LiDAX Ultra Series

Master Your Lawn with Supreme Intelligence

3 — 3-Year Warranty*
Reliable Quality

*Please refer to the MOVA official website for warranty details. Some models & parts may not be applicable.
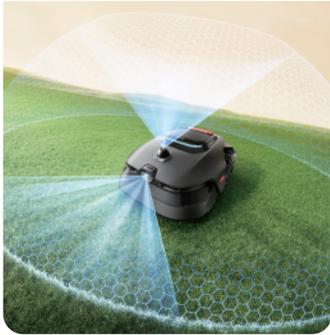
NO WIRE/RTK
EASY INSTALLATION

LiDAX Ultra Series

Robotic Lawn Mower

Meet the LiDAX Ultra Series—your intelligent, wire-free mowing solution. Powered by UltraView™ 2.0 Environmental Sensing Technology with 3D LiDAR and AI vision, it navigates with centimeter-level precision—no boundary wires or RTK needed. UltraTrim™ 1.0 technology delivers flawless edge cutting, while smart obstacle avoidance and pet-safe modes ensure safety and peace of mind. Designed to handle tight spaces and uneven terrain, it provides fully autonomous daily mowing with reliable performance. Precision, safety, and perfection—all in one seamless experience.

Key Features

Wireless, RTK-Free Setup AI-Assisted Auto-Mapping

With AI vision and 3D LiDAR, the mower auto-maps your yard in 3D with centimeter accuracy—no wires or RTK stations needed, even in complex layouts, under dim or harsh light. Power on and mow anywhere with ease.

Flawless Edge Precision < 5cm with Movable Disc

With UltraTrim™ 1.0, the mower cuts within 5cm of walls, hedges and raised edges. A movable disc covers gaps to minimize misses. For flush lawn-pavement edges, it rides on edges for clean, precise cuts.

Comprehensive Safety for Family & Property

Powered by UltraView™ 2.0, the mower detects and avoids over 300 obstacles—even small items—to keep kids and pets safe. With a link module, anti-theft protection offers real-time tracking and instant alerts if it is moved beyond the mapped area.

U-Shaped Efficiency, Conquers All Terrain

The mower uses smart U-shaped planning and auto-resume charging to ensure efficient, stable mowing, while handling 45% slopes and 4cm obstacles with reliable performance.
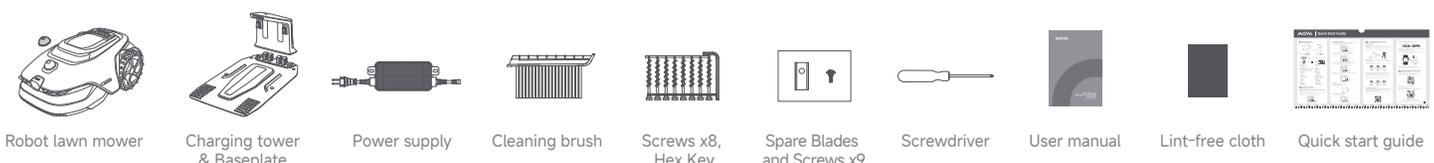
Specifications

Robot Lawn Mower Dimensions	666mm × 444mm × 273mm
Robot Lawn Mower Weight	LiDAX Ultra 800: 13.7kg LiDAX Ultra 1200/1600: 13.8kg
Max. Mowing Area	LiDAX Ultra 800: 800m² LiDAX Ultra 1200: 1200m² LiDAX Ultra 1600: 1600m²
Boundary Setup Type	AI Auto & Remote Control
Map Views	2D & 3D
Mapping & Navigation	UltraView™ 2.0 (360° 3D LiDAR + AI Vision)
Obstacle Avoidance	360° 3D LiDAR+AI Vision
Dual-Map	Yes
Multi-Zone Management	Yes
Mowing Efficiency	LiDAX Ultra 800:Standard: 800m²/day Efficient: 1200m²/day LiDAX Ultra 1200: Standard: 1000m²/day Efficient: 1400m²/day LiDAX Ultra 1600: Standard: 1200m²/day Efficient: 1600m²/day
Drive System	Off-Road Wheels
Path Planning	U-Shape
Cutting Height & Width	3–10cm, 20cm
Edge Retention	UltraTrim™ 1.0: < 5cm
Garden Security	45% (24°)
Max. Slope Performance	TrueGuard™ System
Link Module Service	1 Years Free for LiDAX Ultra 1600 Optional for LiDAX Ultra 800/1200

Features

UltraView™ 2.0: RTK-Free Setup, AI Auto-Mapping	UltraTrim™ 1.0: Edge Grass Width <5cm	Adjustable Cutting Height: 3-10cm
All-Terrain Capability: 45% Slopes, 4cm Obstacles	U-Shape Path & Long Runtime for Mowing Efficiency	AI Detects 300+ Obstacles & Protects Pets
Dual Maps & Up to 150 Managed Zones	User-Friendly: Smart 4G Anti-Theft, Anti-Lift, Safety, Low Noise	TrueGuard™: Live Video & Patrol for Garden Security

What's in the Box

Robot lawn mower | Charging tower & Baseplate | Power supply | Cleaning brush | Screws x8, Hex Key | Spare Blades and Screws x9 | Screwdriver | User manual | Lint-free cloth | Quick start guide