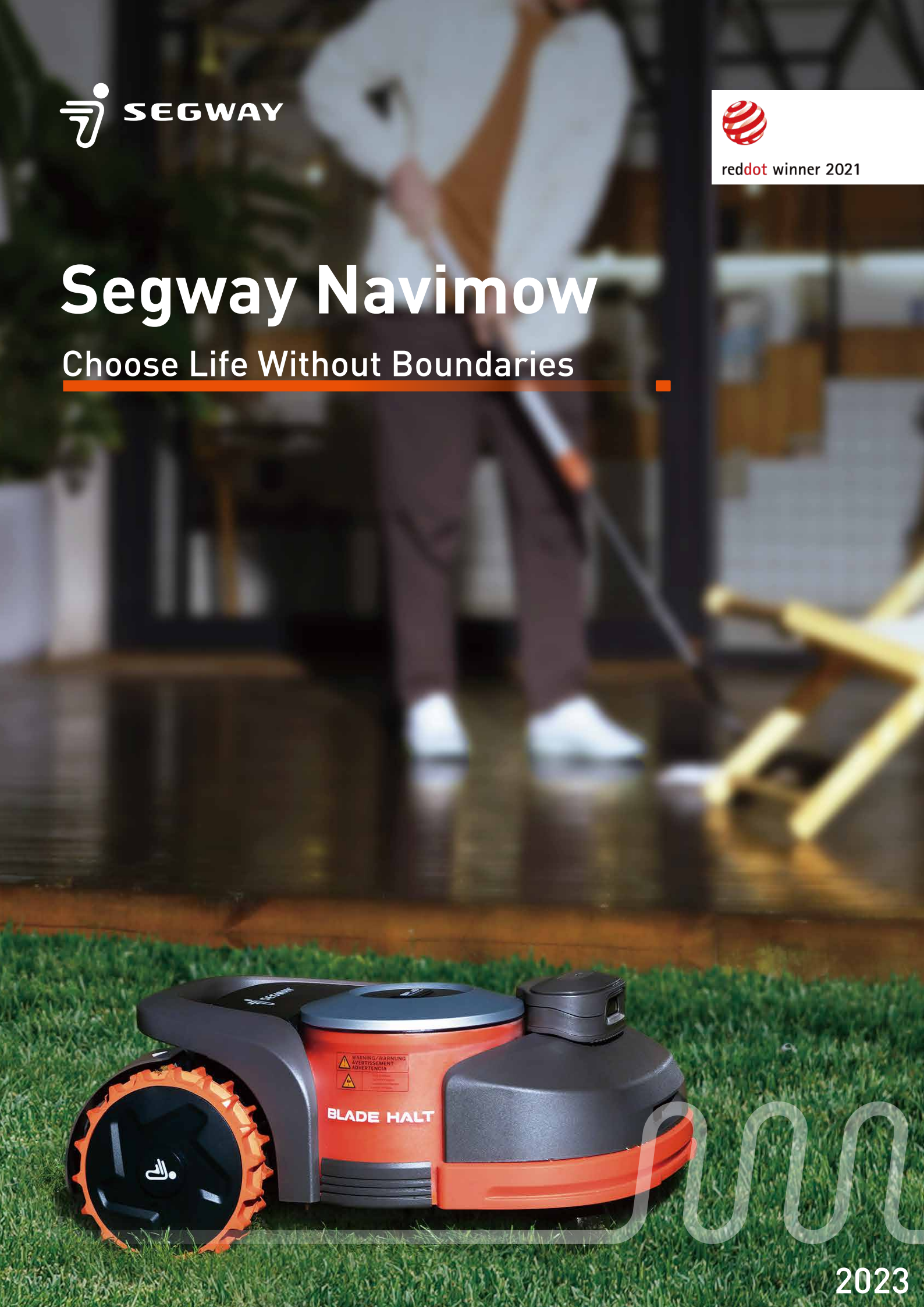
SEGWAY

reddot winner 2021

Segway Navimow

Choose Life Without Boundaries



2023

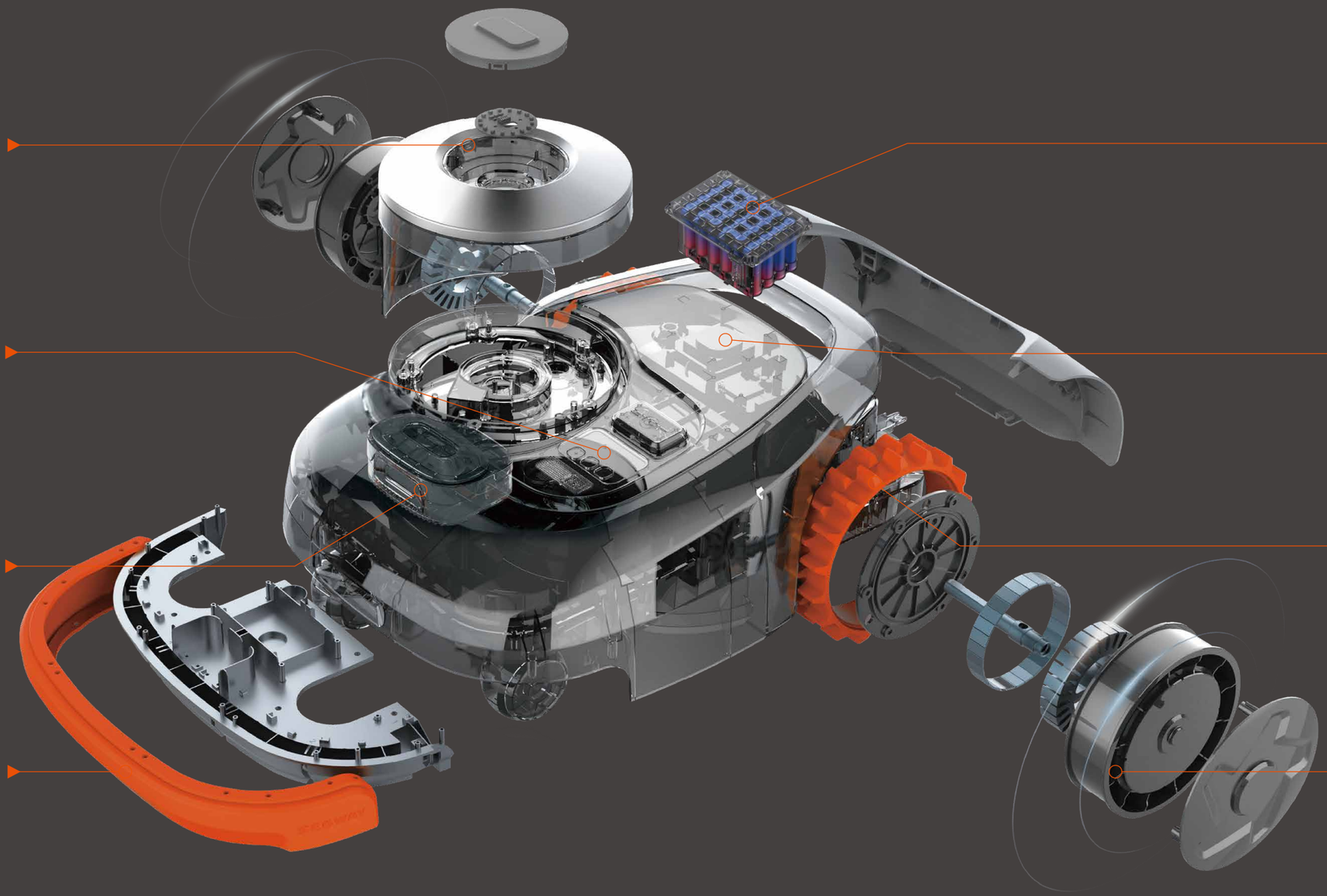
The Future of the Robotic Mower Industry

Find out if Navimow is an ideal fit for your lawn.

In 1999, Segway was established in Bedford, NH, US, and has become a global enterprise in intelligent short-distance transportation and service robots. Segway products currently benefit more than 7.7 million users worldwide.

Navimow robotic mower is Segway's entry into the gardening and outdoor tools industry. Unlike most commercially available mowers, it does not require boundary wires. In addition, centimeter-level precise positioning and systematic mowing pattern increase efficiency and help ensure perfectly manicured lawns.

This revolutionary mower furthers our mission to expand the boundaries of daily life through technology.



BladeHalt Sensor

When the sensor area is touched, the blades stop spinning automatically

Intuitive Control Panel

An easy-to-use interface that shows mowing progress and mower status

VisionFence Sensor

Smart objects detection and avoidance.

Bumper

Reverses and continues in another direction after encountering obstacles

Recommended Mowing Area up to 3000 m²

Battery capacity of up to 10400 mAh

RTK Positioning Module

Global Navigation Satellite System Real-time Kinematic Module

Off-road Rubber Tires

Can handle rough terrain and slopes of up to 45%

Built-in Hub Motor

Generates up to 5 N·m of output torque for strong traversing capabilities

No More Perimeter Wires

With Exact Fusion Locating System (EFLS), Navimow can improve positioning accuracy to eliminate the need for physical perimeter wires. You can easily set a virtual boundary, and make adjustments via the Navimow app. The mower will work efficiently in a planned route within the mapped out area.

Systematic Mowing Pattern

Precise positioning allows the mower to move in a planned path, cutting grass systematically. This significantly improves cutting efficiency and leaves fewer tracks on the lawn.

How Does the Exact Fusion Locating System (EFLS) Work?

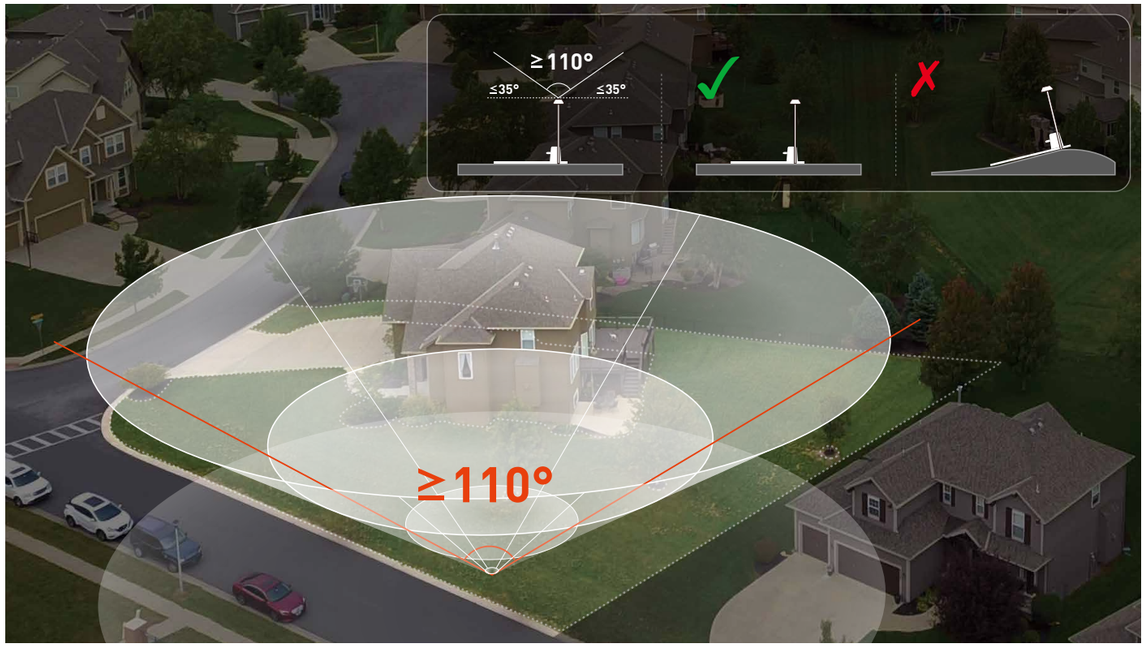
The GNSS base station antenna and the mower can receive the signals from the satellites. Meanwhile, the charging station transmits the signals between the mower and the base station. This simultaneous data analysis minimizes transmission-related errors.

Even so, GPS signals can still get lost because of blockage. The Navimow's system is designed to fuse all the information with devices like the gyroscope, accelerometer, magnetic compass, barometer, and odometer. As a result, the mower can get centimeter-level position accuracy even if the GPS signal is lost temporarily.

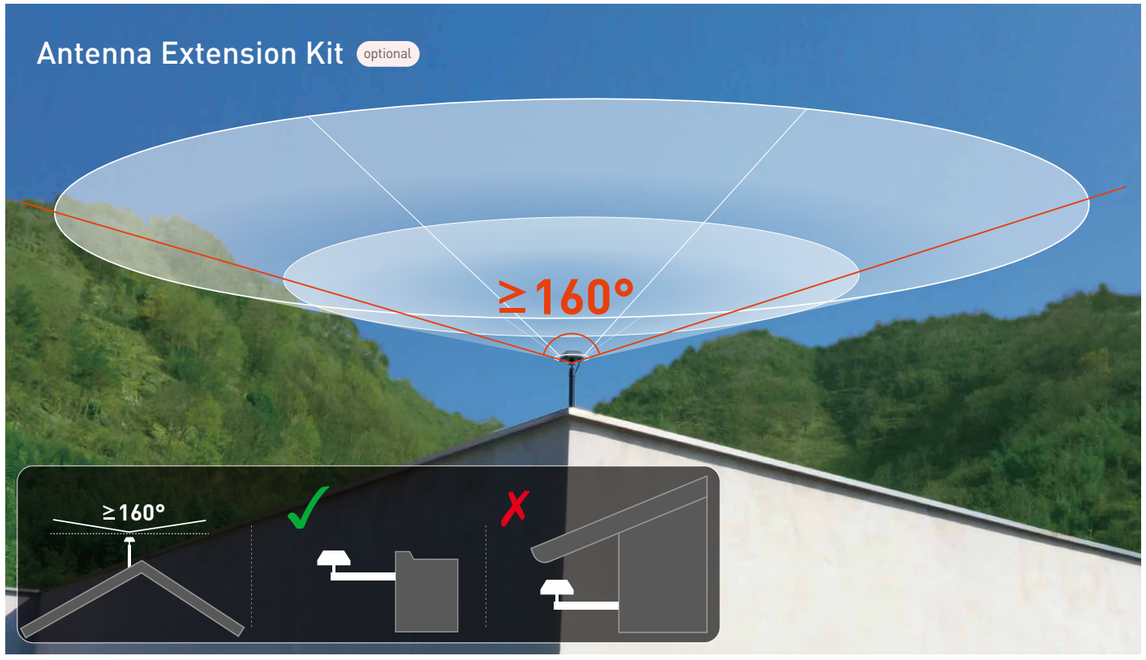
Simply put, EFLS fuses satellite-based positioning with data from multiple sensors, guaranteeing highly accurate positioning. The mower cuts systematically within the virtual boundary mapped out by EFLS, delivering a revolutionary mowing experience.

Install the Charging Station and the Antenna

To ensure strong signal from GNSS, the antenna needs to be installed in an open space with an unobstructed view of at least 110° of the sky.

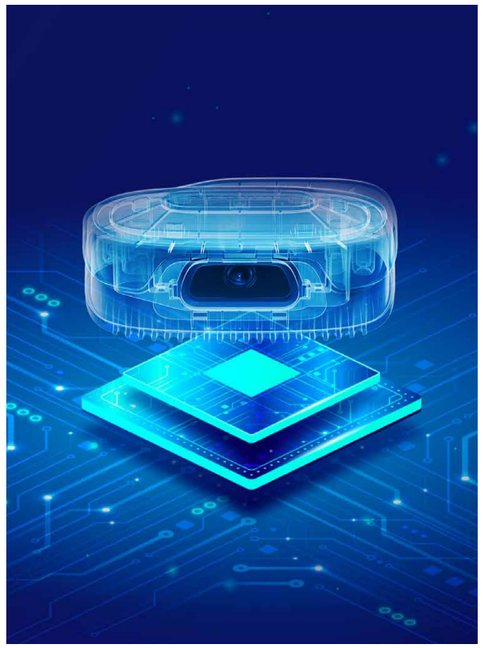


To get better signal, you can purchase the antenna extension kit and install it according to the provided instructions, ensuring an unobstructed sky view of at least 160°.



VisionFence Sensor: New accessory

With AI inside, VisionFence Sensor enables your Navimow to detect various objects and mow even more intelligently.

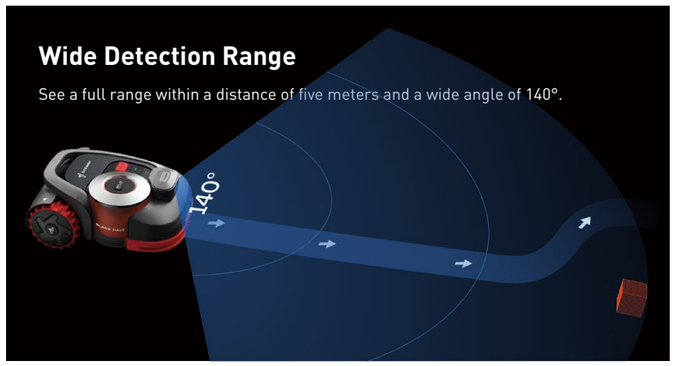


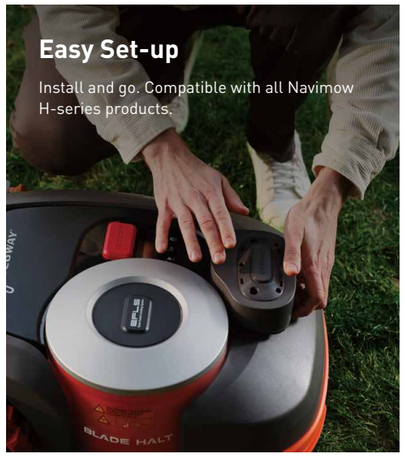
Enhanced obstacle avoidance

Thanks to the advanced visual recognition algorithm, the sensor can recognize obstacles more effectively. With the VisionFence Sensor, Navimow can recognize and actively avoid objects within 1.5 m ahead and larger than 0.1 m in diameter. Consequently, some obstacles, such as trees and flowerpots, can be avoided without being set as off-limit islands.

Adaptable to More Complex Yards

When the satellite signal is weak in areas with challenging layouts, the VisionFence Sensor can identify the lawn's edge and allow Navimow to keep mowing the lawn.



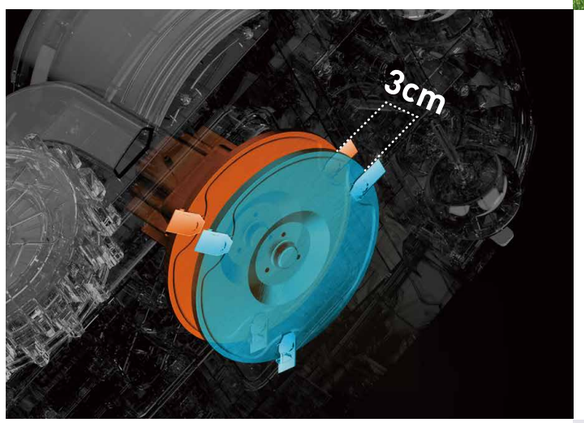


54 dB(A) Ultra-low Noise

Navimow is so far the quietest mower on the market, operating at a noise level just a bit higher than an electric toothbrush. Compared to traditional push and riding mowers, you'll hardly hear it working.

IPX6 Waterproof Level

IPX6 waterproof level ensures powerful protection against heavy sprays of water. You can easily wash it clean with a garden hose.



Electric Cutting Height Adjustment

Navimow is equipped with an electric motor for the blade disk. 7 blade disk height positions available from 30 mm to 60 mm, you can easily adjust it through Navimow app.

Equipped for Complex Terrains

Two hub motors are installed into the wheels to ensure stronger climbing capability. The uniquely designed rubber tires also promise strong grip. Because of this, Navimow can easily handle slopes of up to 45% and handle complex lawns.

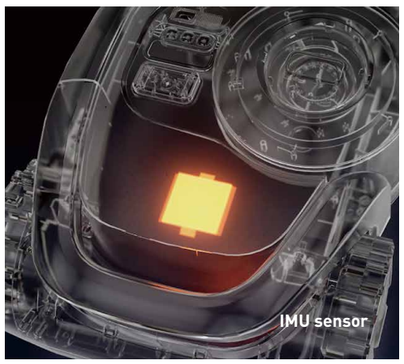
Perfect Lawn Maintenance

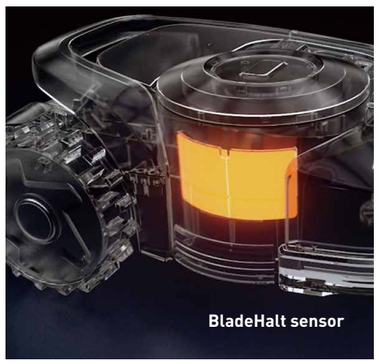
The automatic mowing path optimization system allows Navimow to select the optimal mowing path and automatically change the mowing direction after completing a round of mowing. Avoids the traces left by repeated mowing paths and keeps your lawn in a healthier growth environment.

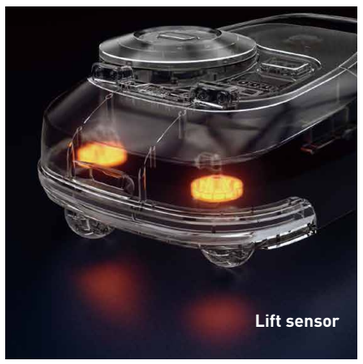
Safer than Ever

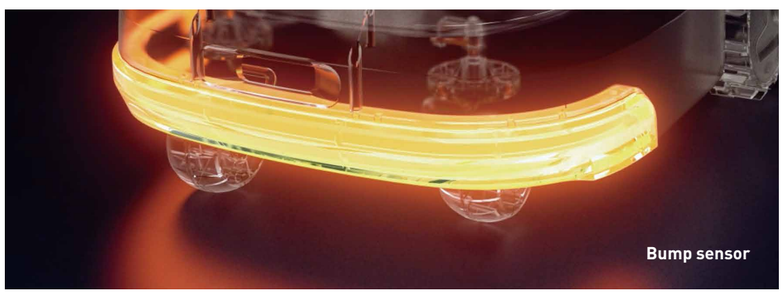
Navimow has multiple built-in safety sensors, including an IMU and Lift sensor for front and rear lifting, and Ultrasonic and Bump sensors for obstacle avoidance. The BladeHalt [1] sensor provides an extra layer of safety, stopping the blades if an object has contact with the sensing area.

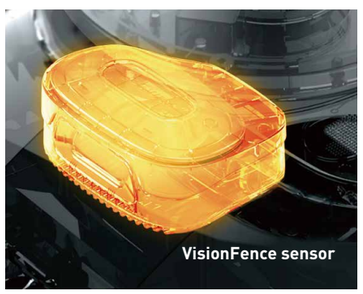
[1] This Lab function needs to be turned on in the app, because some water-rich plants will also trigger bioelectric induction, which may cause false detection. Optimization is in progress.

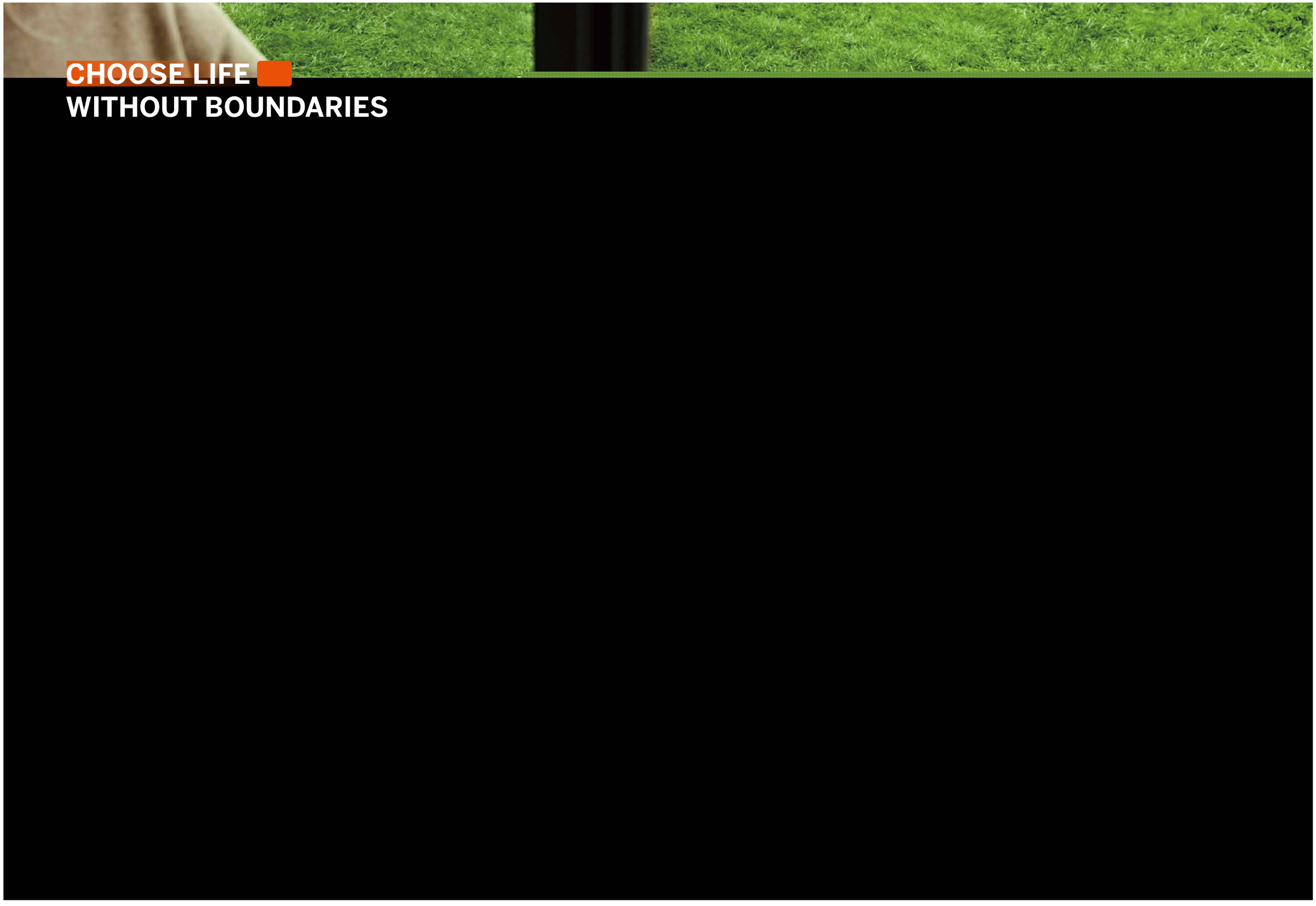











CHOOSE LIFE
WITHOUT BOUNDARIES

BLADE HALT
CHOOSE LIFE
WITHOUT
BOUNDARIES

Notes

CHOOSE LIFE
WITHOUT
BOUNDARIES

SEGWAY

https://navimow.segway.com

Business Inquires: navimow@rlm.segway.com
After-sales Service: support-navimow@rlm.segway.com
Facebook: @Segway Navimow
YouTube: @Segway Navimow6192
LinkedIn: @Segway Navimow

The manufacturer reserves the right to make changes to the product, and update the prices and specifications at any time. Please visit navimow.segway.com for more information.