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Mova LiDAX Ultra 800

MOVA LiDAX Ultra 800 Robot Lawnmower Instruction Manual

Model: LiDAX Ultra 800 | Brand: Mova

1. INTRODUCTION

The MOVA LiDAX Ultra 800 is an advanced robotic lawnmower designed to provide effortless and precise lawn maintenance for areas up to 800 m². Featuring innovative 360° 3D LiDAR and AI Vision technology, it offers automatic mapping without the need for perimeter wires or RTK stations. This manual provides essential information for the safe and efficient operation, setup, and maintenance of your LiDAX Ultra 800.



Figure 1.1: MOVA LiDAX Ultra 800 Robot Lawnmower

2. KEY FEATURES

- **Wireless Setup & AI Mapping:** Utilizes 360° 3D LiDAR and AI Vision for automatic, centimeter-accurate garden mapping without perimeter wires or RTK stations, even in complex layouts or varying light conditions.
- **Precision Edge Cutting:** The UltraTrim 1.0 system cuts within 5 cm of walls, hedges, and raised borders. Its movable disc reaches inaccessible spots, ensuring clean and precise cuts, even when transitioning between lawn and paving.
- **AI Obstacle Detection:** Advanced 3D point cloud data and AI vision enable detection and avoidance of over 300 types of obstacles, from large outdoor furniture to small garden items, ensuring safety for family and pets.
- **All-Terrain Capability:** Rear-wheel drive and off-road wheels provide strong grip, allowing the mower to handle slopes up to 45% and overcome obstacles up to 4 cm high and small holes with ease.
- **Efficient U-Path Mowing:** The LiDAX Ultra series mows every centimeter of your lawn using a U-path planning, ensuring uniform and precise cuts. It automatically returns to the charging station when the battery is low and resumes mowing from where it left off.

- **Multi-Zone Management:** Manage up to 2 independent maps, ideal for separate front and back gardens or multiple properties. Set custom mowing plans for each zone.
- **Anti-Theft & TrueGuard Security:** An intelligent security system continuously monitors the environment, detects potential risks, and triggers an alarm if necessary. With an optional connection module, it offers real-time tracking and instant alerts if the robot leaves the mapped area.
- **Smart Height Adjustment:** Adjust cutting height directly from the MOVAhome app, from 3 to 10 cm, to suit your preferred lawn style.



UltraTrim 1.0:
< 5 cm con disco mobile

Figure 2.1: Precision Edge Cutting with UltraTrim 1.0



**L'IA rileva oltre 300 ostacoli
e protegge gli animali domestici**

Figure 2.2: AI Vision for Obstacle Detection



Capacità fuoristrada: Pendenze del 45%, ostacoli di 4 cm

Figure 2.3: Handling Slopes up to 45%

3. SETUP

Follow these general steps to set up your MOVA LiDAX Ultra 800:

1. **Unboxing:** Carefully remove all components from the packaging. Verify that all items listed in the package contents are present.
2. **Charging Station Placement:** Choose a suitable location for the charging station, preferably in a shaded area with access to a power outlet. Ensure the area around the station is clear for the robot's docking.
3. **Power Connection:** Connect the charging station to a power source.
4. **Initial Charge:** Place the robot on the charging station to fully charge the battery before first use.
5. **App Installation:** Download the MOVAhome app from your smartphone's app store.
6. **Robot Pairing:** Follow the in-app instructions to pair your robot with the app.
7. **Garden Mapping:** Use the app to initiate the automatic mapping process. The robot will navigate your garden to create a 3D map. Define any 'no-go' zones or specific areas within the app.



Figure 3.1: Wireless Setup and AI Mapping Process

Protezione Antifurto
Connettività in tempo reale + Avvisi

- Link Services**
 Include tracciamento in tempo reale 4G integrato. Localizza il tuo robot tramite Google Maps e ricevi avvisi immediati se esce dalle aree mappate – anche senza Wi-Fi.
- Avvisi di Sollevamento**
 Attiva un allarme e invia notifiche immediate all'app se il robot viene sollevato o manomesso.
- Compatibilità AirTag**
 Posiziona in sicurezza un AirTag nello slot dedicato per un ulteriore livello di protezione.

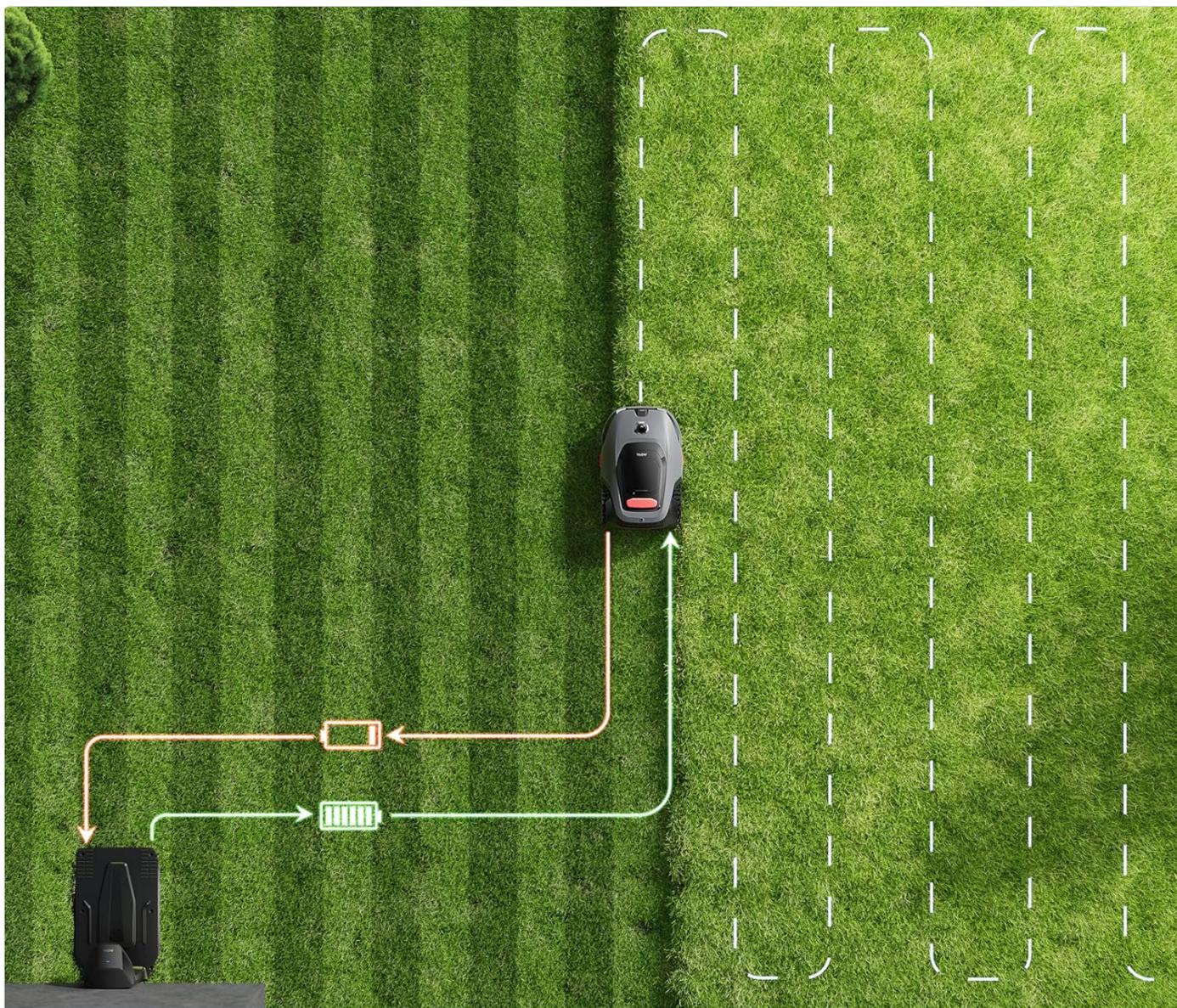
*Il Link Module è disponibile come accessorio opzionale per LiDAX Ultra 800/1200, incluso 1 anno gratuito per LiDAX Ultra 1600.
*AirTag deve essere acquistato separatamente dall'Apple Store.

Figure 3.2: MOVAhome App for Garden Mapping

4. OPERATING INSTRUCTIONS

Once set up, operating your LiDAX Ultra 800 is straightforward:

- Starting a Mowing Session:** From the MOVAhome app, select the desired mowing area and press 'Start'. The robot will begin mowing according to its programmed U-path.
- Scheduling:** Set up regular mowing schedules through the app. You can customize schedules for different zones and adapt them to seasonal growth.
- Adjusting Cutting Height:** Use the app to digitally adjust the cutting height between 3 cm and 10 cm.
- Manual Control:** For specific areas or quick touch-ups, you can manually control the robot via the app.
- Return to Station:** The robot will automatically return to its charging station when its battery is low or a mowing session is complete. You can also command it to return via the app.
- Multi-Zone Operation:** If you have multiple mapped zones, select the desired zone for mowing in the app.



Efficienza di tosatura con andamento a U e autonomia prolungata

Figure 4.1: Efficient U-Path Mowing



Figure 4.2: Smart Height Adjustment via App

5. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your robot lawnmower:

- **Cleaning:** Regularly clean the robot's exterior, wheels, and cutting deck. The IPX6 waterproof rating allows for easy rinsing of the exterior and underside. Use the provided brush for cleaning.
- **Blade Replacement:** Inspect the blades regularly for wear and tear. Replace dull or damaged blades to maintain cutting efficiency. Refer to the user manual for detailed instructions on blade replacement.
- **Charging Station:** Keep the charging station area clean and free from debris to ensure proper docking and charging.
- **Software Updates:** Ensure the MOVAhome app and robot firmware are updated to the latest versions for improved features and performance.



Funzionamento silenzioso < 57 dB

Passa un weekend tranquillo mentre la serie LiDAX Ultra lavora sotto i 57 dB*, mantenendo il prato in ordine senza alcun disturbo.

*57 dB rappresenta il livello sonoro del robot in modalità di taglio standard.



Pulisci il tuo robot senza sforzo

Imposta punti di pulizia personalizzati nell'app e avvia con un solo tocco. La serie LiDAX Ultra si muove automaticamente, senza necessità di trasporto manuale, e la certificazione IPX6 permette di sciacquare facilmente esterno e parte inferiore.



Rilevamento avanzato delle condizioni meteo

La serie LiDAX Ultra rileva pioggia e neve tramite un sensore pioggia, torna alla base di ricarica e riprende il taglio quando le condizioni migliorano – tutto senza intervento manuale.



Goditi un taglio pulito e senza emissioni

Alimentato da una batteria al litio, il robot opera in modo silenzioso e sostenibile, a differenza dei tradizionali rasaerba a benzina. Con periodi di ricarica personalizzabili, mantiene una potenza di standby sicura e si ricarica completamente solo negli orari programmati, riducendo il consumo energetico per una cura del prato più ecologica.

Figure 5.1: General Maintenance Overview

6. TROUBLESHOOTING

If you encounter issues with your MOVA LiDAX Ultra 800, consider the following common solutions:

- **Robot Not Starting:** Ensure the robot is fully charged and properly docked. Check the app for any error messages.
- **Poor Mowing Performance:** Inspect the blades for sharpness and damage. Replace if necessary. Ensure the cutting height is set appropriately for your lawn.
- **Navigation Issues:** Verify that the garden map in the app is accurate and up-to-date. Check for any new obstacles that might not be mapped. Ensure strong Wi-Fi signal in the mowing area.
- **Robot Stuck:** Clear any debris or obstacles that may be impeding the robot's movement. Check for uneven terrain or holes.
- **App Connectivity Problems:** Ensure your smartphone's Bluetooth and Wi-Fi are enabled. Restart the app and the robot if necessary.

For more detailed troubleshooting, refer to the comprehensive user manual available on the MOVA website or contact customer support.

7. SPECIFICATIONS

Feature	Specification
Model Number	MXXM2100
Product Dimensions	65.86 x 29.41 x 43.92 cm
Item Weight	13.8 kg
Power Source	Battery Powered
Recommended Area	Up to 800 m ²
Cutting Width	5 cm (edge cutting)
Adjustable Cutting Height	3 - 10 cm

Feature	Specification
Operating Mode	Automatic
Max Slope	45%
Obstacle Clearance	Up to 4 cm
Assembly Required	No

8. PACKAGE CONTENTS

The MOVA LiDAX Ultra 800 package typically includes the following items:

- Robot Lawnmower (x1)
- Charging Station / Base Plate (x1)
- Power Adapter (x1)
- Quick Guide (x1)
- User Manual (x1)
- Screwdriver (x1)
- Cleaning Brush (x1)
- Replacement Blades / Screws (x9 / x9)
- Screws / Hex Key (x8 / x1)
- Lint-Free Cloth (x1)



Figure 8.1: Included Accessories and Components

9. PRODUCT VIDEO OVERVIEW

Watch this official product video for a visual overview of the MOVA LiDAX Ultra 800's features and operation.

Video 9.1: MOVA LiDAX Ultra 800 Product Overview

10. WARRANTY AND SUPPORT

For warranty information, technical support, or to purchase replacement parts, please visit the official Mova website or contact your local retailer. Keep your proof of purchase for warranty claims.

Online Resources: [Mova Official Store on Amazon](#)

