SEGWAY

NAVIMOW

Segway Navimow Catalogue

Master efficiency
Embrace simplicity

About Navimow

Choose life without boundaries.

Navimow, a subsidiary of Segway-Ninebot, was formerly known as Segway-Ninebot's Home Service Robotics Division and the AI & Robotics Technology Research Institute. Navimow specialises in research, design, manufacturing, and sales of robotic lawn mowers. Navimow aims to become the world's leading robotic lawn mower brand, integrating robotics & artificial intelligence technology into everyday life.

Navimow is currently available in more than 30 countries across Europe, North America and Oceania. Navimow operates a total of 7 branch offices across the globe, including Amsterdam, Boston, Dusseldorf, Frankfurt, Beijing, Changzhou and Shenzhen.

Our Awards

Forbes

Computer Bild

BBC Gardeners' World

Good Housekeeping

Contents

Technology and Products

Efficient Systematic Mowing

Centimetre-level outdoor positioning through RTK and Exact Fusion Location System (EFLS) technology, cover every corner of your garden. Automatically operate accurate and efficient planned mowing.

Handle Various Terrains and Environments

Climbing capability up to 27˚ / 50%, handle various lawn and garden scenarios. Unmatched durability with IP66 protection and UV durable material.

APP

Personalised Smart Mowing Experience

Name your Navimow, build a customised mowing plan for each part of your lawn, and have a personalised finish with our doodle feature.

Mow Smarter with Smart Home

Real-time status view and stay in control*. Easy voice control with Alexa and Google Home.

*Internet connection required.
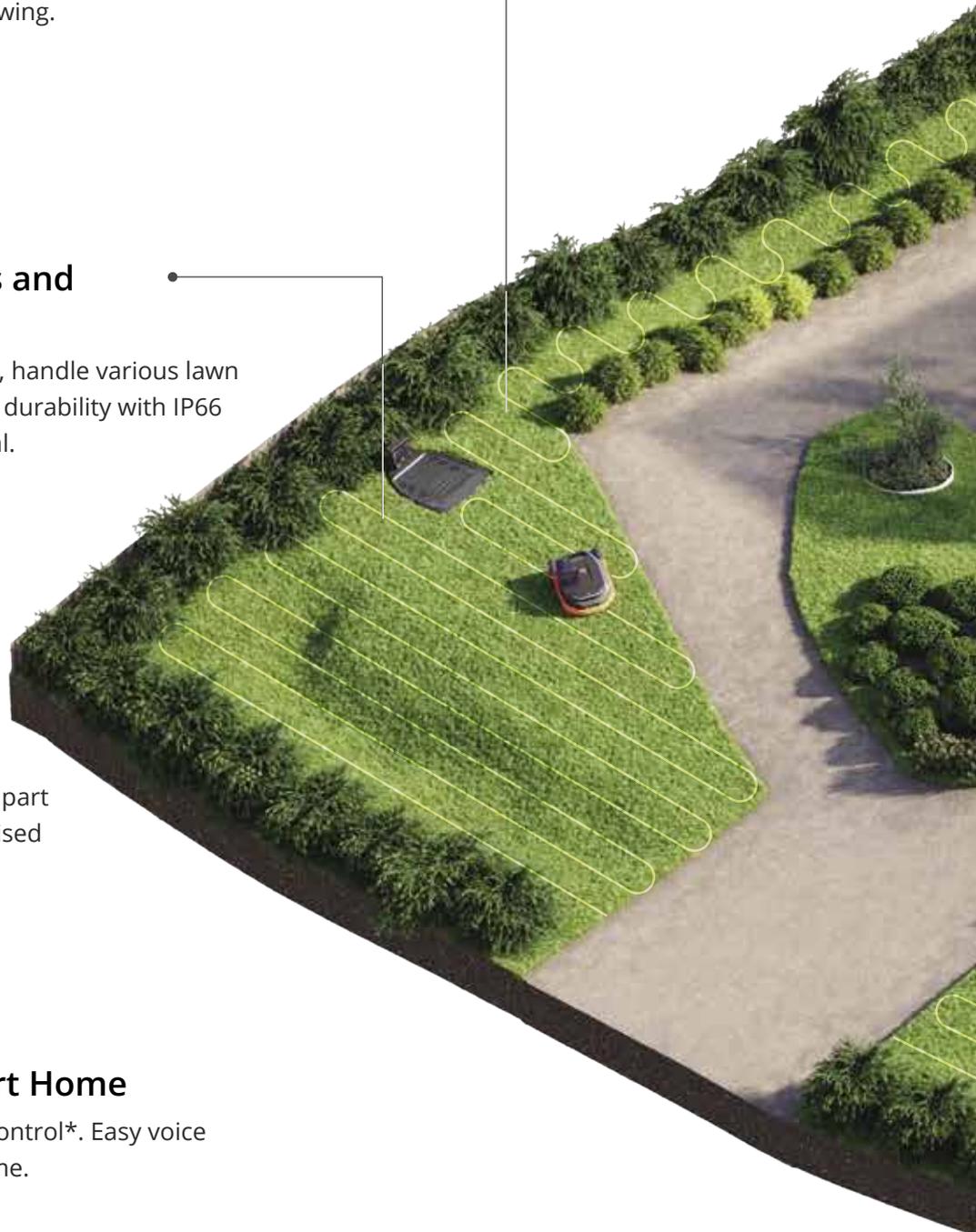
Quiet and Eco-friendly

Ultra quiet operation, lower than 60 dB(A). Zero emission, powered by Li-ion battery.

No Wiring Required, Easy Setup

No need for complicated wire installation. Set up a Navimow in just 3 simple steps within 1 hour.

More Considerate, More User-Friendly

Precise obstacle avoidance, GPS tracking and child lock for enhanced safety. Interactive in-app guidance for simple setup and operation.

Segway Navimow X3 Series

Efficient and effortless lawn care solution for 1,500–10,000 m^2
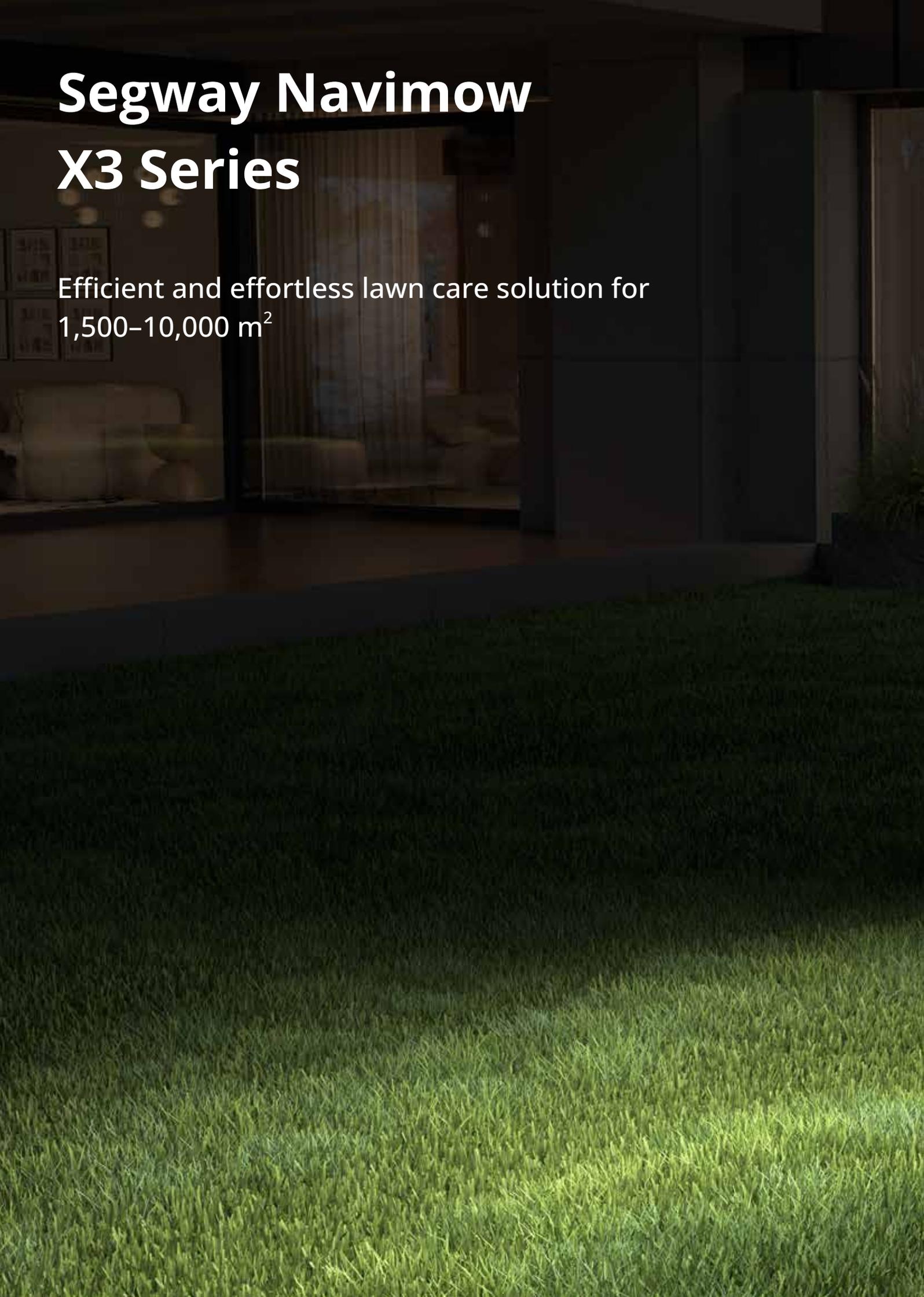
Segway Navimow X3 Series

Dot Matrix Screen

This provides a much better user interaction making it easier to understand the complex tasks the mower is performing.

Built-in Hub Motor

Motor power increased by 25% for enhanced performance. This enhances the mower's ability to handle more challenging conditions.

Left, Right, and Front Camera Sensors

Industry leading 300° camera system provides far superior object detection and EFLS 3.0 positioning enhancement.

RTK Module

The in-house designed RTK Module supports 3-frequency RTK, offering superior performance with a 40% improvement in efficiency.

Headlight

Night-time illumination.

Bumper

Protection over collision.

Blades

The newly-developed 6 blade disc has anti-clogging features, which ensure a better and consistent cut with less time needed for cleaning.

EFLS 3.0: Precision Positioning, Extended Signal Coverage

EFLS 3.0, featuring major upgrades in RTK coverage, VSLAM (Visual Simultaneous Localisation and Mapping), and VIO (Visual Inertial Odometry) technology. This state-of-the-art system ensures unparalleled stability and precision, even in challenging signal environments. Supports dual RTK signals with an upgrade to triple-frequency observation for extended coverage. With enhanced RTK capabilities and superior VSLAM performance, the EFLS 3.0 delivers exceptional accuracy and reliability for flawless operation in complex settings.

Unrivalled Precision with Upgraded RTK System and 300-Degree Visual Assistance

The Segway Navimow X3 Series features a revolutionary upgrade with its RTK system. This technology significantly boosts satellite observational capacity by 40% * and enhances RTK performance and accuracy. The Segway Navimow X3 Series also integrates industry-leading 300˚ wide-angle visual assistance. This combination supplies an unmatched level of precision, ensuring your lawn is maintained with the highest level of accuracy even in complex settings.

* Based on internal laboratory testing, the satellite observation capacity increases by 40% compared to the previous solution.

VisionFence: AI-Powered Obstacle Avoidance

Upgraded VisionFence technology empowers the Segway Navimow X3 Series with an unprecedented 300˚ field of view and efficient AI route planning that enables unmatched highly reliable obstacle avoidance. This is done by utilising 4 cameras, 1 on the left, 1 on the right & then 2 on the front, one of these being 3D with a TOF (time of flight) sensor, coupled with Ai to make it our smartest robot yet.
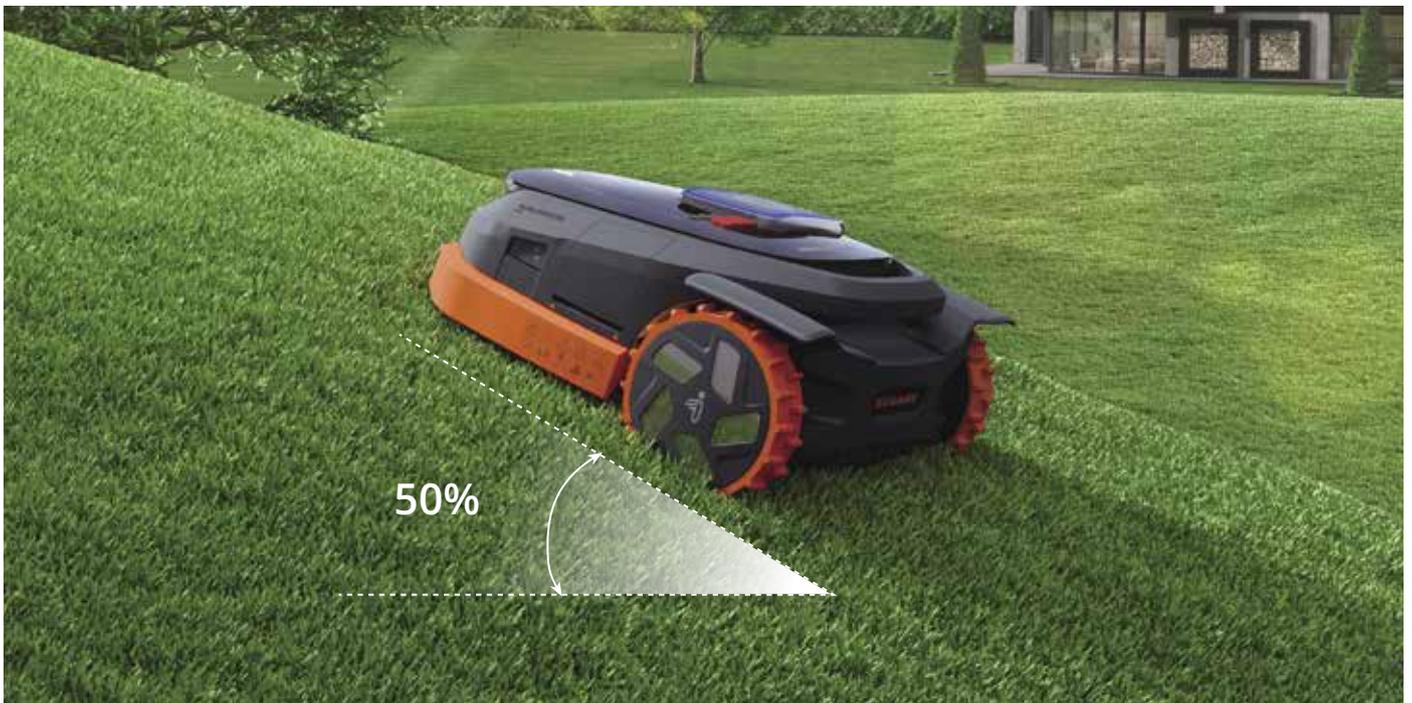
Easily Handles Slopes up to 50%

Our superior design conquers even the most challenging terrains with ease, and can easily handle slopes up to 27˚ / 50% for more versatile performance.

Wire-Free, Worry-Free Setup

Easily connect and control your robotic mower with the Navimow app. With AI Assist Mapping, your X3 series mower can automatically navigate and map your entire work area, making setup a breeze. Just a few taps allow you to establish virtual boundaries, mark off-limit areas, and create safe channels to connect multiple zones.

Fast Setup with Intelligent Site Selection

Our unique Antenna Location Finder simplifies setup by analysing RTK positioning and signal strength to recommend optimal locations for your charging dock and antenna base. This ensures reliable docking, minimal signal issues, and a more hassle-free overall experience.

Ultra-Quiet Operation: Lawn Care Without the Noise

Ultra-quiet operation reduces mowing noise to just 60 dB(A)—as quiet as a home air conditioner and half that of fuel-powered mowers. Maintain a pristine lawn without disturbing family or neighbours, and enjoy a high-quality mowing experience that's both easy to manage and surprisingly quiet.

Theft

GPS Tracking

Extra Compartment
for GPS Tracker

Unmatched Security

The X3 offers four advanced security features, including outside-of-boundary alarms and lift alerts, to help ensure your mower stays safe. GPS tracking allows you to easily find your mower's location using the Navimow app, and secret compartments even allow storage of additional GPS trackers. Enjoy worry-free lawn care knowing your mower is secure and easily locatable.

Mow with Voice Commands

Take convenience to the next level with Alexa and Google Home voice control, allowing you to manage your mowing with simple voice commands. Whether it's starting, stopping, or scheduling, this seamless integration into your smart home system lets you enjoy a smarter, more efficient lawn care experience.

Segway Navimow
i Series

Best smart mowing solution for
lawns under 800 m^2
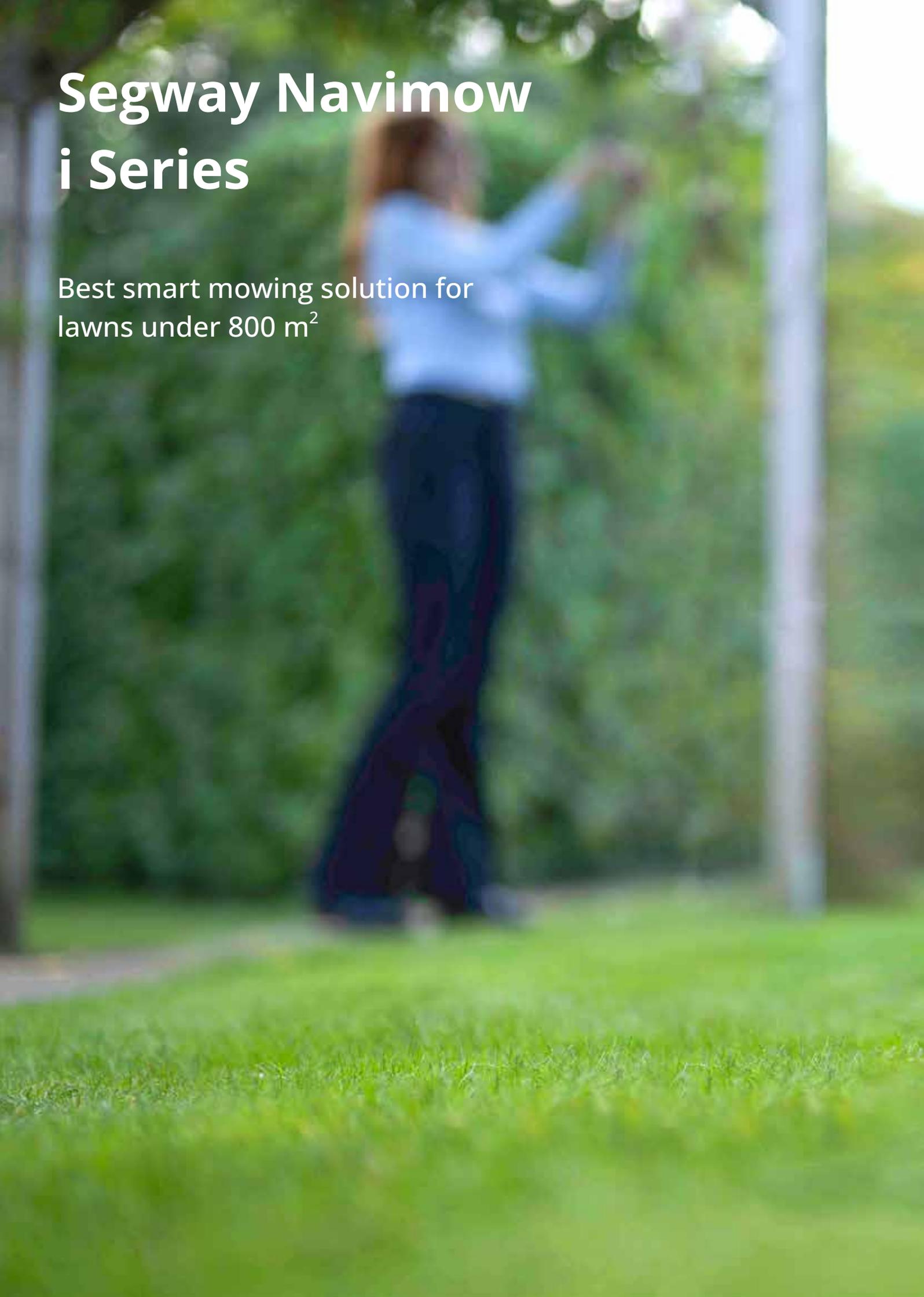
Segway Navimow i Series

Full Connection

4G*, Wi-Fi and Bluetooth connectivity.

* Accessory (Navimow Access+) required.
Sold separately.

Adjustable Cutting Height

Cutting height adjustable from 20 - 60 mm.

Large Wheel

Large front wheels with a diameter of 24.5 cm, powerful traversing performance ensures smooth and stable movement.

Ultra-low Noise

Operates at just 58 dB (A).

EFLS 2.0

Enhanced with visual recognition, stable centimetre-level positioning for diverse lawn layouts.

Clear Indication

Easy-to-read status updates on a digital display screen, along with LED lights and sound cues.

Simple Control

Intuitive and easy-to-use control panel.

Easy to Wash and Clean

IP66 protection level ensures easy cleaning with a garden hose.

Easy Lift

Hidden handle for easy lift.
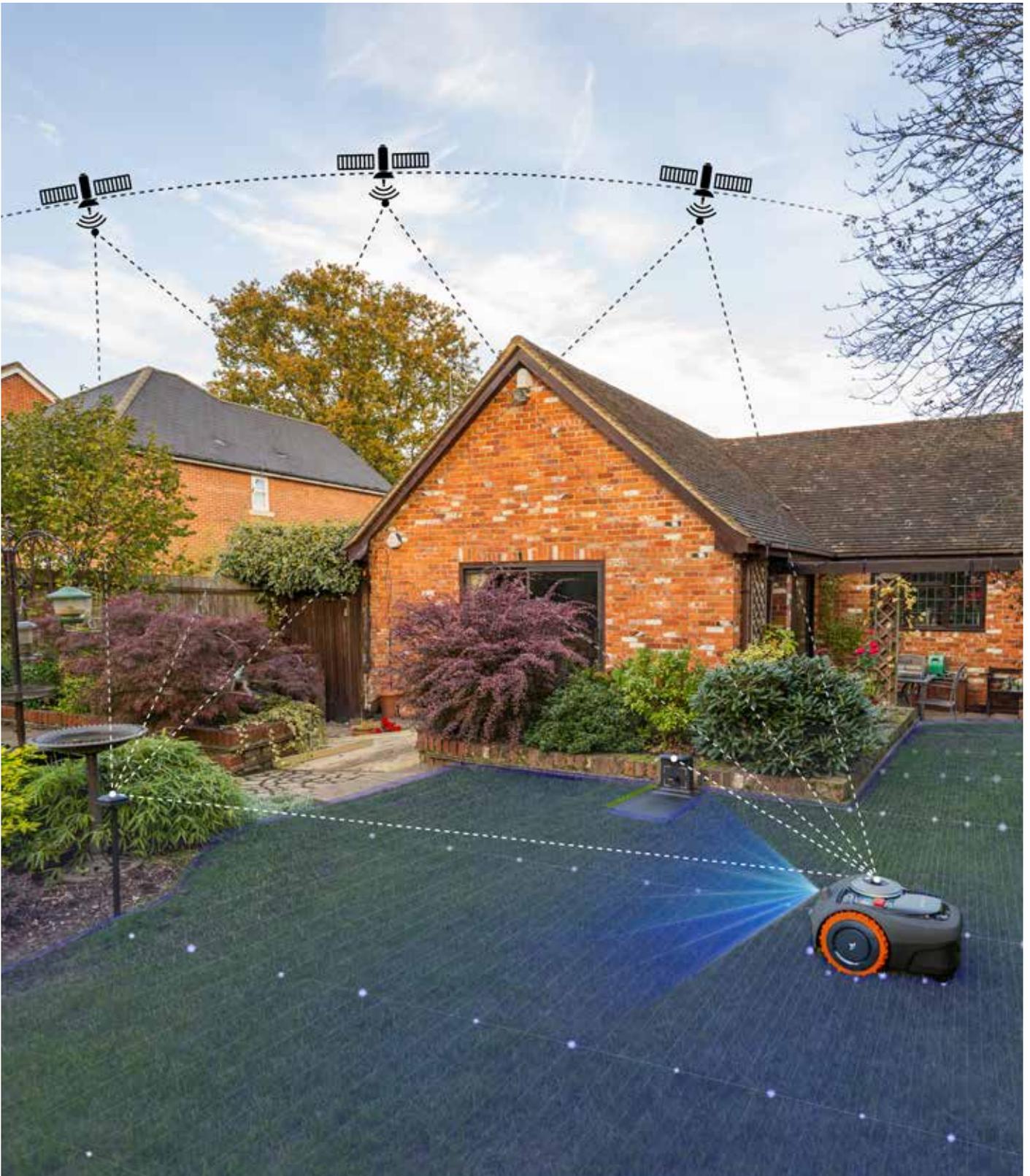
EFLS 2.0: Vision-enhanced with Centimetre-level Precision

EFLS 2.0 elevates positioning accuracy with Visual SLAM (Simultaneous Localisation and Mapping) technology, allowing the camera to create 3D maps and improve positioning in low-satellite-signal areas. Whether for large or small, simple or complex lawns, EFLS 2.0 consistently provides precise, reliable, and centimetre-level accuracy.
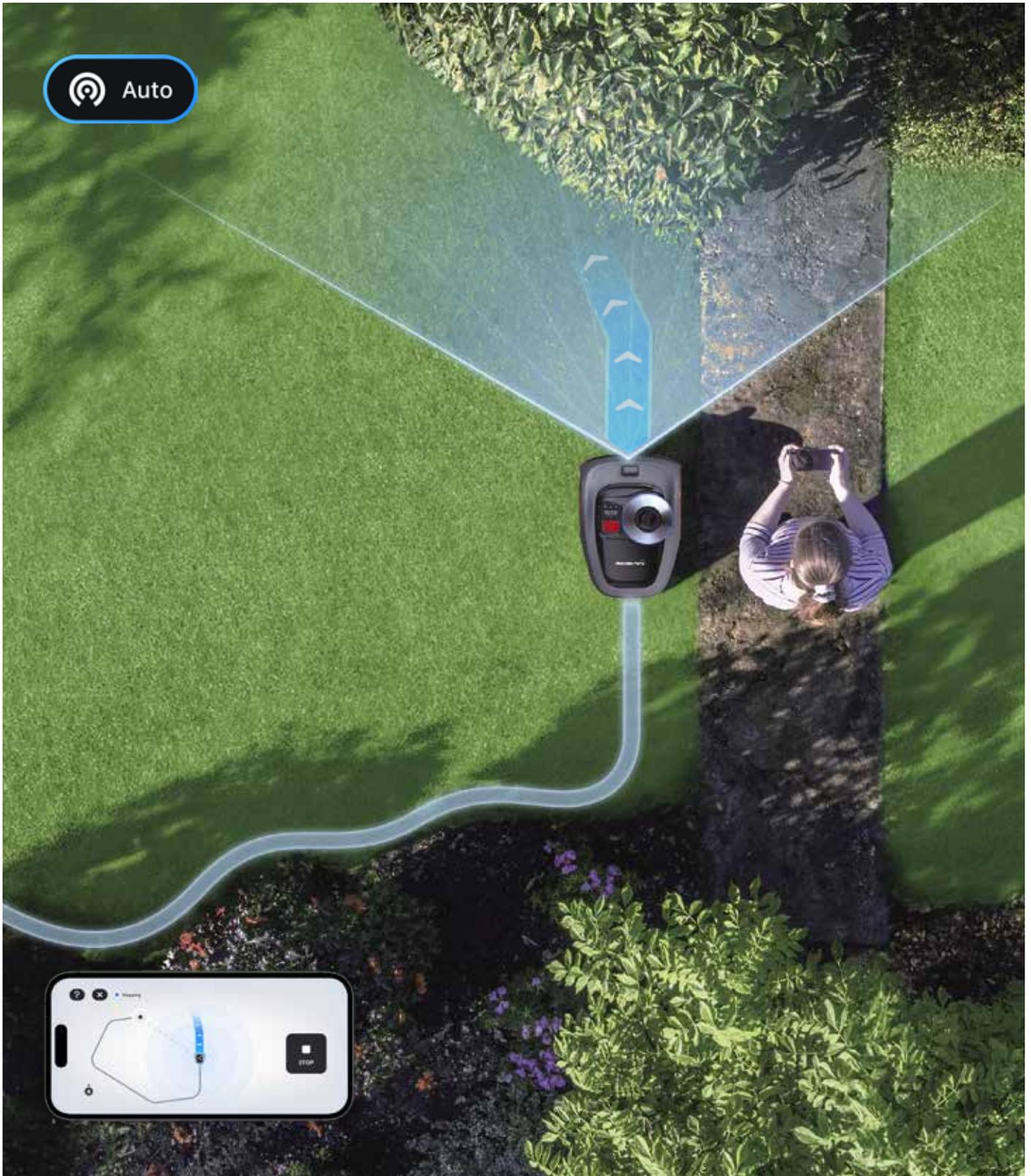
Effortless mapping with AI

With the in-house developed AI-powered Assist Mapping feature*, Navimow identifies the clear edges of your lawn during mapping and automatically navigates and maps the entire working area. It's that simple.

 * This feature is unavailable while adding off-limit islands and channels. Use with caution in areas with low light, unclear lawn boundaries, and height differences at the boundaries that may cause the mower to tilt or fall over.

Enhanced Edge Mowing, Delivering a Perfect Lawn Finish

Standard Boundary: The default standard boundary mowing mode cuts close to the edge while maintaining a safe buffer distance, meeting most mowing requirements with ease.

Ride-on Boundary: When switched to ride-on mode, the mower will straddle the path, cutting all the way to the edge, delivering a pristine, ultra-clean finish. With enhanced edge mowing, it leaves minimal grass along the edges for a flawless result.

AI-Enhanced Obstacle Avoidance for Worry-free Mowing

With a 140° fish-eye camera and AI algorithms, it distinguishes grass from over 150 common obstacles like pets, furniture, and outdoor equipment, keeping mowing safe and worry-free.

Identifies 150+ Obstacles

Ground Lights	People	Automobiles	Slides	Toys	Goals	Footballs	Cats/Dogs
Manhole Covers	Pavements	Kerbs	Hand Tools	Molehills	Bushes	Fences	Flower Pots
Picnic Blankets	Grills	Robot Garages	Chairs	Trampolines	Cylinders	. . . .	
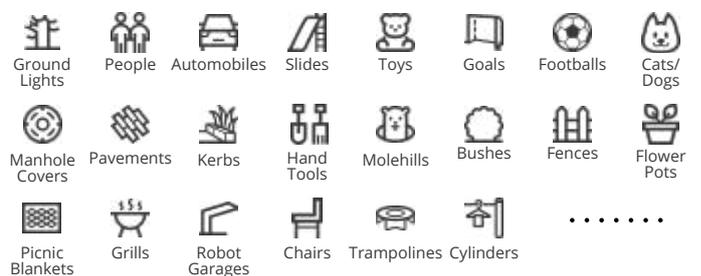
Masters Complex Terrain with Greater Traction and Stability

The front-wheel-drive design paired with 24.5 cm diameter large wheels, delivers exceptional obstacle crossing capability and an impressive 30% incline climbing capability. The first robotic mower equipped with advanced off-road–vehicle grade traction control technology, delivering superior grip while minimising any turf damage from skidding.

Surprisingly Quiet Mowing at Just 58 dB(A)

Low-noise mowing has arrived. Whether it's early in the morning or late in the evening, this surprisingly quiet robotic mower is ready to get the job done without disturbing you or your neighbours.

uknavimow.com

Segway Navimow
H Series

Our first wireless
mowing robot

Segway Navimow H Series

RTK Positioning Module

Global Navigation Satellite System Real-time Kinematic Module.

Built-in Hub Motor

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

Off-road Rubber Tyres

Can handle rough terrain and slopes up to 45%.

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 around the obstacle after encountering obstacles.

Recommended Mowing Area up to 1500 m^2
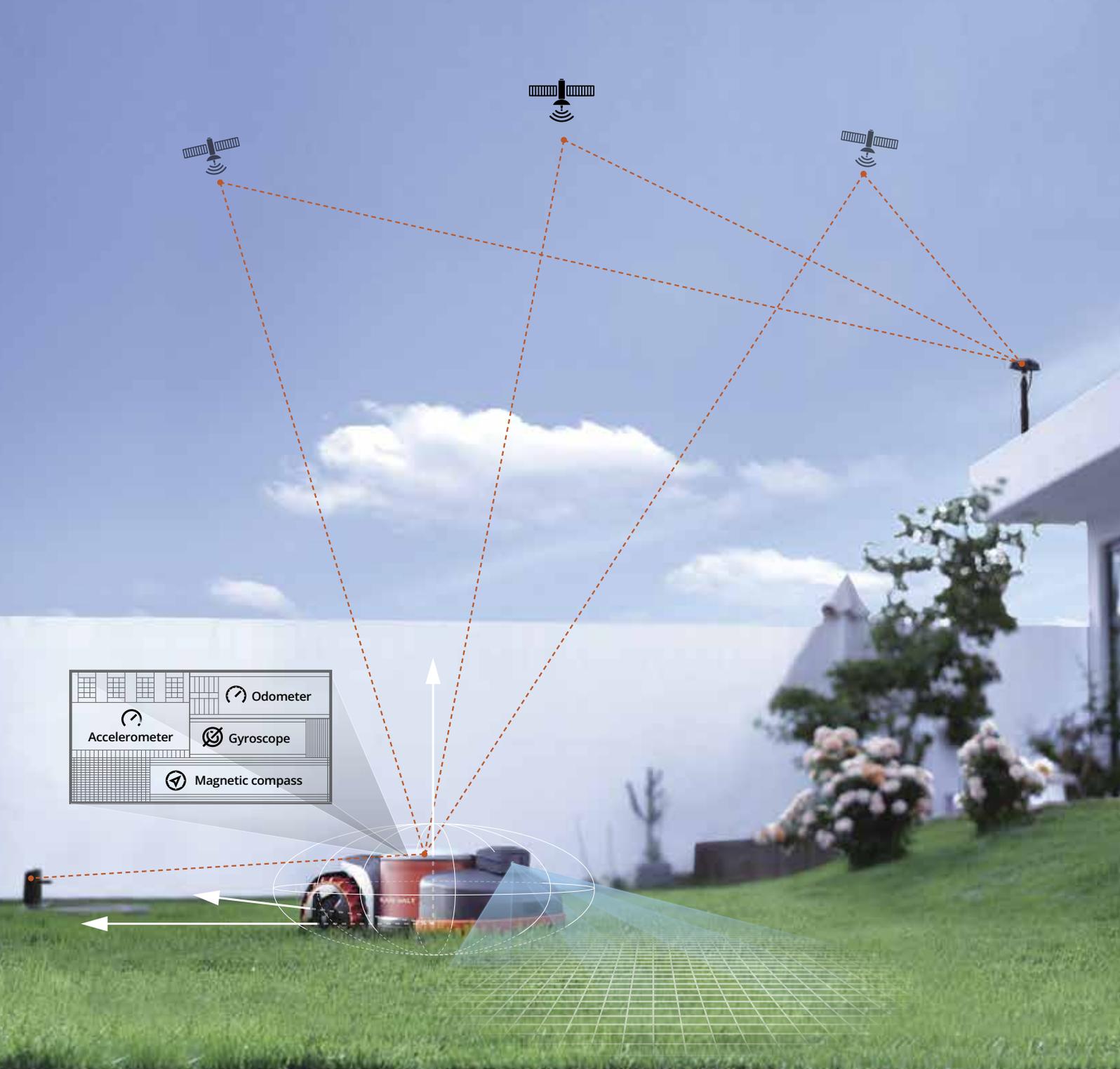
How Does the Exact Fusion Locating System (EFLS) Work?

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 minimises 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 centimetre-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. All EFLS systems are developed in-house to work in harmony with the satellites & the RTK antenna.

VisionFence Sensor

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

Enhanced Obstacle Avoidance

With the VisionFence Sensor, Navimow can recognise 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.

Equipped for Complex Terrains

Two hub motors are installed into the wheels to ensure stronger climbing capability. The uniquely designed rubber tyres also give a strong grip. Because of this, Navimow can easily handle slopes up to 24˚/ 45% and complex lawns.

45%

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.

IP66 Protection Level

IP66 protection level ensures powerful protection against heavy sprays of water. You can easily wash it clean with a garden hose.
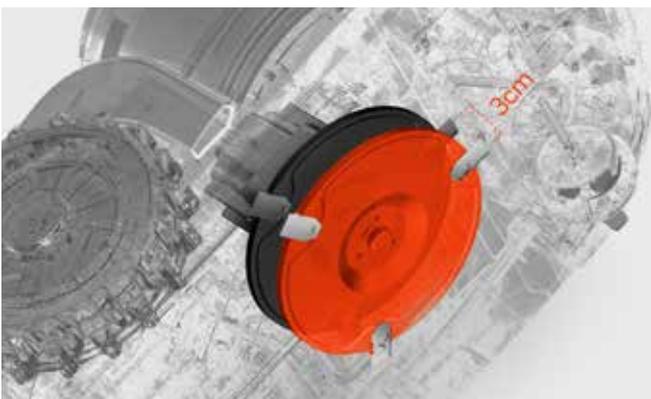
Electric Cutting Height Adjustment

Easily adjust cutting height with a single tap in the app. Combined with the Multi-zone management feature, you can set the most ideal cutting height for each part of your lawn.

Perfect Lawn Maintenance

The automatic mowing path optimisation 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.
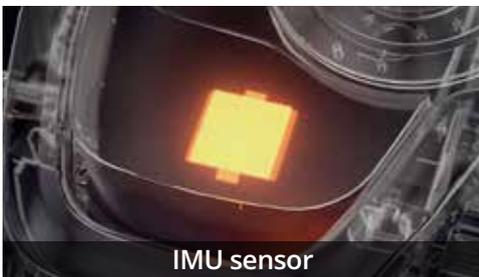
IMU sensor
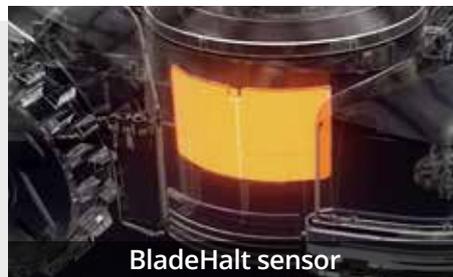
BladeHalt sensor
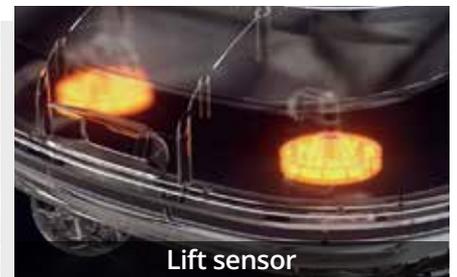
Lift sensor

Bumper sensor
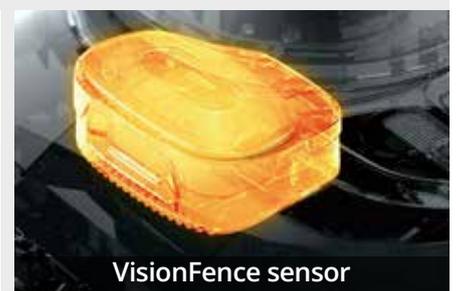
VisionFence sensor

Safer than Ever

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

*：This function needs to be turned on in the app, because some water-rich plants will also trigger bioelectric induction, which may cause false detection.

Technology and Products

2025 X3 Series

The X3 Series, launched in 2025, builds upon the first two generations and is optimised for efficient lawn mowing on larger areas, enhancing both mowing efficiency and performance, showcasing exceptional capabilities. With the very latest in technology, combining cameras & Ai to achieve the best mowing performance.

2024 i Series

In 2024, Navimow introduced its second-generation product, the i Series, designed for small-sized gardens, catering to the needs of different users.

2021 H Series

Navimow launched its first robotic lawn mower, the H Series, in 2021, marking a significant breakthrough for the brand in the smart home sector.

All Navimow products embody the concept of boundary-breaking, integrating RTK and visual technologies to provide users with a more effortless and efficient mowing experience.

Handles Larger Areas (up to 10,000 m^2) with Enhanced Efficiency, More Precise Positioning, and Smarter Objective Identification

VisionFence in X3 Series

300˚ industry-leading FOV and Efficient AI Route Planning

EFLS 3.0

Upgraded RTK Positioning System with 300˚ VSLAM and VIO Technology

Easy Operation

- No Buried Wires
- Ultra-Efficient Route Planning + AI-Assisted Mapping Smart Home Voice Control
- Smart Home Voice Control
- Intelligent Antenna and Garage Location Selecting
- Increased multi-zone management, with higher level of control.

All-Scenario Vision-Enhanced RTK System

VisionFence in i Series

AI-Enabled Obstacle Detection and Avoidance (identifies 150 objects)

EFLS 2.0

150˚ Vision-Enhanced RTK Positioning System

Easy Operation

- No Buried Wires
- Ultra-Efficient Route Planning + AI-Assisted Mapping
- Intelligent Antenna and Garage Location Selecting
- Multi-zone customisation

No Perimeter Wires

VisionFence

AI-Enabled Obstacle Detection and Avoidance

EFLS 1.0

RTK Positioning System

Easy Operation

- No Buried Wires
- Ultra-Efficient Route Planning
- Multi-zone customisation

Accessories

New

Compatible models: **H, i, X3**

Antenna Mounting Kit (X3A01E)

180° adjustable, adapts to all roof types, made to endure outdoor conditions

Package contents:
Expansion tube x 4, self-tapping screw x 4, fastening screw x 2, screw x 1, installation base x1, mounting pole x 1

Compatible models: **H, i**

Antenna Extension Kit (HA001)

180° adjustable, adapts to all roof types, made to endure outdoor conditions

Package contents:
Installation base × 1, centre column × 1, extension cable (10 m) × 1 , expansion tube × 4, self-tapping screw × 4

Compatible models: **H, i**

Antenna Extension Cable (HA103)

Extra antenna extension cable for antenna installation on the wall or roof

Package contents:
Extension cable (10 m) × 1

Compatible models: **X3**

Antenna Extension Cable (X3A02E)

Extra antenna extension cable for antenna installation on the wall or roof

Package contents:
Extension cable (10 m) × 1

New

Compatible models: **H, i, X3**

Blade Assembly Plus (X3A06E)

Durable blades ensure powerful cuts

Package contents:
Blade × 12, Screw × 15

Compatible models: **H, i**

Blade Assembly (HA002E)

Easy blade replacement for the whole year

Package contents:
Blade × 12, Screw × 12

Compatible models: **i**

Navimow Access+ (I1A10E)

For 4G connectivity and anti-theft.

Package contents:
Navimow Access+, Allen wrench (2.5 mm) × 1

New

Compatible models: **X3**

Signal Enhancement Antenna (X3A11E)

Used with your primary antenna to expand signal coverage

Package contents:
Antenna × 1, antenna rod × 1, antenna tube × 1, antenna pole × 1, base fork × 1, power supply adapter × 1, loop tape × 3, pin × 1, screw × 1

New

Compatible models: **X3**

Power Supply Adapter for Original Antenna (X3A13E)

For installing the antenna far away from the charging station

Package contents:
Power supply adapter × 1

Compatible models: **i**

Garage S (I1A02E)

Protects your Navimow from sun and rain

Package contents:
Garage S × 1, Allen wrench (4 mm) × 1, Allen wrench (6 mm) × 1, Screw × 8, Bolt × 4, Fastener × 2

Compatible models: **H**

Garage M (H1A00E)

Protects your Navimow from sun and rain

Package contents:
Garage M × 1, Allen wrench (4 mm) × 1, Allen wrench (6 mm) × 1, Screw × 8, Bolt × 4, Fastener × 2

New

Compatible models: **X3**

Garage L (X3A00E)

Protects your Navimow from sun and rain

Package contents:
Garage L × 1, Allen wrench (4 mm) × 1, Allen wrench (6 mm) × 1, Screw × 8, Bolt × 4, Fastener × 2

Technical Specification

Model Name	X315	X330	X350	X390
Recommended Mowing Area	1500 m^2	3000 m^2	5000 m^2	10000 m^2
Dimensions	698 x 550 x 307 mm	698 x 550 x 307 mm	698 x 550 x 307 mm	698 x 550 x 307 mm
Weight	19.6 kg	19.8 kg	19.8 kg	19.9 kg
Systematic Mowing	Yes	Yes	Yes	Yes
Cutting Height	20 - 70 mm	20 - 70 mm	20 - 70 mm	20 - 70 mm
Blade Adjustment Method	Auto	Auto	Auto	Auto
Cutting Width	23.7 cm	23.7 cm	23.7 cm	23.7 cm
Number of Blades	6	6	6	6
Maximum Slope Ability	27˚ / 50%	27˚ / 50%	27˚ / 50%	27˚ / 50%
Maximum Slope Performance at Boundary	25%	25%	25%	25%
Battery Capacity	6 Ah	8 Ah	10 Ah	12.8 Ah
Charging Time	60 min	65 min	80 min	100 min
Maximum Mowing Speed	0.8 m/s	0.8 m/s	1.0 m/s	1.0 m/s
Full Charge Mowing Time	120 min	160 min	200 min	240 min
Continuous Mowing Area per Day	4000 m^2	4500 m^2	5500 m^2	5500 m^2
Locating System	EFLS 3.0	EFLS 3.0	EFLS 3.0	EFLS 3.0
Object Detection System	300° RGB+ToF	300° RGB+ToF	300° RGB+ToF	300° RGB+ToF
Driving Engine	Rear-wheel drive	Rear-wheel drive	Rear-wheel drive	Rear-wheel drive
Noise Level	60 dB(A)	60 dB(A)	60 dB(A)	60 dB(A)
Supports Expansion Accessories	Yes	Yes	Yes	Yes
Protection Level	IP66	IP66	IP66	IP66
Weather Resilient	Self-adaptive	Self-adaptive	Self-adaptive	Self-adaptive
Auto-Recharge	Yes	Yes	Yes	Yes
Smart Home Integration	Alexa & Google Home	Alexa & Google Home	Alexa & Google Home	Alexa & Google Home
Connectivity (Bluetooth & Wi-Fi & 4G)	Bluetooth & Wi-Fi & 4G (1 Year Free)	Bluetooth & Wi-Fi & 4G (2 Years Free)	Bluetooth & Wi-Fi & 4G (3 Years Free)	Bluetooth & Wi-Fi & 4G (5 Years Free)
Display	Dot-matrix display	Dot-matrix display	Dot-matrix display	Dot-matrix display
App Control	●	●	●	●
OTA Updates	●	●	●	●
GPS Theft Tracking	●	●	●	●
PIN Code	●	●	●	●
Anti-Theft Alarm	●	●	●	●
Mower Lifted Alarm	●	●	●	●
Child Lock	●	●	●	●

○ Optional ● Standard - Unavailable

● *:Extended connectivity requires the Navimow Access+ 4G module

	i105	i108	H500-VF	H800-VF	H1500-VF
	500 m²	800 m²	500 m²	800 m²	1500 m²
	545 × 385 × 285 mm	545 × 385 × 285 mm	603 × 468 × 274 mm	603 × 468 × 274 mm	603 × 468 × 274 mm
	10.9 kg	10.9 kg	17 kg	17 kg	17.3 kg
	Yes	Yes	Yes	Yes	Yes
	20 - 60 mm	20 - 60 mm	30 - 60 mm	30 - 60 mm	30 - 60 mm
	Manual	Manual	Auto	Auto	Auto
	18 cm	18 cm	21 cm	21 cm	21 cm
	3	3	3	3	3
	30%	30%	24° / 45%	24° / 45%	24° / 45%
	10%	10%	10%	10%	10%
	2.55 Ah	5.1 Ah	5.1 Ah	5.1 Ah	7.65 Ah
	90 min	120 min	180 min	180 min	240 min
	0.4 m/s	0.4 m/s	0.4 m/s	0.4 m/s	0.4 m/s
	60 min	120 min	180 min	180 min	240 min
	-	-	-	-	-
	EFLS 2.0	EFLS 2.0	EFLS 1.0	EFLS 1.0	EFLS 1.0
	140° RGB	140° RGB	140° RGB	140° RGB	140° RGB
	Front-wheel drive	Front-wheel drive	Rear-wheel drive	Rear-wheel drive	Rear-wheel drive
	58 dB(A)	58 dB(A)	54 dB(A)	54 dB(A)	54 dB(A)
	No	No	No	No	No
	IP66	IP66	IP66	IP66	IP66
	Self-adaptive	Self-adaptive	Rain Sensor	Rain Sensor	Rain Sensor
	Yes	Yes	Yes	Yes	Yes
	Alexa & Google Home	Alexa & Google Home	Alexa & Google Home	Alexa & Google Home	Alexa & Google Home
	Bluetooth & Wi-Fi & 4G (optional)	Bluetooth & Wi-Fi & 4G (optional)	Bluetooth & Wi-Fi	Bluetooth & Wi-Fi & 4G (2 Years Free)	Bluetooth & Wi-Fi & 4G (3 Years Free)
	LED display screen	LED display screen	LED display screen	LED display screen	LED display screen
	●	●	●	●	●
	●	●	●	●	●
	● *	● *	○	●	●
	●	●	●	●	●
	● *	● *	●	●	●
	●	●	○	○	○
	●	●	○	○	○

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The manufacturer reserves the right to make changes to the product
and specifications at any time. Please visit uknavimow.com for more information.

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