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Lefant LS1

Lefant LS1 Lidar Robot Vacuum Cleaner User Manual

Model: LS1

1. INTRODUCTION

Thank you for choosing the Lefant LS1 Lidar Robot Vacuum Cleaner. This manual provides essential information for the safe operation, maintenance, and optimal performance of your device. Please read it thoroughly before use and retain it for future reference.



Image 1.1: The Lefant LS1 Lidar Robot Vacuum Cleaner, showcasing its sleek design and the accompanying mobile application interface.

2. PACKAGE CONTENTS

Ensure all items are present and in good condition upon unpacking.

- LS1 Robot Vacuum x 1
- Charging Dock x 1
- Power Adapter x 1
- 520 ml Dust Box x 1 (pre-installed or separate)
- HEPA Filters x 2
- Side Brushes x 4
- User Manual x 1

3. PRODUCT OVERVIEW

The Lefant LS1 is a Lidar-equipped robot vacuum designed for efficient floor cleaning. It features advanced navigation, app control, and powerful suction.

Key Features:

- **Lidar Navigation & Real-time Mapping:** Utilizes LDS (Lidar Distance Sensor) for precise mapping and navigation, allowing for real-time tracking and efficient cleaning paths.
- **No-Go Zones & Virtual Walls:** Define restricted areas via the mobile application to prevent the robot from entering specific spaces.
- **Compact Design:** With a reduced thickness and size, the LS1 can access more areas, including under furniture.
- **Quiet Operation:** Equipped with a brushless motor for reduced noise during cleaning cycles.
- **Smart Control:** Compatible with the Lefant App, Alexa, and Google Assistant for scheduling, mode selection, and voice commands (2.4GHz Wi-Fi required).
- **Powerful Suction:** Offers 3200Pa suction power with three adjustable levels, suitable for various floor types including hard floors, tiles, wood, marble, and low-pile carpets.
- **Long Runtime & Auto-Recharge:** Features a 4000mAh Lithium Iron Phosphate battery providing up to 150 minutes of cleaning time. Automatically returns to the charging dock when the battery is low.
- **Large Dustbin:** Includes a 520ml visible dustbin to minimize frequency of emptying.
- **Freemove 3.0 Technology:** Incorporates anti-fall and anti-collision sensors for safe operation around obstacles and stairs.

**Thin and small
Be able to cover more areas**

**Volume
Reduction**
-19.8%

Industry Average

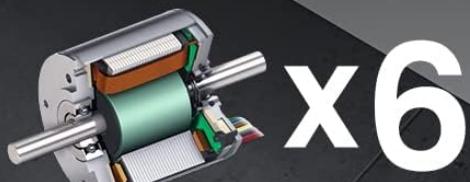


Reduction -19.8%

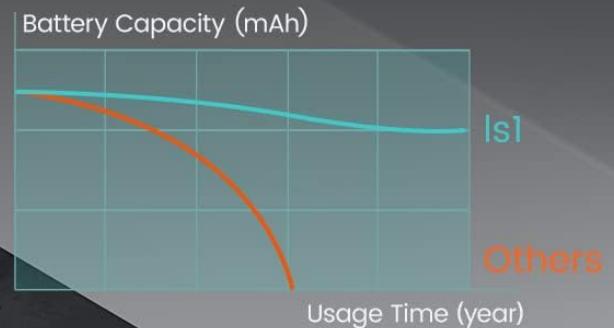
Image 3.1: The compact design of the Lefant LS1 allows it to clean under furniture, demonstrating its ability to cover more areas.

3X Machine Life

All are Brushless Motors



Low Attenuation Battery



Lithium Iron Phosphate Battery

Brushless Motors

Brushless Motors



Image 3.2: An internal diagram highlighting the durable brushless motors and the long-lasting lithium iron phosphate battery of the LS1.

Freemove 3.0™ Technology

+

LDS Navigation

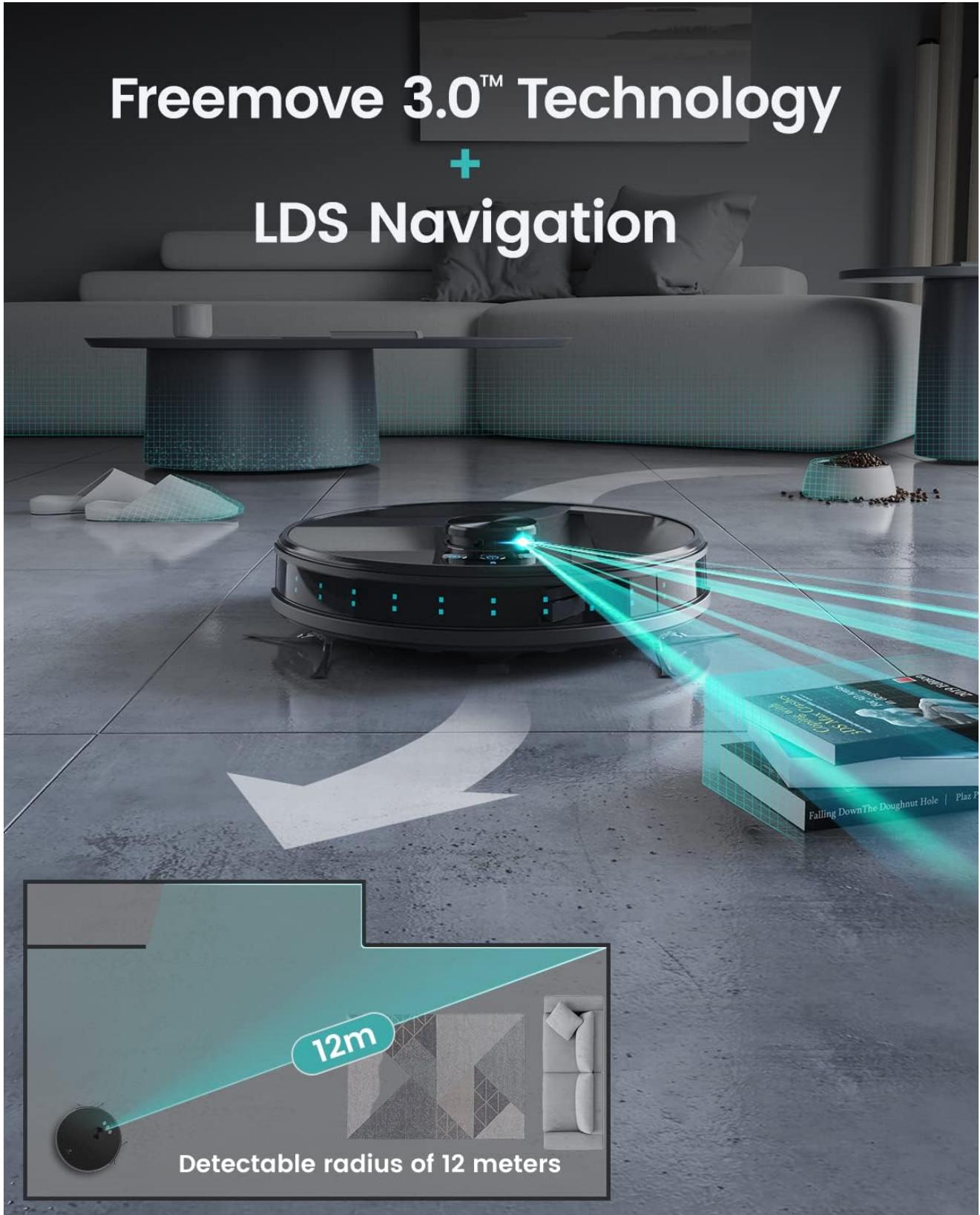


Image 3.3: The LS1 utilizing its LDS navigation system to detect its surroundings, with a detectable radius of 12 meters.

4. SETUP

4.1 Initial Charging

1. Place the charging dock against a wall in an open area, ensuring there are no obstacles within 1 meter to either side and 2 meters in front.
2. Connect the power adapter to the charging dock and plug it into a power outlet.
3. Place the robot vacuum onto the charging dock. Ensure the charging contacts on the robot align with those on the dock.

dock. The indicator lights on the robot will illuminate to confirm charging.

4. Allow the robot to fully charge before its first use.

4.2 Connecting to the Lefant App

The Lefant App allows for advanced control and scheduling of your robot vacuum.

1. Download the 'Lefant' app from your mobile device's app store.
2. Open the app and register or log in to your account.
3. Add your LS1 robot vacuum to the app by following the on-screen instructions.
4. Turn on the robot's red button switch (usually located on the side or bottom).
5. Press and hold the start button on the robot for 3 seconds until the Wi-Fi indicator light flashes.
6. Connect your mobile device to a 2.4GHz Wi-Fi network. The robot only supports 2.4GHz Wi-Fi.
7. Select and connect to the Wi-Fi network named 'Smart life-XXX' or similar, as prompted by the app.
8. Wait for the robot to pair successfully with the app.

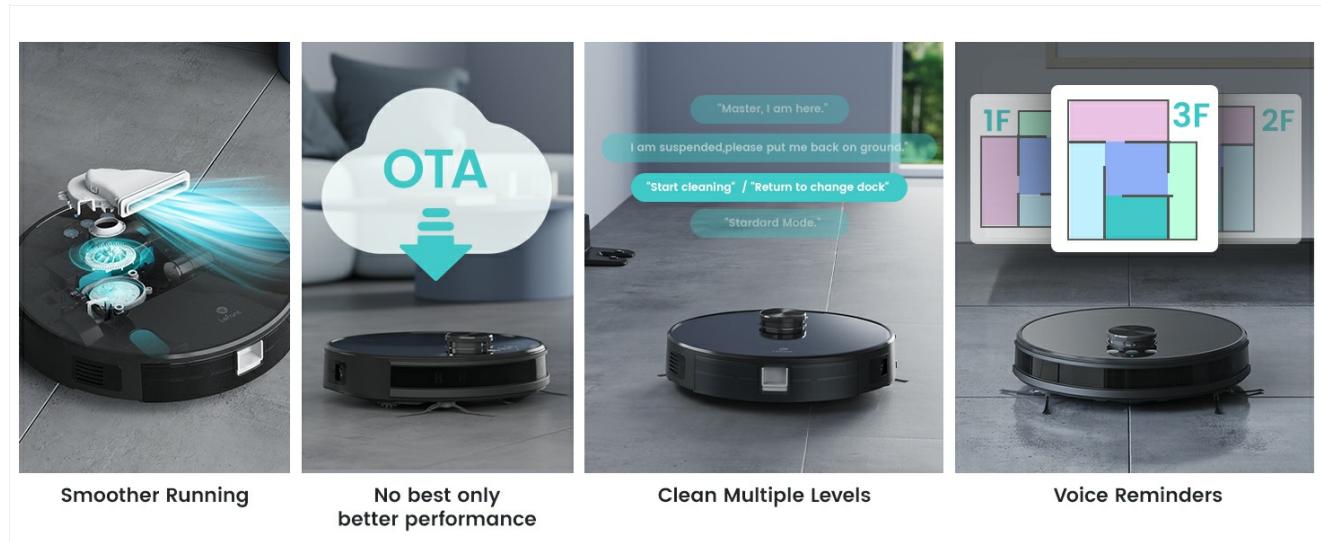


Image 4.1: Visual instructions for connecting the Lefant LS1 to the mobile application, detailing the pairing process.

4.3 Connecting to Alexa

Integrate your LS1 with Amazon Alexa for voice control.

1. Open the 'Lefant' app. Navigate to 'Mine' -> 'Voice third-party access service'.
2. Record your voice account and password as instructed.
3. Open the 'Alexa' app. Navigate to 'More' -> 'Skills & Games'.
4. Search for 'Smart Life'.
5. Click 'ENABLE TO USE'.
6. Select your region and enter the voice account password from step 2.
7. Wait for Alexa to connect successfully.

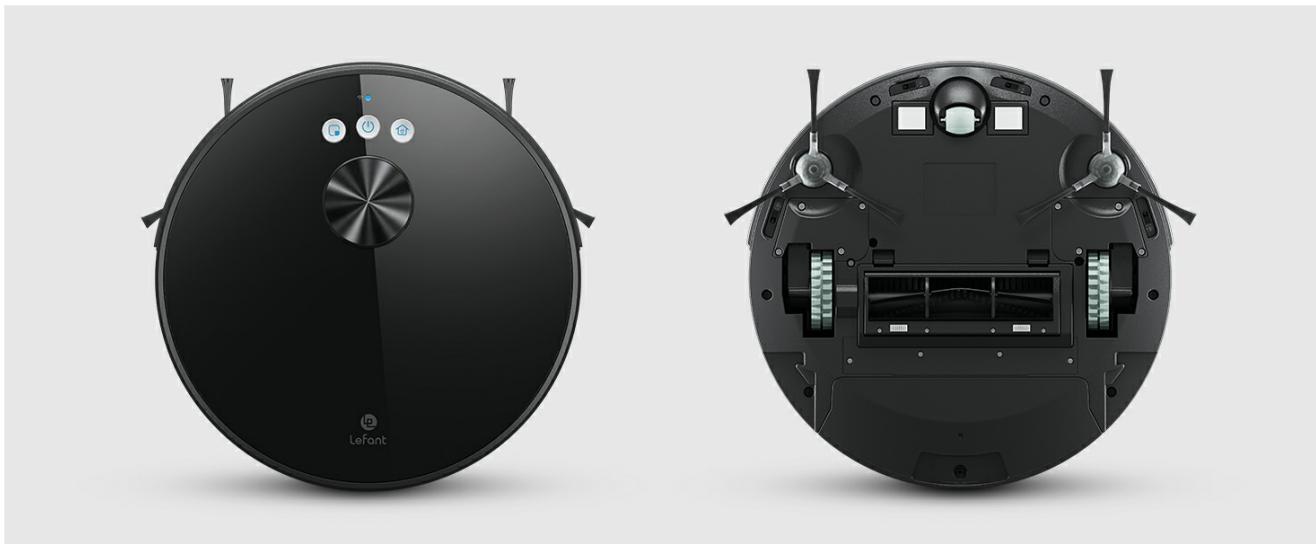


Image 4.2: Instructions for linking the Lefant LS1 with Amazon Alexa for voice command functionality.

5. OPERATING INSTRUCTIONS

5.1 Cleaning Modes

The Lefant LS1 offers various cleaning modes accessible via the Lefant App:

- **Scheduled Cleaning:** Set specific times for the robot to automatically clean.
- **Partial Cleaning:** Direct the robot to clean a specific area.
- **Spot Cleaning:** Focuses on a concentrated dirty area.
- **Zoned Cleaning:** Define custom zones on the map for targeted cleaning.

Fantastic APP Control

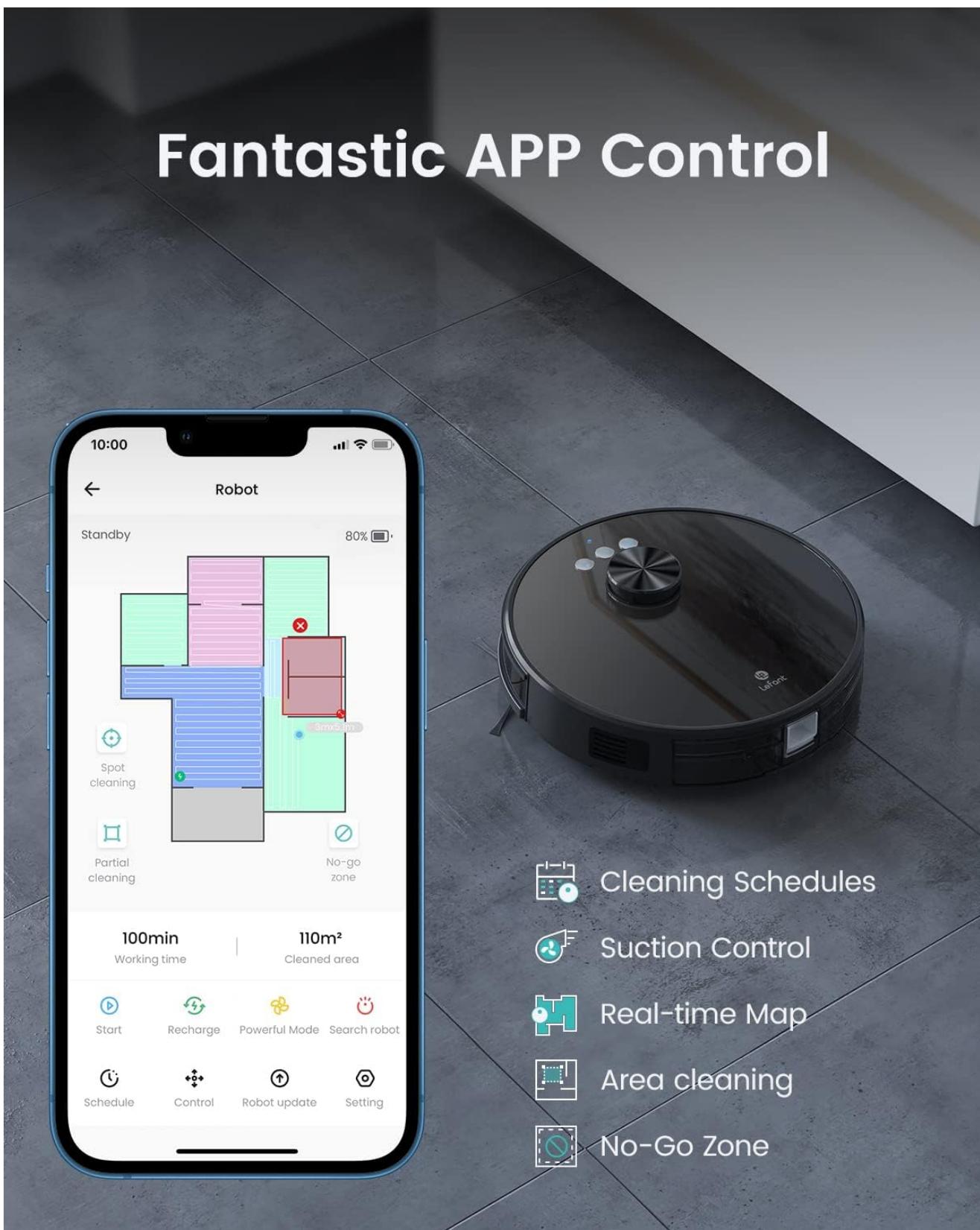


Image 5.1: The Lefant app interface, displaying options for cleaning schedules, suction control, real-time mapping, and defining cleaning areas or no-go zones.

5.2 Suction Power Adjustment

You can switch between three different suction power levels via the app to suit various cleaning needs and floor types.

5.3 No-Go Zones and Virtual Walls

Use the app to draw virtual boundaries or no-go zones on the map to prevent the robot from entering specific areas or disturbing delicate items.

Your Family Partner

Set cleaning zone and no-go zone



Image 5.2: The app's mapping feature, illustrating how to set no-go zones and designate areas for partial cleaning on a floor plan.

5.4 Voice Control

Once connected to Alexa or Google Assistant, you can use voice commands for basic operations:

- "Alexa, turn on LS1."
- "Alexa, turn on seek on the LS1."
- "Alexa, what's the LS1 Residual Electricity?"
- "Alexa, pause LS1."



Image 5.3: The LS1 demonstrating compatibility with voice assistants like Alexa, with examples of common voice commands.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your robot vacuum.

6.1 Emptying the Dustbin

The 520ml dustbin should be emptied regularly, especially after each cleaning cycle, to maintain suction power.

1. Press the dustbin release button and pull out the dustbin.

2. Open the dustbin lid and empty its contents into a trash receptacle.

6.2 Cleaning Filters

The HEPA filters and sponge filter should be cleaned periodically. The sponge filter is washable.

1. Remove the filters from the dustbin.
2. Tap the HEPA filter gently to remove dust. Do not wash the HEPA filter.
3. Rinse the sponge filter under running water until clean. Ensure it is completely dry before re-installing.
4. Replace filters as recommended (typically every 3-6 months, depending on usage).

6.3 Cleaning Side Brushes

Check side brushes for tangled hair or debris and clean them as needed. Replace worn brushes to ensure effective edge cleaning.

6.4 Cleaning Sensors and Charging Contacts

Wipe the Lidar sensor, anti-drop sensors, anti-collision sensors, and charging contacts on both the robot and the dock with a clean, dry cloth to ensure proper function.

7. TROUBLESHOOTING

If you encounter issues with your Lefant LS1, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Robot does not turn on.	Low battery; Power switch off.	Charge the robot; Ensure the red power switch is ON.
Robot cannot connect to Wi-Fi.	Incorrect Wi-Fi band (not 2.4GHz); Incorrect password; Router too far.	Ensure 2.4GHz Wi-Fi is used; Verify password; Move robot closer to router.
Robot gets stuck frequently.	Obstacles (cables, rugs); Sensors dirty.	Clear obstacles; Clean sensors.
Poor cleaning performance.	Full dustbin; Clogged filters; Worn side brushes.	Empty dustbin; Clean/replace filters; Replace side brushes.
Robot does not return to charging dock.	Dock obstructed; Dock not powered; Dirty charging contacts.	Ensure clear path to dock; Check power connection; Clean charging contacts.

For further assistance, please contact Lefant customer support.

8. SPECIFICATIONS

Detailed technical specifications for the Lefant LS1 Lidar Robot Vacuum Cleaner.

Feature	Specification
Brand	Lefant
Model Name	LS1
Colour	Black

Feature	Specification
Product Dimensions	32L x 32W x 9.4H Centimetres
Item Weight	3 kg
Dustbin Capacity	520 ml
Voltage	19 Volts (DC)
Number of Speeds	3
Noise Level	65 dB
Runtime	Up to 150 minutes
Battery Type	4000mAh Lithium Iron Phosphate
Compatible Models	Alexa, Google Home
Special Features	LiDAR Navigation, No-Go Zone, Smart Mapping, Self-Charging, Anti-Fall, Anti-Collision, Washable Filter
Surface Recommendation	Hard Floor, Carpet, Tile, Wood, Marble, Glass
Controller Type	App Control, Voice Control
Filter Type	Sponge

9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the warranty card included in your package or contact Lefant customer service directly. Details can typically be found on the official Lefant website or through your purchase platform.

Related Documents - LS1

 <small>User manual</small> <small>Lefant M210P Robot Vacuum Cleaner</small>	<p><u>Lefant M210P Robot Vacuum Cleaner User Manual</u></p> <p>Comprehensive user manual for the Lefant M210P Robot Vacuum Cleaner, covering setup, operation, maintenance, troubleshooting, and technical specifications.</p>
 -	<p><u>Manuel d'utilisation de l'aspirateur robot Lefant LS1</u></p> <p>Guide complet pour l'aspirateur robot Lefant LS1. Apprenez à installer, utiliser, entretenir et dépanner votre appareil. Inclut des consignes de sécurité essentielles et des spécifications techniques pour une performance optimale.</p>

<p>Congratulations on the purchase of your Lefant robot vacuum and mop. This manual will help you get the most out of your new product and keep your home clean and provide you a high-quality life.</p> <p>Should you encounter situations that have not been properly addressed in this manual, please contact our customer service center, we will solve your specific problems. For more information, please visit our website at www.lefant.com or send email to the following email address: support@lefant.com.</p> <p>The Lefant team is always working to improve the technology and/or design changes to this product continuous improvement.</p> <p>IMPORTANT SAFETY INSTRUCTIONS</p> <p>WARNING: Read all safety warnings and instructions. Failure to follow all instructions listed below may result in electric shock, fire, or personal injury. Do not use this appliance near water.</p> <p>For household use only</p> <p>When using an electrical appliance, basic precautions should always be followed, including the following:</p> <ol style="list-style-type: none"> 1. The robot must be used in accordance with the directions in this user manual. If a company cannot be held liable or responsible for damage or injury, it is the user's responsibility to read and understand the instructions. 2. Do not allow it to be used as a toy. Close attention is necessary when used near children. 3. Do not allow children to sit on the vacuum. 4. Use caution when plugging in power cords and small objects from the floor that could entangle the robot. Tuck rug edges and other loose items under the robot to prevent possible cords off the floor. 5. If the robot is used in the dry cleaning area due to a step or crack, you should operate the robot to ensure that it can detect the step necessary to place a physical barrier at the edge to keep the unit from falling off the step or crack. If the unit falls off the step or crack, it may damage the unit. 6. Only use as described in this manual. Only use attachments recommended by the manufacturer. 7. Please make sure your power supply voltage matches the power requirements on the unit. 8. Do not handle or plug in appliance with wet hands. 9. Do not use the robot in extremely hot or cold areas. 10. Do not use the robot in areas where the ambient temperature is in temperature above $10^{\circ}\text{C}/50^{\circ}\text{F}$ and below $40^{\circ}\text{C}/104^{\circ}\text{F}$ inclusive of changes in ambient temperature. Do not use the robot in areas outside of the temperature range specified. The maximum ambient temperature of the robot is $40^{\circ}\text{C}/104^{\circ}\text{F}$. Use of the specified range may damage the battery and increase the risk of fire. 11. Keep hands, loose clothing, fingers and parts of body away from the spinning or moving parts. 12. Do not use the robot in areas where an infant or child is sleeping. 13. Do not allow use outdoors. Do not use the robot outdoor, commercial or industrial environments. Do not use appliance on wet surfaces. 14. Do not allow the robot to pick up large objects like stones, large pieces of debris, or other sharp objects that could damage the robot. 15. Do not use the robot to pick up flammable or combustible materials such as gasoline, paint or copper tone, or use in areas where they may be present. 16. Do not use the robot to damage the power cord. Do not pull or carry the robot by the power cord. Do not pull or carry the robot by the power cord or handle, close or open the door on the power cord or pull power cord to close or open the door. Do not place the robot over the power cord. Keep power cord away from hot surfaces. Do not damage by pulling on cord to unplug, grasp the plug, not the cord. 17. Do not power cord is damaged, it must be replaced by the manufacturer or its service agent or a qualified service person. 18. Do not use the locking station if it is damaged. 19. Do not use the locking station if it is damaged. 20. Do not use the robot if it is damaged. Do not use the robot if it is not working properly or has been dropped, damaged, left outdoors, or is contaminated. Return the robot to the manufacturer or its service agent in order to avoid a hazard. 21. Do not remove the power switch before cleaning or maintaining the robot. Turn off the robot. 22. The plug must be removed from the receptacle before cleaning or maintenance. 23. Remove the robot from the docking station, and turn off the power switch before cleaning or maintenance, and then dispose of the robot. 24. The robot must be serviced and discarded according to local laws and regulations before disposal of the robot. 25. Do not dispose used batteries according to local laws and regulations. 26. Do not attempt to clean it if it is severely damaged. The customer can replace it in the. 27. When not using the docking station for prolonged periods, please turn off the robot. 28. Prevent unnecessary starting. Unnecessary starts are a major power drain. Turn off the robot when you are not using the appliance. Turning the robot off and on from other metal objects may damage the robot. 29. Do not use the robot if it is damaged. Do not use the robot if it is not working properly or has been dropped, damaged, left outdoors, or is contaminated. Return the robot to the manufacturer or its service agent in order to avoid a hazard. 30. Show warning signs caused by a damaged battery pack. 31. Do not modify or attempt to repair the robot or any battery pack. Do not attempt to repair the robot or any battery pack. 32. Do not operate the robot in a room that has on conduct on walls, floor or ceiling. 33. Do not operate the robot in a room that has on conduct on walls, floor or ceiling. 34. Exchange only with the charger specified by the manufacturer. 35. Avoid using the robot in a room that has on conduct on walls, floor or ceiling. 36. Do not use the robot with another battery pack. Use of any other battery pack may create a risk of fire and the robot controls believe that are only rechargeable by the manufacturer or its service agent or a qualified service person. 37. Customer service: If the robot does not work, do not charge the robot, power it off, and unplug the locking station. <p>SAVE THESE INSTRUCTIONS</p> <p>To satisfy all regulatory requirements, a separate device of 20 ohms is required to be connected to the device and persons during device operation.</p> <p>To satisfy all regulatory requirements, all devices at closer than this distance is not recommended the devices used must be co-located in conjunction with any other devices or transmitters.</p> <p>Correct Disposal of this Product</p> <p>The following indicates that this product should not be disposed of with other household wastes at the end of its working life. To protect the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of natural resources. To find out how to dispose of this product correctly, please contact your local office, your household waste collection services or the retailer where the product was purchased. They can safely dispose the product.</p> <p>Federal Communications Commission (FCC) Interference Statement</p> <p>This equipment has been tested and found to comply with the limits for a class A digital device pursuant to part 15 of the FCC rules.</p> <p>These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:</p> <ul style="list-style-type: none"> • Reorient or relocate the receiving antenna. • Increase the separation between the equipment and receiver. • Connect the equipment into a outlet on a circuit different from that to which the receiver is connected. • Consult the dealer or an experienced technician for help. <p>This device complies with part 15 of the FCC rules.</p> <p>Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.</p> <p>KCC Colleague</p> <p>Any unauthorized modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.</p> <p>IC Statement</p> <p>This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment must be installed and operated in strict accordance with the instructions and the antenna(s) used for this transmitter must be installed away from other antennas and transmitters. This equipment may not be co-located or operating in conjunction with any other antenna or transmitter.</p>	<p>OKP Robot Vacuum Cleaner Quick Start Guide</p> <p>A quick start guide for the OKP Robot Vacuum Cleaner, covering assembly, charging, usage, app configuration, and maintenance.</p>
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	<p><u>Lefant LS1 Robot Vacuum Cleaner User Manual: Setup, Operation, and Maintenance</u></p> <p>Comprehensive user manual for the Lefant LS1 Robot Vacuum Cleaner, providing detailed instructions on setup, operation, maintenance, troubleshooting, and technical specifications to ensure optimal performance and longevity.</p>
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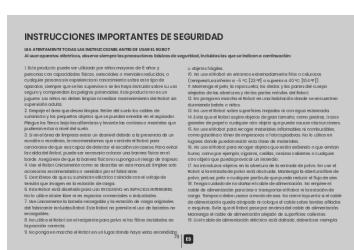
Documents - Lefant – LS1



[Lefant LS1 Robot Vacuum Cleaner User Manual](#)

Comprehensive user manual for the Lefant LS1 Robot Vacuum Cleaner, covering safety instructions, setup, operation, maintenance, troubleshooting, and technical specifications.

lang:en score:38 filesize: 8.88 M page_count: 22 document date: 2022-08-02



[\[pdf\] User Manual](#)

Lefant M210 1 V01 02 14 Robot aspirador Filtro HEPA LS1 Vacuum Cleaner User manual

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INSTRUCCIONES IMPORTANTES DE SEGURIDAD LEA ATENTAMENTE TODAS LAS INSTRUCCIONES ANTES DE USAR EL ROBO ... CA Caja de polvo Filtro HEPA Robot aspirador Cepillo lateral Herramienta para limpieza Lefant **LS1 Robot Vacuum Cleaner User manual Benutzerhandbuch Manuel de I Utilisateur Manuale d uso ...**

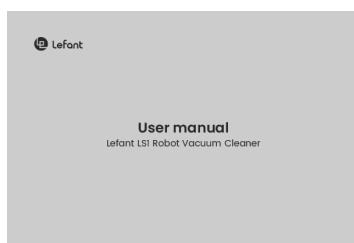
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[Lefant LS1 Robot Vacuum Cleaner User Manual](#)

Comprehensive user manual for the Lefant LS1 Robot Vacuum Cleaner, covering setup, operation, maintenance, and troubleshooting. Learn how to get the most out of your smart cleaning device.

lang:en score:32 filesize: 8.88 M page_count: 22 document date: 2023-08-21



[Lefant LS1 Robot Vacuum Cleaner User Manual: Setup, Operation, and Maintenance](#)

Comprehensive user manual for the Lefant LS1 Robot Vacuum Cleaner, providing detailed instructions on setup, operation, maintenance, troubleshooting, and technical specifications to ensure optimal performance and longevity.

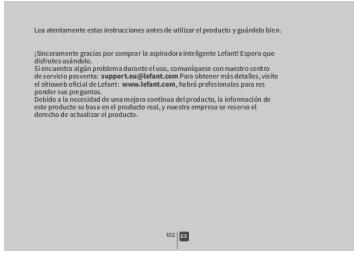
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[Manuel d'utilisation de l'aspirateur robot Lefant LS1](#)

Guide complet pour l'aspirateur robot Lefant LS1. Apprenez à installer, utiliser, entretenir et dépanner votre appareil. Inclut des consignes de sécurité essentielles et des spécifications techniques pour une performance optimale.

lang:fr score:24 filesize: 1.99 M page_count: 19 document date: 2022-08-25



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Lefant U180 1 2020 12 17 ¡Sinceramente gracias por comprar la aspiradora inteligente Lefant! Espero que disfrutes usándolo Si encuentra algún problema durante el uso C1K1w LrJ8Lm media amazon images | C1K1w LrJ8L ref dp product quick view ||| Lea atentamente estas instrucciones antes de utilizar el producto y gurdelo bien. Sinceramente graci ... do de la caja Robot Cubo de basura y tanque de agua 2 en 1 Estacin de carga Adaptador de red **LS1** Filtro de alta eficiencia Cepillos laterales Pao de limpieza, plato y pao de limpieza Manual... lang:es score:20 filesize: 4.17 M page count: 25 document date: 2022-05-20

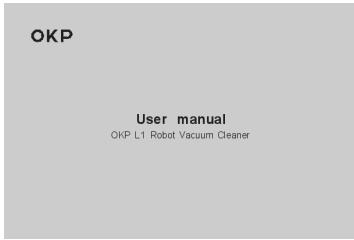
Si vous avez acheté l'application indiquée, veuillez nous indiquer quelles sont vos préférences et votre avis.
Si vous avez des questions liées à votre utilisation, veuillez nous envoyer une question de service après-vente : support@getbeebus.com. Pour plus de détails, veuillez visiter la page www.getbeebus.com, où vous aurez des préférences pour répondre à vos questions.

Si nécessaire, la remise d'une émission de vente de ces produits, les informations suivantes doivent être indiquées :

Manuel d'utilisation de l'aspirateur robot Lefant M210

Guide complet pour l'utilisation, l'installation et l'entretien de l'aspirateur robot intelligent Lefant M210. Découvrez les consignes de sécurité, le dépannage et les spécifications techniques.

lang:fr score:19 filesize: 5.75 M page_count: 19 document date: 2022-06-16



[OKP L1 Robot Vacuum Cleaner User Manual](#)

Comprehensive user manual for the OKP L1 Robot Vacuum Cleaner, detailing setup, operation, maintenance, safety precautions, troubleshooting, and technical specifications.

lang:en score:12 filesize: 470.59 K page_count: 21 document date: 2023-09-23