Mova MLLM1110

MOVA 600 Robotic Lawnmower User Manual

Model: MLLM1110

Introduction

The MOVA 600 is an advanced robotic lawnmower designed to provide efficient and precise lawn care for areas up to 600 m². Utilizing cutting-edge 3D LiDAR technology, it offers wireless setup, intelligent navigation, and smart obstacle avoidance, ensuring a well-maintained lawn with minimal effort. This manual provides comprehensive instructions for setting up, operating, and maintaining your MOVA 600.



Figure 1: The MOVA 600 robotic lawnmower alongside its companion mobile application, illustrating its sleek design and smart control capabilities.

Safety Warnings

Always read and understand all safety warnings and instructions before operating the MOVA 600. Failure to follow these instructions may result in electric shock, fire, and/or serious injury.

- Keep hands and feet away from the cutting blades.
- Ensure the work area is clear of stones, toys, wires, and other debris that could be thrown by the blades or interfere with operation.
- Do not operate the mower in wet conditions or during rain.
- Supervise children and pets when the mower is operating. The MOVA 600 features intelligent obstacle avoidance, but direct supervision is always recommended.
- Turn off the mower and remove the safety key before performing any maintenance or cleaning.
- Only use original MOVA replacement parts and accessories.
- Do not modify the mower in any way.



Figure 2: The MOVA 600's intelligent obstacle avoidance system detects and navigates around various objects including pets, people, fences, flower beds, exposed tree roots, garden furniture, and slides, ensuring safe operation.

Setup

The MOVA 600 features a simple and fast wireless setup process, eliminating the need for boundary wires or RTK base stations.

1. Charging Station Placement

Place the charging station on a flat, level surface with access to a power outlet. Ensure there is sufficient clear space around the station for the mower to dock easily.

2. Initial Charge

Connect the MOVA 600 to the charging station and allow it to fully charge before first use. Refer to the specifications for charging time.

3. App Installation and Connection

1. Download the "MOVAhome" app from your device's app store.
2. Follow the in-app instructions to connect your MOVA 600 to your Wi-Fi network.

4. Mapping Your Lawn

The MOVA 600 uses 3D LiDAR technology to create a precise map of your garden. This process is done wirelessly through the app:

- In the MOVAhome app, select the mapping function.
- Remotely control the MOVA 600 to drive along the perimeter of your desired mowing area. The robot will automatically perceive its 3D environment and generate a real-time map.
- Define virtual boundaries, no-go zones, and specific mowing areas within the app.



Figure 3: The MOVA 600 simplifies setup by eliminating the need for traditional boundary wires, RTK base stations, or signal lights, offering a truly wireless and hassle-free installation.



Figure 4: UltraView™ Technology for Environmental Recognition: The MOVA 600 utilizes advanced 3D LiDAR with a wide angle of 360° x 59°, a detection range of up to 30 meters, and centimeter-level precision for accurate environmental mapping.

Operating

The MOVA 600 is controlled primarily through the MOVAhome app, offering flexible and convenient lawn management.

1. Mowing Schedules and Zones

- Use the app to set up customized mowing schedules for different areas of your lawn.
- The dual map function allows for managing separate areas with individual settings.
- Adjust settings such as mowing direction and efficiency for each zone.

2. Mowing Modes

The MOVA 600 offers several mowing modes to suit your needs:

- **All Areas:** Mows the entire mapped area.

- **Specific Area:** Mows a selected zone.
- **Edge Mowing:** Focuses on the perimeter of the lawn.
- **Spot Mowing:** Mows a small, specific area.
- **Manual Control:** Allows you to manually steer the mower using the app.



Figure 5: The MOVAhome app provides comprehensive control over your lawn care, allowing you to manage mowing plans, efficiency settings, obstacle avoidance heights, and mowing directions for different zones.



Figure 6: The MOVA 600 offers versatile mowing modes, including options for mowing all areas, specific zones, edge cutting, spot mowing, and manual control, providing tailored lawn maintenance.

3. Outdoor Performance

The MOVA 600 is designed for robust outdoor performance, capable of handling various conditions:

- **Slopes:** Can mow on inclines up to 45% (24°).
- **Light Conditions:** Operates efficiently in low light and bright light.
- **Quiet Operation:** Designed for quiet operation, allowing for flexible mowing times without disturbance.



Figure 7: Precise Positioning for Outdoor Use: The MOVA 600 maintains accurate positioning and efficient mowing across various outdoor conditions, including steep slopes (up to 45%/24°), bright light, low light, and areas with challenging signal reception.



Figure 8: The MOVA 600 operates with low CO2 emissions and maintains a quiet operation level below 60 dB, offering greater flexibility for mowing at any time without causing disturbance.

Maintenance

Regular maintenance ensures the longevity and optimal performance of your MOVA 600.

- **Blade Inspection and Replacement:** Regularly check the cutting blades for wear and damage. Replace dull or damaged blades to ensure a clean cut. The package includes 81 replacement blades.
- **Cleaning:** Keep the mower's body, wheels, and charging contacts clean. Use a soft brush or cloth to remove grass clippings and debris. Do not use high-pressure water.
- **Software Updates:** Periodically check the MOVAhome app for available firmware updates to ensure your mower has the latest features and performance improvements.
- **Storage:** During off-season or extended periods of non-use, store the mower in a dry, protected area. Ensure the battery is fully charged before storage.

Troubleshooting

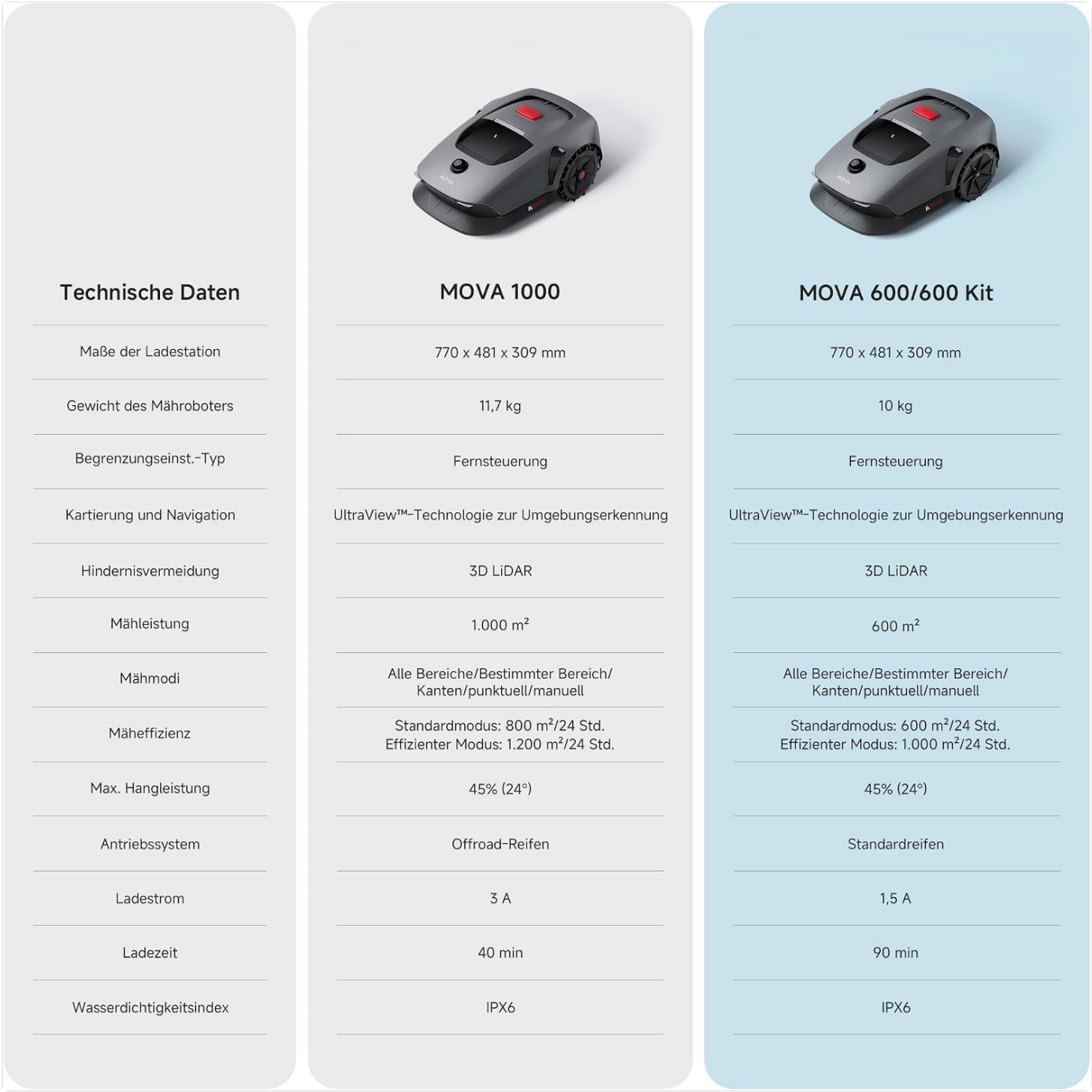
This section addresses common issues you might encounter with your MOVA 600.

Problem	Possible Cause	Solution
Mower not starting	Low battery; Safety key not inserted; Error message in app.	Charge the mower; Insert the safety key fully; Check the app for specific error codes and solutions.
Poor mowing performance	Dull or damaged blades; Grass too long; Mowing efficiency setting too low.	Replace blades; Mow more frequently or adjust cutting height; Increase mowing efficiency in the app.
Mower gets stuck frequently	Obstacles in the mowing area; Uneven terrain; Virtual boundaries not set correctly.	Clear the area of debris; Adjust virtual boundaries or no-go zones in the app; Ensure terrain is suitable for operation.
Cannot connect to app	Wi-Fi signal issue; Mower is out of range; App needs update.	Check Wi-Fi connection; Move mower closer to router; Update MOVAhome app.

Specifications

Key technical specifications for the MOVA 600 robotic lawnmower.

Feature	Detail
Model Number	MLLM1110
Brand	Mova
Mowing Capacity	Up to 600 m²
Navigation Technology	UltraView™ Technology (3D LiDAR)
Obstacle Avoidance	3D LiDAR
Max. Slope Capability	45% (24°)
Charging Time	Approximately 90 minutes
Water Resistance Index	IPX6
Dimensions (Mower)	77 x 30.9 x 48.1 cm
Weight (Mower)	10 kg
Power Source	Battery Powered
Color	Grey



Technische Daten	MOVA 1000	MOVA 600/600 Kit
Maße der Ladestation	770 x 481 x 309 mm	770 x 481 x 309 mm
Gewicht des Mähroboters	11,7 kg	10 kg
Begrenzungseinst.-Typ	Fernsteuerung	Fernsteuerung
Kartierung und Navigation	UltraView™-Technologie zur Umgebungserkennung	UltraView™-Technologie zur Umgebungserkennung
Hindernisvermeidung	3D LiDAR	3D LiDAR
Mähleistung	1.000 m^2	600 m^2
Mähmodi	Alle Bereiche/Bestimmter Bereich/ Kanten/punktuell/manuell	Alle Bereiche/Bestimmter Bereich/ Kanten/punktuell/manuell
Mäheffizienz	Standardmodus: 800 m^2/24 Std. Effizienter Modus: 1.200 m^2/24 Std.	Standardmodus: 600 m^2/24 Std. Effizienter Modus: 1.000 m^2/24 Std.
Max. Hangleistung	45% (24°)	45% (24°)
Antriebssystem	Offroad-Reifen	Standardreifen
Ladestrom	3 A	1,5 A
Ladezeit	40 min	90 min
Wasserdichtigkeitsindex	IPX6	IPX6

Figure 9: Detailed technical specifications for the MOVA 600/600 Kit, including dimensions, weight, navigation type, obstacle avoidance, mowing capacity, max slope, charging time, and water resistance.

Package Contents

The MOVA 600 package includes the following items:

- 1 x Robotic Lawnmower
- 1 x Charging Station
- 1 x Cleaning Brush
- 8 x Screws
- 1 x Hex Key
- 1 x Power Adapter
- 1 x Lint-free Cloth
- 1 x User Manual (this document)
- 1 x Quick Start Guide

- 9 x Replacement Blade Sets (total 81 blades)



Figure 10: Contents of the MOVA 600 package, including the main unit, charging station, accessories, and documentation.

Warranty and Support

The MOVA 600 comes with a **3-year warranty**. For any questions, technical assistance, or warranty claims, please contact Mova customer service. Refer to the official Mova website or the MOVAhome app for the most up-to-date contact information.

You can also visit the Mova Store on Amazon for more product information and support resources.

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Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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