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› Segway Navimow H3000N-VF Robot Lawn Mower User Manual

NAVIMOW H3000N-VF

Segway Navimow H3000N-VF Robot Lawn Mower User Manual

Brand: NAVIMOW | Model: H3000N-VF

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, setup, and maintenance of your Segway Navimow H3000N-VF Robot Lawn Mower. Please read this manual thoroughly before using the product and retain it for future reference.



Figure 1.1: The Segway Navimow H3000N-VF Robot Lawn Mower, a smart robotic device designed for automated lawn care.

2. SAFETY INFORMATION

Always prioritize safety when operating the Navimow H3000N-VF. This robotic lawn mower is equipped with multiple built-in safety sensors to enhance secure operation. Adhere to all local regulations and guidelines for robotic lawn mower use.

- Keep hands and feet away from the blades during operation.
- Ensure the mowing area is clear of obstacles, pets, and children before starting.
- Do not operate the mower in heavy rain or extreme weather conditions. The mower is IPX6 waterproof, but extreme conditions should be avoided.
- Perform regular checks and maintenance as described in this manual.



Figure 2.1: The Navimow H3000N-VF is equipped with advanced sensors, including VisionFence, IMU, BladeHalt, Bumper, and Lift sensors, to ensure safe operation and obstacle detection.

3. PACKAGE CONTENTS

Upon unboxing, verify that all components listed below are present and undamaged. If any items are missing or damaged, contact customer support immediately.

- 1 x Segway Navimow Robotic Lawnmower with VisionFence Sensor
- 1 x Power Supply
- 1 x Extension Cable (10 pegs included to secure)
- 1 x Charging Station and Installation Kit
- 1 x GNSS Antenna Kit
- 1 x Antenna Installation Kit
- 12 x Spare Blades and Bolts
- 1 x User Materials Set (including this manual)

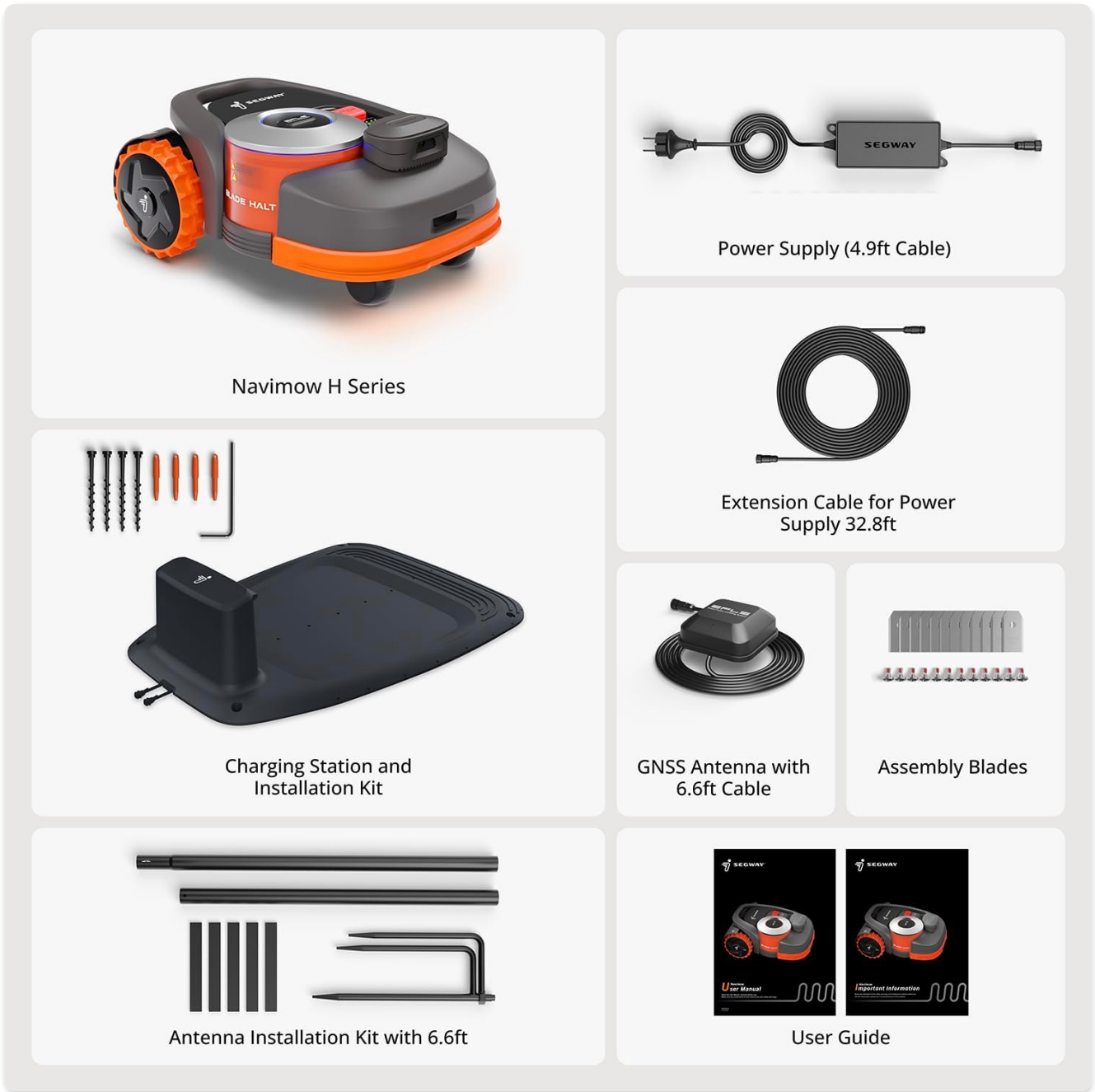


Figure 3.1: Overview of the Segway Navimow H3000N-VF package contents, showing the main unit and all included accessories for setup and operation.

4. SETUP

4.1 Charging Station and GNSS Antenna Installation

Select a suitable location for the charging station, preferably on a flat surface with access to power. Install the GNSS antenna in an open area with a clear view of the sky for optimal satellite signal reception. Use the provided installation kits for secure placement.



Figure 4.1: The Navimow H3000N-VF positioned on its charging station, with the GNSS antenna prominently installed for satellite communication.

4.2 Virtual Boundary and Map Setup

The Navimow H3000N-VF operates without physical perimeter wires. Use the Navimow mobile application to define your virtual boundary. This process involves mapping your lawn area and setting exclusion zones directly within the app. The mower utilizes RTK+Vision integration for precise positioning within these virtual boundaries.

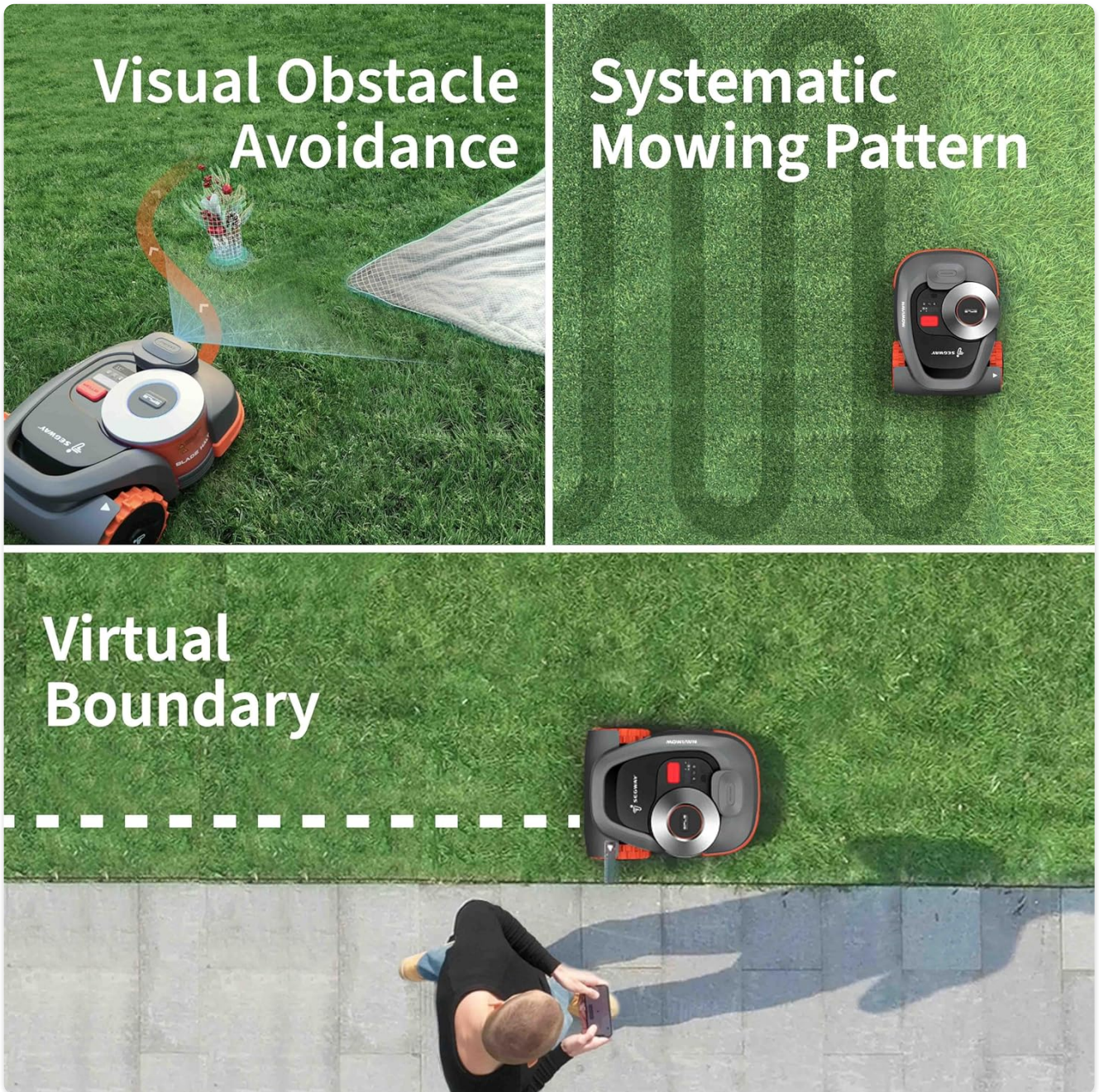


Figure 4.2: Illustration of the virtual boundary setup, where the user defines the mowing area using the mobile application, eliminating the need for physical wires.

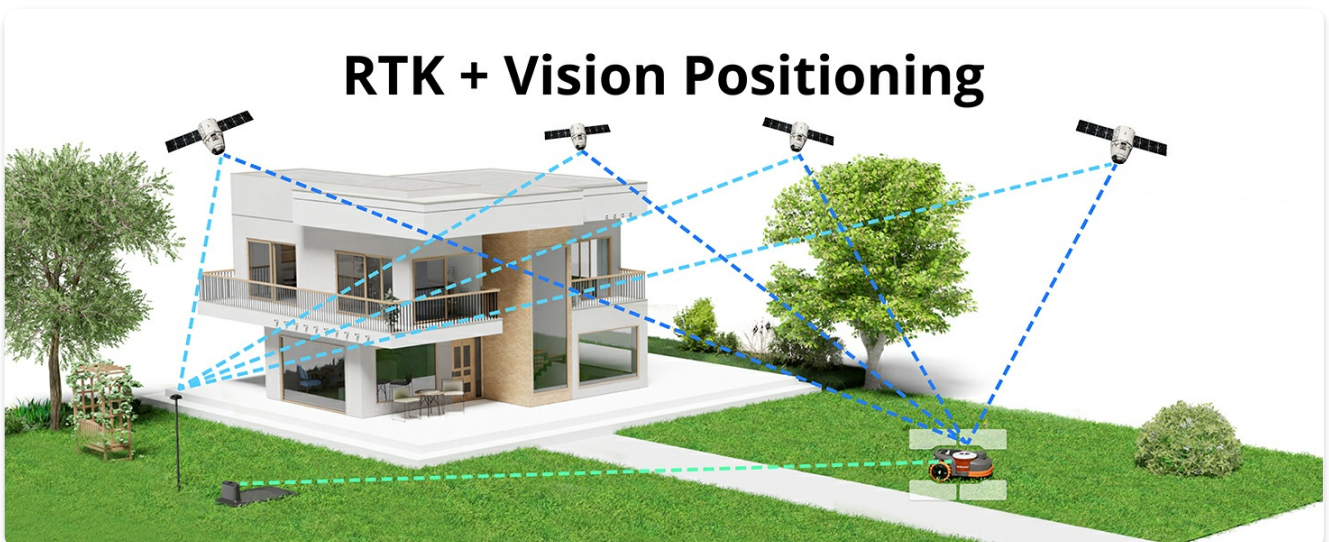


Figure 4.3: The RTK + Vision Positioning system ensures highly accurate location tracking for the Navimow, crucial for maintaining virtual boundaries and systematic mowing.

4.3 App Control and Multi-Zone Management

Download the official Navimow app to your smartphone. The app allows you to edit the mowing map, set different schedules and cutting heights for up to 12 zones, remote control your lawn mower, and track mowing progress. Over-the-air (OTA) updates are also available through the app.

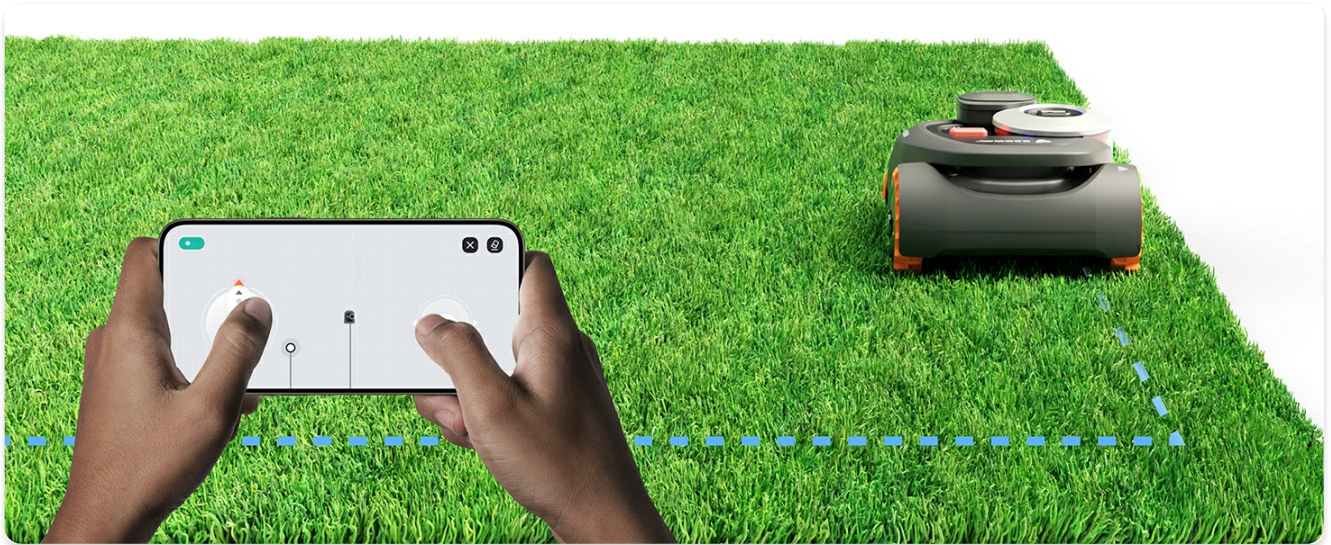


Figure 4.4: The Navimow app provides comprehensive control over the mower, including remote operation and setting parameters for different lawn zones.



Figure 4.5: Multi-zone management allows users to customize mowing schedules and cutting heights for up to 12 distinct areas of their lawn, optimizing lawn care.

5. OPERATION

5.1 Systematic Mowing Pattern

The Navimow H3000N-VF employs a systematic mowing pattern, ensuring efficient and complete coverage of your lawn. It follows a planned path within the defined virtual boundaries, minimizing missed spots and reducing track marks on the lawn.



Figure 5.1: The Navimow's systematic mowing pattern ensures thorough and efficient coverage of the lawn, resulting in a uniform cut.

5.2 Visual Obstacle Avoidance

Equipped with a vision camera, the Navimow can identify and avoid various obstacles, including those protruding from the ground (e.g., flowerpots, footballs) and flat objects (e.g., picnic mats). This enhances safety and prevents damage to the mower and your property.



Figure 5.2: The mower's visual obstacle avoidance system allows it to detect and navigate around common garden items and potential hazards.

5.3 Automatic Return and Anti-Theft

The Navimow H3000N-VF automatically returns to its charging station when its battery is low or when its mowing schedule is complete. For security, if the mower moves outside its virtual boundary, you will receive an alert along with real-time location information in the app, aiding in theft recovery.



Figure 5.3: The Navimow automatically docks with its charging station when needed, ensuring it is always ready for its next mowing task.



Figure 5.4: The anti-theft feature provides real-time alerts and location tracking if the mower leaves its designated virtual boundary.

6. MAINTENANCE

6.1 Cleaning

Regular cleaning of your Navimow H3000N-VF is crucial for its longevity and performance. The mower is IPX6 waterproof, allowing for easy cleaning with water. Ensure the mower is turned off and disconnected from power before cleaning.



Figure 6.1: The IPX6 waterproof rating allows for convenient cleaning of the mower with water, ensuring easy removal of grass clippings and debris.

6.2 Blade Replacement

For optimal cutting performance, inspect the blades regularly and replace them when they show signs of wear or damage. The package includes spare blades and bolts. Refer to the detailed instructions in the user materials set for the blade replacement procedure.



Figure 6.2: The mower features electric cutting height adjustment, and its blades should be regularly checked and replaced for consistent performance.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your Navimow H3000N-VF. For problems not listed here, or if the issue persists, please contact customer support.

Problem	Possible Cause	Solution
Mower not starting	Low battery; Safety switch off; App error	Charge mower; Check safety switch; Restart app/mower
Mower not staying within boundary	Weak GNSS signal; Incorrect virtual boundary setup	Relocate GNSS antenna; Redefine boundary in app
Poor cutting performance	Dull or damaged blades; Excessive grass height	Replace blades; Adjust cutting height; Mow more frequently
Mower stuck or stopping frequently	Obstacle detection; Uneven terrain	Clear obstacles; Adjust mowing path or terrain

8. SPECIFICATIONS

Detailed technical specifications for the Segway Navimow H3000N-VF Robot Lawn Mower:

Brand: NAVIMOW

Model Number: H3000N-VF

Power Source: Battery Powered (1 Lithium Ion battery included)

Material: Cover: ASA, Mower frame: PP

Color: Black, Gray, Orange

Style: Mows up to 0.74 acre

Item Weight: 37.3 Pounds

Cutting Width: 8.3 Inches

Operation Mode: Automatic

Product Dimensions: 23.7"D x 18.4"W x 10.8"H

Maximum Adjustable Cutting Height: 2.4 Inches

Minimum Adjustable Cutting Height: 1.2 Inches

Manufacturer: Navimow B.V.

Noise Level: 54 dB(A) (Ultra-low)

Waterproof Rating: IPX6

9. WARRANTY AND SUPPORT

The Navimow H3000N-VF comes with a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your product or visit the official NAVIMOW website. Please note that Navimow products and affiliated services (app, aftersales, and all other product-related services) are currently only available in the United States.

Customer Support

For technical assistance, troubleshooting, or any product-related inquiries, please contact Navimow customer support. Contact information can be found in your user materials set or on the official NAVIMOW website. Optional protection plans are available for extended coverage:

- 2-Year Protection Plan
- 3-Year Protection Plan

- Complete Protect (monthly subscription)