mapping, demonstrating instant setup and 0.8-inch positioning accuracy.

During mapping, the mower identifies the boundaries of your lawn. You can then use the app to define multiple mowing zones, set no-go areas, and customize travel paths between zones.

OPERATING INSTRUCTIONS

1. Starting and Stopping Mowing

To start a mowing session, use the ECOVACS app or the physical controls on the mower. To stop, press the designated stop button on the mower or use the app. The mower will return to its charging station when a session is complete or the battery is low.

2. App Control and Customization

The ECOVACS app allows for comprehensive control:

- **Mowing Zones:** Create and manage specific areas for mowing.
- **No-Go Areas:** Designate zones the mower should avoid.
- **Cutting Height:** Adjust the cutting height between 1.2 inches and 3.5 inches.
- **Mowing Schedules:** Set customized schedules for automated mowing.
- **Mowing Speed:** Adjust the operational speed as needed.

Customizable Mowing Experience

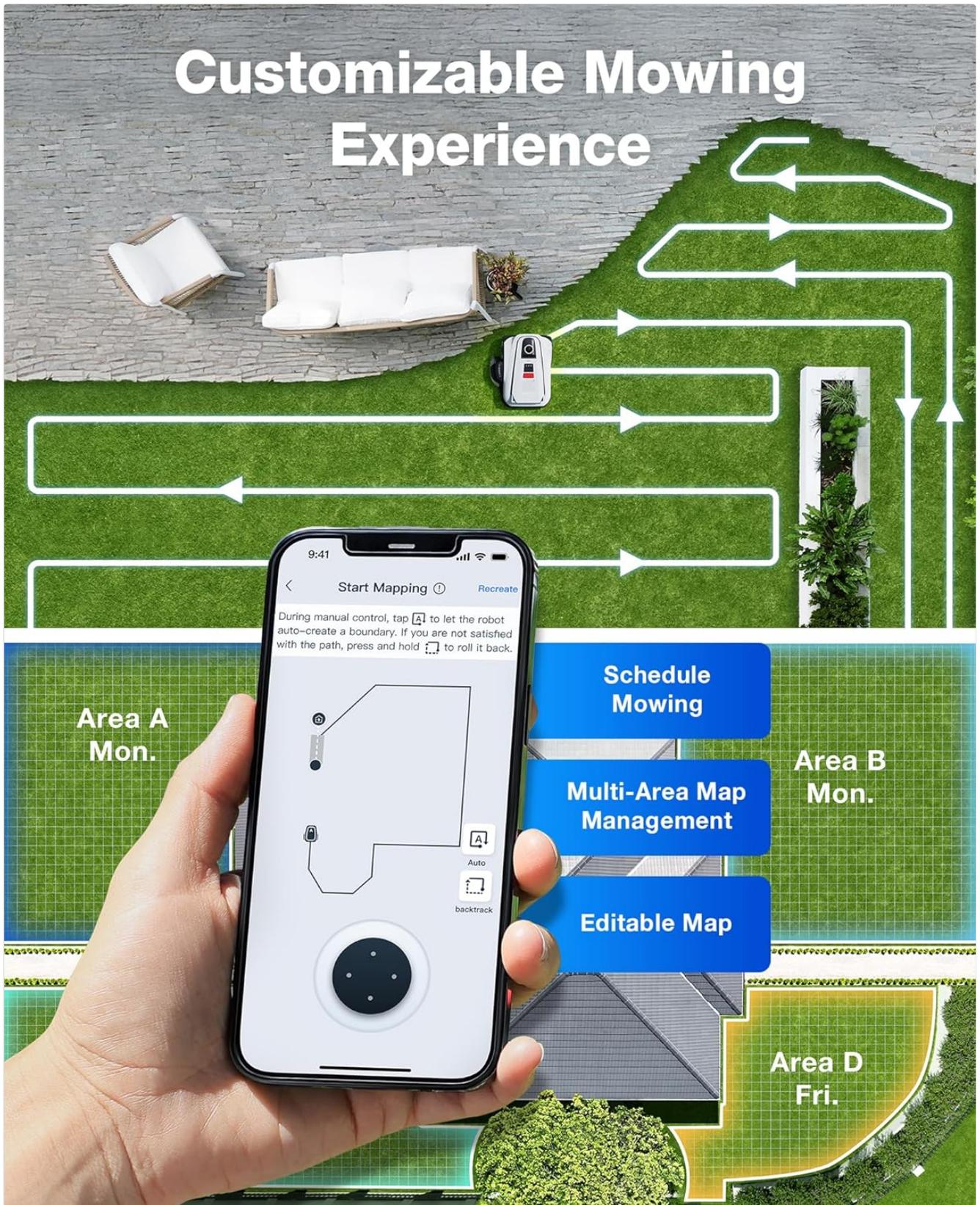


Image: The ECOVACS GOAT A2000 LiDAR PRO's cutting deck with dual gap-free blades, illustrating its ability to mow up to 0.5 acre in 10 hours and offering an adjustable cutting height range of 1.2 to 3.5 inches.

Smart Dodging, Smooth Mowing

AIVI 3D Obstacle Avoidance

Avoids

200+

Types of Obstacles



Image: The ECOVACS GOAT A2000 LiDAR PRO demonstrating its 113.4W fast charging capability and a mowing speed of 2.3 feet per second, minimizing downtime.

3. TruEdge Edge Trimming

The integrated TruEdge trimmer allows the GOAT A2000 LiDAR PRO to trim along driveways, sidewalks, flower beds, and irregular lawn borders, reducing the need for manual string trimming.

Less Waiting, More Mowing

Super-Fast Charging & High-Speed Movement



Image: The ECOVACS GOAT A2000 LiDAR PRO showcasing its built-in TruEdge trimmer, designed for precise edge-to-edge cutting without manual intervention.

4. Obstacle Avoidance

Equipped with AI Vision and 3D ToF LiDAR, the mower accurately identifies and navigates around over 200 types of obstacles, including toys, patio furniture, pets, and small wildlife. It maintains a safe clearance of 5 cm around objects.

Ultimate Hands-Free Mowing

Robotic Lawn Mower + Trimmer = GOAT



GOAT with TruEdge Trimmer
No Manual Trimming Needed



Still Stuck with Hand Trimming

Image: The ECOVACS GOAT A2000 LiDAR PRO demonstrating its AIVI 3D Obstacle Avoidance system, detecting and navigating around objects like a hedgehog and a garden hose.

5. Mowing Performance

The 32V motor and dual-blade disc system provide strong cutting torque for dense, fast-growing grass and uneven terrain. The mower is designed to handle various grass types, including Bermuda, Zoysia, Fescue, and St. Augustine grass.

Power Through Any Grass

32V Platform with Dual Gap-Free Blades



80%

Higher Mowing Power*

3X

Mowing Efficiency*

1.2"-3.5"

Adjustable Cutting Height

*Compared to previous GOAT modes. Data from ECOVACS lab.



Leave No Grass Uncut

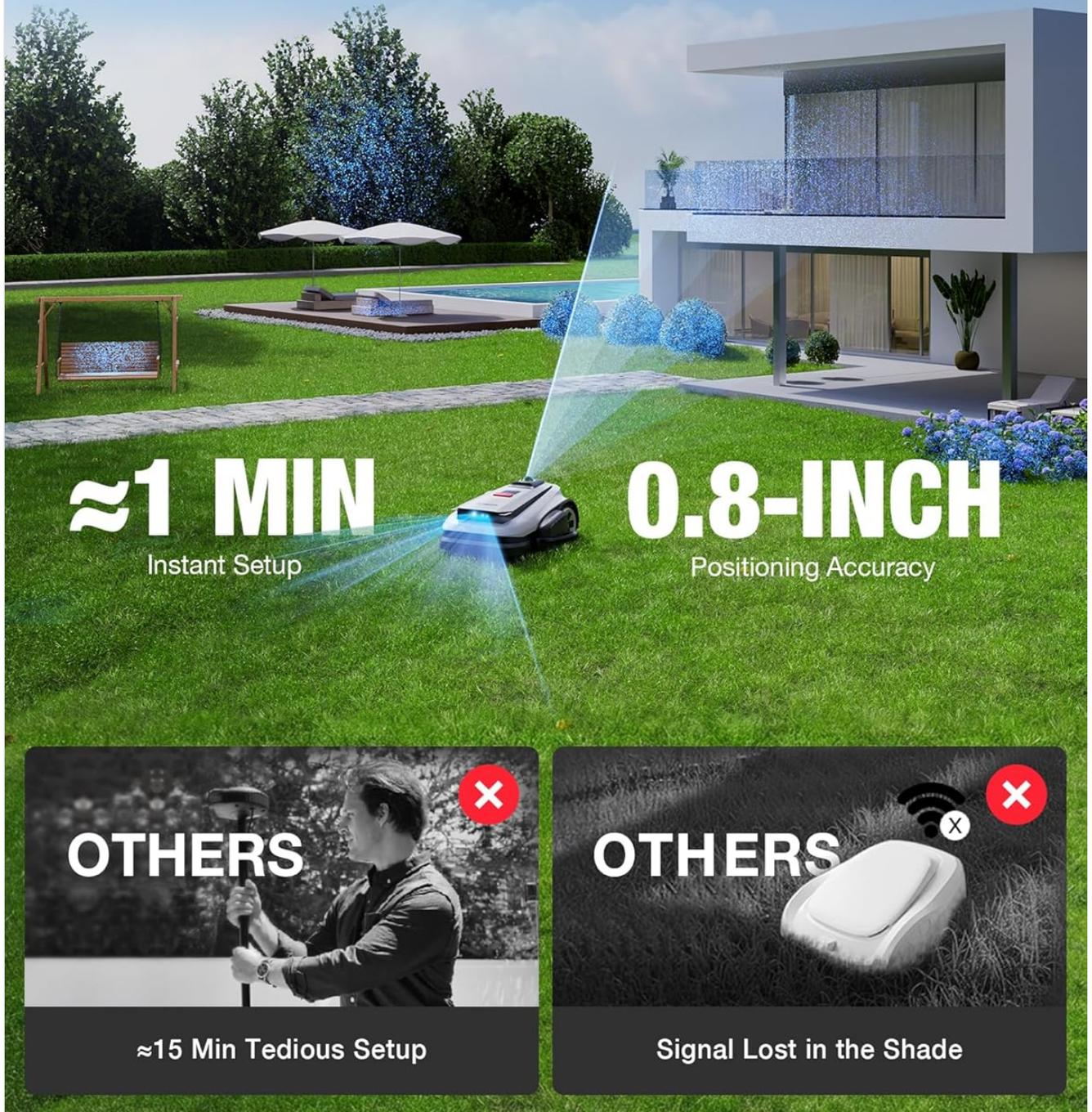


Miss Spots Between Blades

Image: Side view of the ECOVACS GOAT A2000 LiDAR PRO, highlighting its robust design and ability to navigate various terrains.

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: Rear view of the ECOVACS GOAT A2000 LiDAR PRO, showing its sturdy wheels and overall construction.

MAINTENANCE

1. Cleaning

The GOAT A2000 LiDAR PRO is IPX6 waterproof, allowing for easy cleaning with water. Regularly clean the cutting deck, wheels, and sensors to ensure optimal performance. Remove any grass clippings or debris that may accumulate.

2. Blade Inspection and Replacement

Periodically inspect the cutting blades for wear or damage. Dull or damaged blades can affect cutting quality. Replace blades as needed, following the instructions provided in the full product manual or on the ECOVACS support website.

3. Battery Care

To prolong battery life, ensure the mower is stored in a cool, dry place when not in use for extended periods. Fully charge the battery before long-term storage and recharge it periodically if stored for several months.

TROUBLESHOOTING

If you encounter issues with your ECOVACS GOAT A2000 LiDAR PRO, consider the following general troubleshooting steps:

- **Mower Not Starting:** Ensure the battery is charged and properly seated. Check for any error messages on the mower or in the app.
- **Navigation Issues:** Verify that the LiDAR sensors are clean and unobstructed. Ensure the mapping process was completed successfully and that no-go zones are correctly defined.
- **Poor Cutting Performance:** Inspect the blades for sharpness and damage. Clean the cutting deck of any accumulated grass.
- **App Connectivity Problems:** Ensure your smartphone's Bluetooth and Wi-Fi are enabled and that the mower is within range. Restart both the app and the mower if necessary.
- **Charging Problems:** Check the connection between the mower and the charging station. Ensure the charging station has power.

For more detailed troubleshooting guides and specific error codes, refer to the comprehensive user manual available on the ECOVACS support website.

SPECIFICATIONS

Brand	ECOVACS
Model Number	GOAT A2000 LiDAR PRO
Power Source	Battery Powered (32V Platform)
Battery Capacity	3.0Ah
Charging Power	113.4W Fast Charging
Charging Time	Approx. 50 minutes
Navigation System	HoloScope 360° Dual-LiDAR
Positioning Accuracy	2 cm
Obstacle Avoidance	AI Vision and 3D ToF LiDAR
Obstacle Detection Precision	Down to 5 cm
Cutting Width	3.6 Inches
Cutting Height Adjustment	1.2 - 3.5 Inches

Mowing Speed	2.3 FT/S
Waterproof Rating	IPX6
Product Dimensions (L x W x H)	76.81 x 43.15 x 57.99 cm
Product Weight	26.76 kg
Material	Plastic
Color	White
UPC	850077202339

WARRANTY AND SUPPORT

For detailed warranty information, please refer to the warranty card included with your product or visit the official ECOVACS website. Warranty terms and conditions may vary by region.

For technical support, customer service, or to purchase replacement parts, please visit the ECOVACS support page or contact their customer service directly. Contact information can typically be found on the ECOVACS official website: www.ecovacs.com