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LEFANT M1

LEFANT M1 Robot Vacuum and Mop User Manual

Model: M1 | Brand: LEFANT

1. PRODUCT OVERVIEW

The LEFANT M1 is an advanced 2-in-1 robot vacuum and mop designed to provide efficient and thorough cleaning for your home. It features LDS navigation for precise mapping, powerful 4000 Pa suction, and intelligent app control for customized cleaning.



Image: The LEFANT M1 robot vacuum and mop, showcasing its sleek design, accompanying mobile app interface, and water tank for mopping functionality.

2. PACKAGE CONTENTS

Please verify that all items are present in the package:

- LEFANT M1 Robot Vacuum and Mop
- Charging Docking Station
- Power Adapter
- Water Box (160ml)
- Dust Box (520ml)
- Cleaning Cloth (1)
- Disposal Cleaning Cloths (5)
- Mopping Pad Plate (1)

- Side Brushes (4)
- High Efficiency Filters (2)
- User Manual (this document)

Packing list



Docking Station*1



Water box(160ml)

Dust box(520ml)



Cleaning Cloth*1



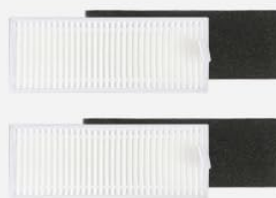
Disposal Cleaning Cloth*5



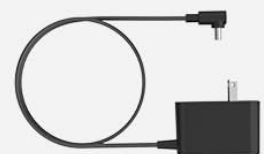
Mopping Pad Plate*1



Side Brushes*4



High Efficiency Filter*2



Adapter*1

Image: A visual representation of all components included in the LEFANT M1 package, such as the robot, docking station, water box, dust box, cleaning cloths, side brushes, filters, and adapter.

3. SETUP GUIDE

3.1 Initial Charging and Docking Station Placement

1. **Choose a suitable location:** Place the charging docking station against a wall on a hard, level surface. Ensure there are no obstacles within 1 meter (3 feet) to the front and 0.5 meters (1.5 feet) to the sides of the docking station.
2. **Connect power:** Plug the power adapter into the docking station and then into a wall outlet. Ensure the power indicator on the docking station lights up.
3. **Charge the robot:** Place the LEFANT M1 robot onto the charging station. Ensure the charging contacts on the robot align with those on the station. The robot will begin charging automatically. For first-time use, fully charge the robot before operation (approximately 4-5 hours).



Image: The LEFANT M1 robot approaching its charging dock, illustrating the automatic return-to-charge function when battery is low.

3.2 App Download and Connection

The LEFANT M1 can be controlled via the Lefant App. Ensure your Wi-Fi network is 2.4 GHz.

1. **Download the App:** Search for "Lefant" in your mobile app store (App Store for iOS or Google Play Store for Android) and download the official app.
2. **Register/Log In:** Open the app and follow the on-screen instructions to register a new account or log in if you already have one.
3. **Add Device:** Tap "Add Device" or the "+" icon in the app. Select the LEFANT M1 from the list of available devices.
4. **Connect to Wi-Fi:** Follow the app's instructions to connect your robot to your home Wi-Fi network. This typically involves pressing and holding a button on the robot until a Wi-Fi indicator blinks, then entering your Wi-Fi password in the app.
5. **Initial Mapping:** Once connected, the robot will perform an initial mapping run of your home. Ensure all doors are open and clear any obstacles for accurate mapping. The robot uses LDS navigation for precise mapping.

Multi floor Mapping

It can set No-Go zones, and Lefant APP can store up to 3 separate maps

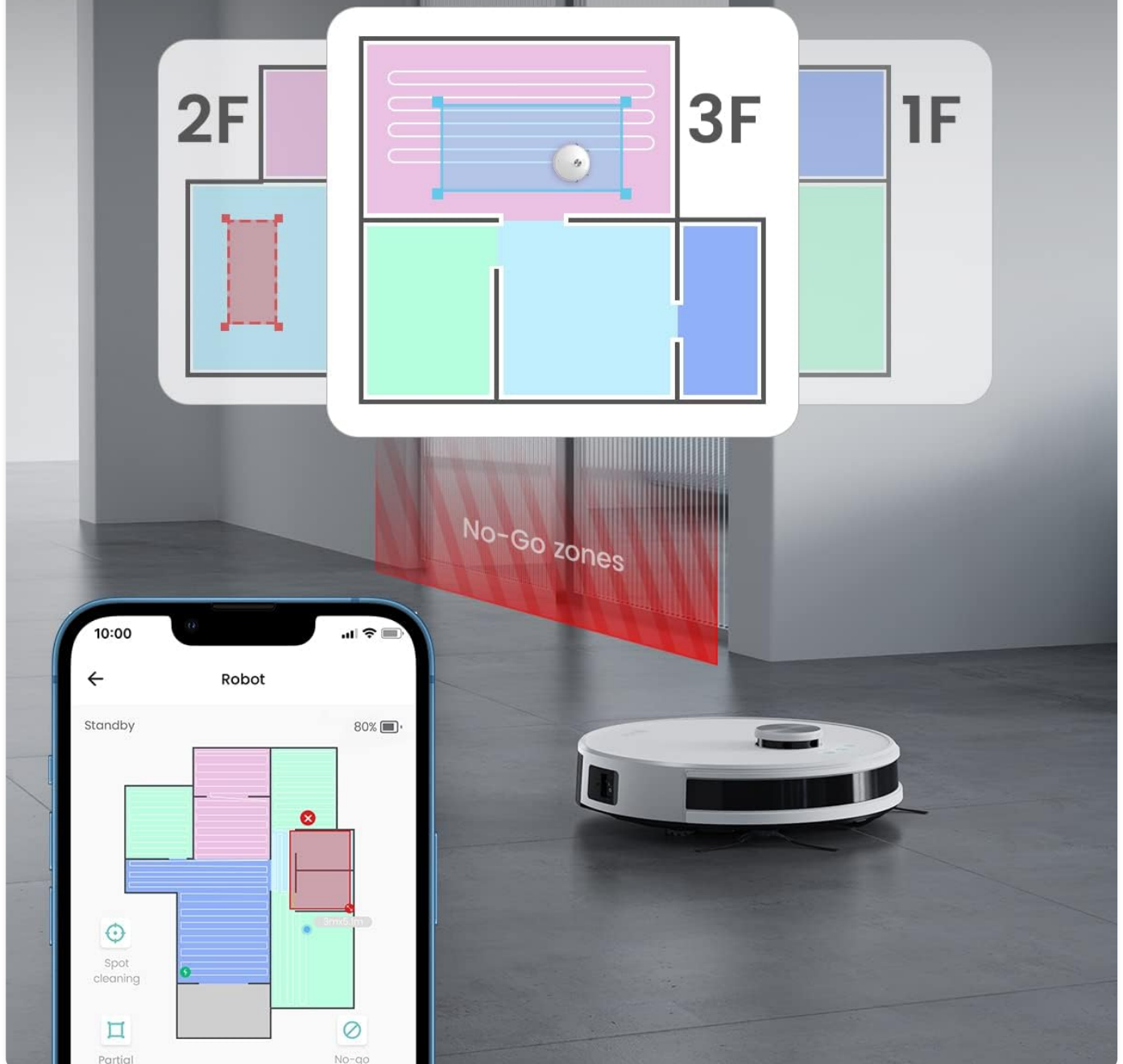


Image: A smartphone displaying the Lefant app interface, showing cleaning schedules, suction control, real-time map, area cleaning, and no-go zone settings, alongside the LEFANT M1 robot.

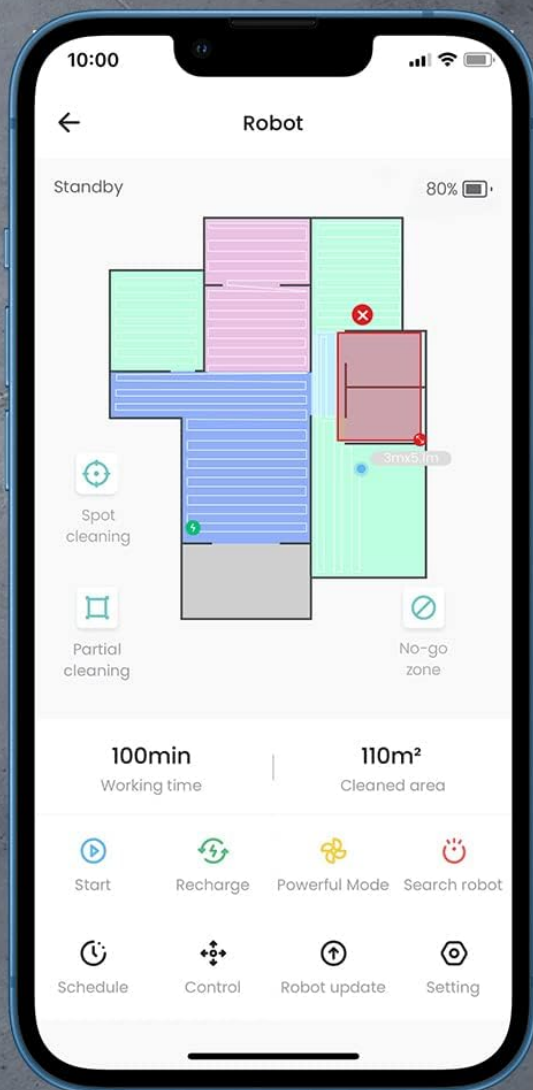
4. OPERATING INSTRUCTIONS

4.1 Cleaning Modes

The LEFANT M1 offers multiple cleaning modes to suit your needs:

- **Automatic Cleaning:** The robot intelligently cleans the entire mapped area.
- **Zoned Cleaning:** Select specific rooms or zones on the app map for the robot to clean.
- **Spot Cleaning:** Direct the robot to clean a concentrated area of dirt.
- **Along the Wall Cleaning:** The robot cleans along the edges of rooms.
- **Scheduled Cleaning:** Set cleaning schedules via the app for automated cleaning at preferred times.
- **Virtual No-Go Zones:** Define areas on the map where the robot should not enter or clean.

Fantastic APP Control



Cleaning Schedules



Suction Control



Real-time Map



Area cleaning



No-Go Zone

Image: A diagram illustrating the LEFANT M1's multi-floor mapping capability, showing how it can store maps for different floors (1F, 2F, 3F) and set no-go zones.

4.2 Suction Power and Mopping Water Level Adjustment

Adjust cleaning intensity based on your floor type and cleaning needs:

- **Suction Power:** The M1 features 4000 Pa powerful suction. You can adjust the suction level (e.g., Standard, Strong, Max) through the Lefant App to optimize for different surfaces like hard floors or carpets.
- **Mopping Function:** The M1 is equipped with a 160ml water tank and a 520ml dust box for simultaneous vacuuming and mopping.
- **Water Level:** There are 3 adjustable water levels for mopping. The peristaltic pump ensures even water dispensing, preventing water accumulation. Adjust the water flow via the app for different floor types.



Image: The LEFANT M1 robot demonstrating its 4000Pa powerful suction, with an internal view showing the floating roller brush adapting to uneven ground.

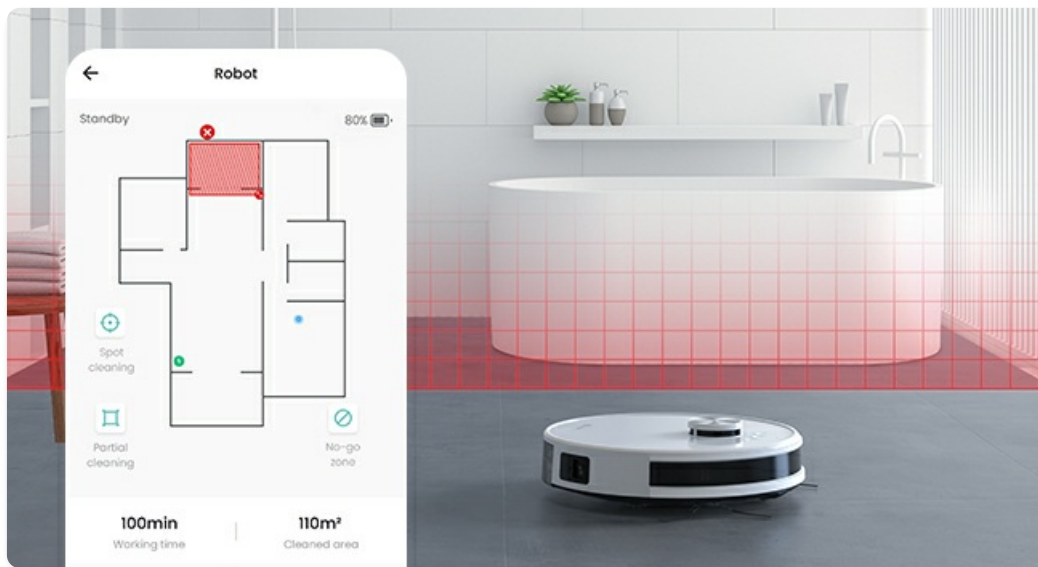


Image: A comparison showing the LEFANT M1 stopping water flow when encountering an obstacle, preventing water leakage, unlike other robots that might continue to leak.

4.3 Navigation and Obstacle Avoidance

The LEFANT M1 utilizes advanced navigation technologies:

- **LDS Navigation:** The LIDAR sensor detects distance and creates accurate maps of your home, allowing the robot to plan efficient cleaning paths.
- **FreeMove 3.0 Technology:** Integrated 6D infrared anti-collision sensors provide 720-degree omnidirectional detection of the surroundings. This helps the robot avoid obstacles more easily, reducing wear and tear.

LDS Laser Navigation + Freemove 3.0



Image: The LEFANT M1 robot navigating a room, illustrating its LDS Laser Navigation and FreeMove 3.0 technology for obstacle avoidance, with a puppy in the background.

4.4 Voice Control

The LEFANT M1 supports voice commands via Amazon Alexa and Google Home. Ensure your robot is connected to the Lefant App and linked to your voice assistant account.

- **Connecting to Alexa/Google Home:** Refer to the respective voice assistant app for instructions on linking third-

party smart home devices.

- **Example Commands:**

- "Alexa, turn on M1."
- "Hey Google, tell M1 to start cleaning."
- "Alexa, tell M1 to go home."

Voice Control



"Alexa, turn on M1"



Lefant APP



Amazon Alexa



Google Assistant



2.4 GHz WiFi Only

OK



Image: The LEFANT M1 robot on a floor with a Google Home device, illustrating voice control capabilities with the command "Alexa, turn on M1" and "OK" response.

5. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your LEFANT M1.

5.1 Dust Box and Filter Maintenance

1. **Emptying the Dust Box:** Press the release button to remove the dust box. Open the dust box cover and empty its contents into a trash bin after each cleaning cycle or when full.
2. **Cleaning the Filter:** Remove the high-efficiency filter from the dust box. Tap the filter gently to remove dust. Do not wash the high-efficiency filter with water. The filter can be cleaned with a small brush or a vacuum cleaner. Replace the filter every 3-6 months depending on usage.
3. **Washing the Dust Box:** The dust box can be rinsed with water. Ensure it is completely dry before re-installing it into the robot.

5.2 Water Tank and Mopping Pad Maintenance

1. **Emptying and Cleaning the Water Tank:** After each mopping session, remove the water tank and empty any remaining water. Rinse the tank with clean water.
2. **Cleaning the Mopping Pad:** Remove the mopping pad from the plate. The reusable cleaning cloth can be hand-washed or machine-washed. Allow it to air dry completely before reattaching. Dispose of disposable cleaning cloths after use.
3. **Cleaning the Mopping Pad Plate:** Wipe the mopping pad plate with a damp cloth to remove any residue.

Electric Water Tank

Set water flow for different needs and floor types

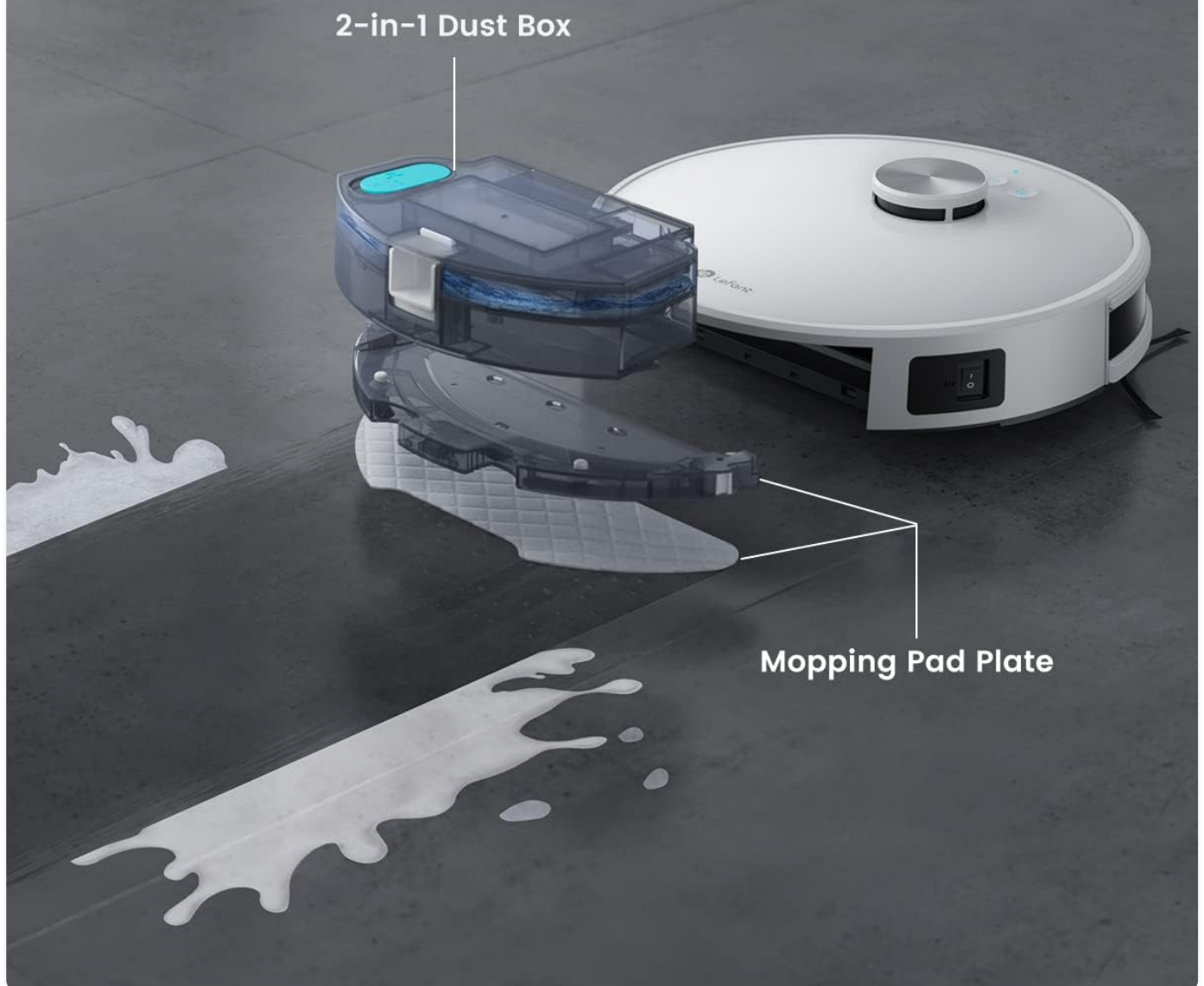


Image: A disassembled view of the LEFANT M1's electric water tank, showing the 2-in-1 dust box and the mopping pad plate, with water splashes indicating its mopping function.

5.3 Brushes and Sensors Maintenance

1. **Cleaning Side Brushes:** Regularly check the side brushes for tangled hair or debris. Use a pair of scissors to cut away any tangled hair and pull it out. Wipe the brushes clean. Replace worn-out side brushes as needed (4 included in package).

- 2. **Cleaning Main Roller Brush:** Turn the robot over and remove the main brush cover. Lift out the main roller brush. Use the cleaning tool (if provided) or scissors to remove tangled hair and debris. Reinstall the brush and cover.
- 3. **Cleaning Sensors:** Gently wipe the LDS sensor, anti-drop sensors, and anti-collision sensors with a clean, dry cloth. Keep them free from dust and debris to ensure proper navigation and obstacle avoidance.

6. TROUBLESHOOTING

If you encounter issues with your LEFANT M1, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Robot does not turn on or charge.	Low battery; charging contacts not aligned; power adapter not connected.	Ensure robot is properly placed on the charging dock. Check power connection to the dock and wall outlet. Clean charging contacts on both robot and dock.
Robot gets stuck frequently.	Obstacles (cables, rugs, furniture); dirty sensors.	Clear obstacles from the cleaning path. Use virtual no-go zones for problematic areas. Clean all sensors on the robot.
Poor cleaning performance.	Full dust box; clogged filter; worn brushes.	Empty the dust box. Clean or replace the high-efficiency filter. Clean or replace side brushes and main roller brush.
App connection issues.	Incorrect Wi-Fi password; 5GHz Wi-Fi network; robot too far from router.	Ensure you are connecting to a 2.4 GHz Wi-Fi network. Re-enter Wi-Fi password carefully. Move robot closer to the router during setup. Restart robot and router.
Mopping function not working.	Empty water tank; clogged water nozzle; incorrect water level setting.	Fill the water tank. Check for any blockages in the water dispensing nozzles. Adjust water level settings in the app.

7. SPECIFICATIONS

Feature	Detail
Brand	LEFANT
Model	M1
Color	White
Product Dimensions	32 x 32 x 9.4 cm
Weight	4.26 kg
Dust Box Capacity	520 Milliliters
Water Tank Capacity	160 Milliliters

Feature	Detail
Suction Power	4000 Pa
Wattage	46.08 watts
Voltage	19 Volts (AC)
Noise Level	55 dB
Battery Runtime	150 minutes
Compatible Devices	Smartphone
Special Features	Precision laser mapping and navigation, Automatic shutdown

8. WARRANTY AND SUPPORT

LEFANT products come with a standard warranty. Please refer to the warranty card included in your product packaging or visit the official LEFANT website for detailed warranty terms and conditions.

For technical support, troubleshooting assistance, or any other inquiries, please contact LEFANT customer service through the following channels:

- **Official Website:** www.lefant.com (Note: This is a placeholder URL, please refer to your product documentation for the correct support website.)
- **Lefant App:** Access support options directly within the Lefant mobile application.
- **Email Support:** Check the official website or product packaging for customer support email addresses.

When contacting support, please have your product model (M1) and purchase information ready.

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