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Segway extends its Navimow robotic lawnmower range with X3 Series launch

11 months ago

Segway Navimow has launched the X3 Series, the latest addition to its portfolio of boundary-cord-free robotic lawnmowers. The range consists of four new models – the X315, X330, X350 and X390 – and is designed to handle unprecedented lawn sizes with precision, mowing areas of up to 10,000m² (the equivalent of one and a half football pitches). The X3 Series joins the popular i Series and H Series models in the Navimow line-up, which are used by over 170,000 customers globally.

Optimised performance to tackle larger lawns

Boasting ultra-fast charging capabilities, 6 blades, an anti-clogging blade disc and accelerated mowing speed, the Navimow X3 Series operates at an efficiency level two times faster than the industry average. The machine can cover a 5,000m² mowing area within just 24 hours, making it the ideal solution for handling bigger lawns. This is bolstered by expanded coverage per charge, tending to gardens or fields as large as 1,200m² before the battery runs out.

TÜV Rheinland has endorsed the high-performance credentials of the X3 Series, awarding it the certification for high mowing efficiency after extensive testing. This is the first time a robotic lawnmower has been granted this accolade, underlining the X3 Series' position at the forefront of mowing innovation.

EFLS 3.0: Precision positioning and extended signal coverage

Segway has upgraded its Exact Fusion Location System (EFLS) for the X3 Series, introducing EFLS version 3.0. This features major upgrades in Real-Time Kinematic (RTK) coverage, Visual Simultaneous Localisation and Mapping (VSLAM), and Visual Inertial Odometry (VIO) technology. This state-of-the-art system ensures unparalleled stability and precision, even in challenging signal environments.

Powered by a customised chip from STMicroelectronics, a world-leading microelectronics manufacturer, the self-developed 3-frequency RTK system increases signal coverage by 20-30%. This mitigates against blind spots that block reception, such as narrow passages or areas under high rooftops. Dual RTK antennas are equipped to address complex layouts, for example properties with both front and back yards, with an extra antenna installed to provide extended signal coverage and unbeatable stability.

Upgraded VisionFence with 300° view

Enhanced VisionFence technology, a solution specifically designed to deliver efficient AI route planning, bolsters the X3 Series with a 300° field of view that enables highly reliable obstacle avoidance. Powered by 3 cameras and a Time-of-Flight (ToF) sensor with a 0.1-2 metre sensory range, hazard detection (including suspended objects such as swings, trampolines, and hanging decorations) is significantly improved. The recognition capabilities of the X3 Series extend to over 200 different obstacle types, ensuring smooth, intuitive navigation.

Additional features that increase user experience and usability include a dot matrix screen that communicates status updates, theft alerts and GPS tracking, smart speaker integration, and a design equipped to handle slopes of up to 50% (27°).

Unlocking new possibilities through the Expansion Bay

The Expansion Bay with open API allows customers to integrate product extensions tailored to their personal needs.

George Ren, CEO of Segway Navimow BU, commented: “Built to tackle larger areas and layouts of varying levels of complexity, the X3 Series is tailormade for a new market that stands to benefit from the efficiency and accuracy of robotic mowers. Not only can it fulfil the needs of households with larger gardens requiring significant maintenance, its capabilities extend to commercial use where the X3 Series can help estates managers, local councils and many more save time and achieve outstanding results.

“This latest addition to the Navimow portfolio perfectly complements our i Series and H Series ranges. We are now able to meet the diverse range of requirements of UK gardeners, offering autonomous and highly efficient mowing for lawns of all shapes and sizes.”