



Robot Vacuum Cleaner | M2

Instruction Manual

Congratulations on the purchase of your Lefant ROBOTICS!

We hope it brings you many years of satisfaction. We trust the purchase of your new robot will help keep your home clean and provide you more quality time to do other things.

Wisdom Inspired Freedom

Should you encounter situations that have not been properly addressed in this Instruction Manual, please contact our Customer Service Center where a technician can address your specific problem or question.

For more information, please visit the Lefant ROBOTICS official website:

www.lefant.com or send email to **support.eu@lefant.com**

The Company reserves the right to make technological and/or design changes to this product for continuous improvement.

Important Safety Instructions

IMPORTANT SAFETY INSTRUCTIONS

When using an electrical Appliance, basic precautions should always be followed, including the following:

READ ALL INSTRUCTIONS BEFORE USING THIS APPLIANCE

1. This Appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the Appliance in a safe way and understand the hazards involved. Children shall not play with the Appliance. Cleaning and user maintenance shall not be made by children without supervision.
2. Clear the area to be cleaned. Remove power cords and small objects from the floor that could entangle the Appliance. Tuck rug fringe under the rug base, and lift items such as curtains and tablecloths off the floor.
3. If there is a drop off in the cleaning area due to a step or stairs, you should operate the Appliance to ensure that it can detect the step without falling over the edge. It may become necessary to place a physical barrier at the edge to keep the unit from falling. Make sure the physical barrier is not a trip hazard.
4. Only use as described in this manual. Only use attachments recommended or sold by the manufacturer.
5. Please make sure your power supply source voltage matches the power voltage marked on the Docking Station.
6. For INDOOR household use ONLY. Do not use the Appliance in outdoor, commercial or industrial environments.
7. Use only the original rechargeable battery and Docking Station provided with the Appliance from the manufacturer. Non- rechargeable batteries are prohibited.
8. Do not use without Dustbin and/or filters in place.
9. Do not operate the Appliance in an area where there are lit candles or fragile objects.
10. Do not use in extremely hot or cold environments (below -5°C/23°F or above 40°C/104°F).
11. Keep hair, loose clothing, fingers, and all parts of body away from any openings and moving parts.
12. Do not operate the Appliance in a room where an infant or child is sleeping.
13. Do not use Appliance on wet surfaces or surfaces with standing water.







14. Do not allow the Appliance to pick up large objects like stones, large pieces of paper or any item that may clog the Appliance.
15. Do not use Appliance to pick up flammable or combustible materials such as gasoline, printer or copier toner, or use in areas where they may be present.
16. Do not use Appliance to pick up anything that is burning or smoking, such as cigarettes, matches, hot ashes, or anything that could cause a fire.
17. Do not put objects into the suction intake. Do not use if the suction intake is blocked. Keep the intake clear of dust, lint, hair, or anything that may reduce air flow.
18. Take care not to damage the power cord. Do not pull on or carry the Appliance or Docking Station by the power cord, use the power cord as a handle, close a door on the power cord, or pull power cord around sharp edges or corners. Do not run Appliance over the power cord. Keep power cord away from hot surfaces.
19. If the power cord is damaged, it must be replaced by the manufacturer or its service agent in order to avoid a hazard.
20. Do not use the Docking Station if it is damaged. The power supply is not to be repaired and not to be used any longer if it is damaged or defective.
21. Do not use with a damaged power cord or receptacle. Do not use the Appliance or Docking Station if it is not working properly, has been dropped, damaged, left outdoors, or come in contact with water. It must be repaired by the manufacturer or its service agent in order to avoid a hazard.
22. Turn OFF the power switch before cleaning or maintaining the Appliance.
23. The plug must be removed from the receptacle before cleaning or maintaining the Docking Station.
24. Remove the Appliance from the Docking Station, and turn OFF the power switch to the Appliance before removing the battery for disposal of the Appliance.
25. The battery must be removed and discarded according to local laws and regulations before disposal of the Appliance.
26. Please dispose of used batteries according to local laws and regulations.
27. Do not incinerate the Appliance even if it is severely damaged. The batteries can explode in a fire.
28. When not using the Docking Station for a long period of time, please unplug it.

29. The Appliance must be used in accordance with the directions in this Instruction Manual. Our company cannot be held liable or responsible for any damages or injuries caused by improper use.
30. The robot contains batteries that are only replaceable by skilled persons. To replace the robot's battery, please contact Customer Service.
31. If the robot will not be used for a long time, power OFF the robot for storage and unplug the Docking Station.
32. **WARNING:** For the purposes of recharging the battery, only use the detachable supply unit provided with the Appliance.

SAVE THESE INSTRUCTIONS

To satisfy RF exposure requirements, a separation distance of 20 cm or more should be maintained between this device and persons during device operation.

To ensure compliance, operations at closer than this distance is not recommended. The antenna used for this transmitter must not be co-located in conjunction with any other antenna or transmitter.

	Short-circuit-proof safety isolating transformer
	Switch mode power supply
	For indoor use only
	Direct current
	Alternating current
	detachable supply unit



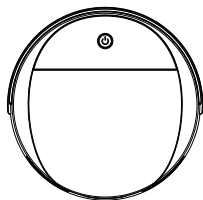
Correct Disposal of this Product

This marking indicates that this product should not be disposed of with other household waste throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To recycle your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can safely recycle this product.

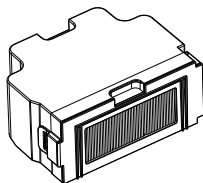
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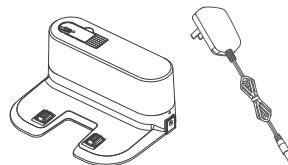
1. Package Contents /1.1 Package Contents



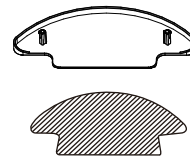
Robot



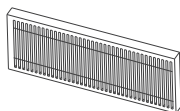
Dust Bin



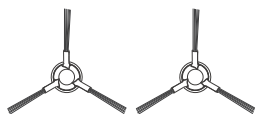
Docking Station
Power Adapter



Mopping Cloth
& Mopping Cloth Bracket



High Efficiency Filter



Side Brushes



Instruction Manual

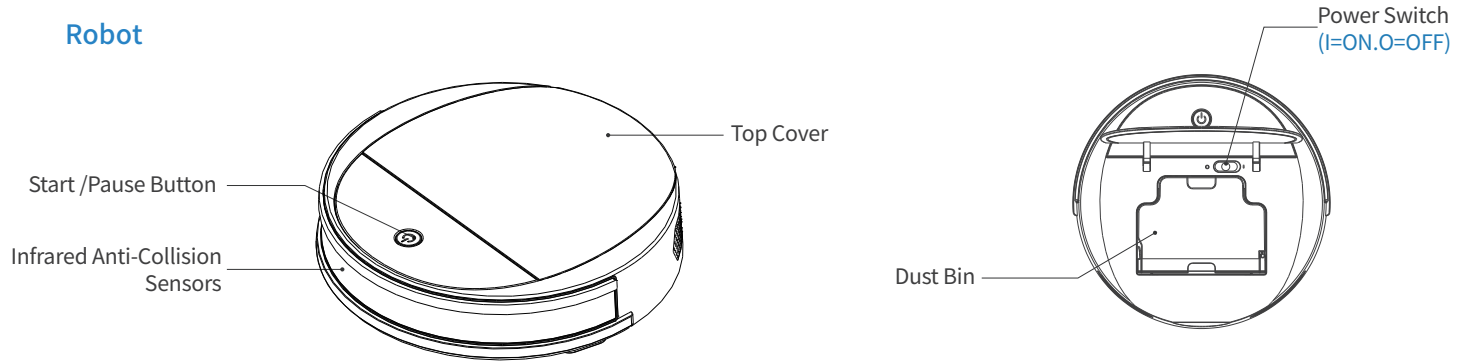


Disposable Mopping Cloth

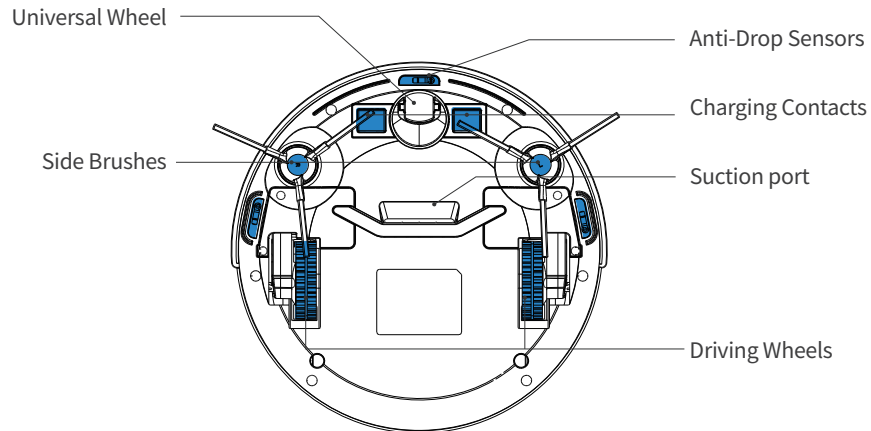
Note: Figures and illustrations are for reference only and may differ from actual product appearance. Product design and specifications are subject to changes without notice.

1. Package Contents /1.2 Product Diagram

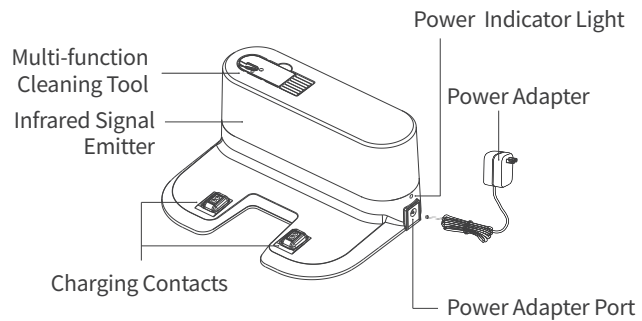
Robot



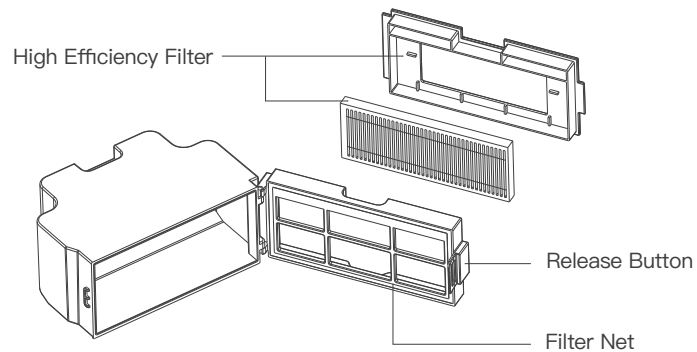
Bottom



Docking Station

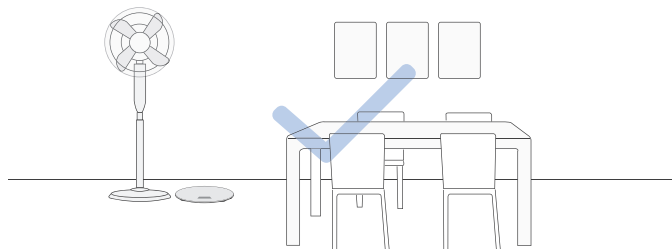


Dust Bin

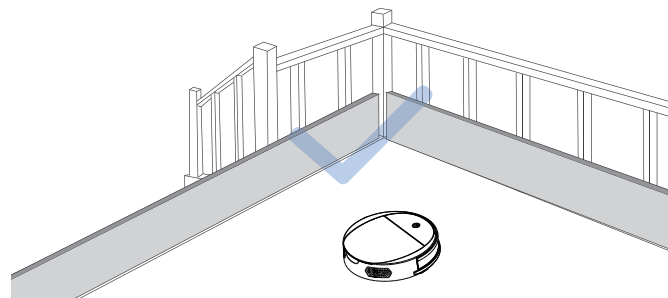


2. Operating and Programming /2.1 Notes Before Cleaning

- ❶ Tidy up the area to be cleaned by putting furniture, such as chairs, in their proper place.



- ❷ It may be necessary to place a physical barrier at the edge of a drop to stop the unit from falling over the edge.



Put away objects including wires, cloths and slippers, etc. on the floor to improve the cleaning efficiency.



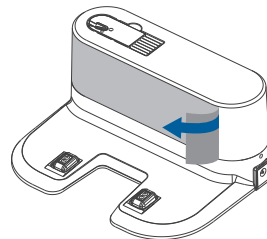
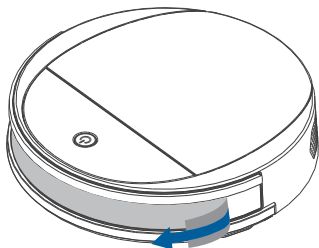
Before using the product on a rug with tasseled edges, please fold the rug edges under.



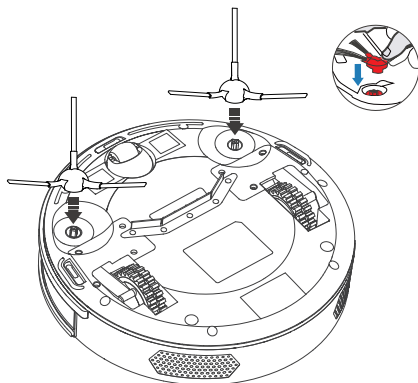
Please do not stand in narrow spaces, such as hallways, and make sure not to block Robot.

2. Operating and Programming /2.2 Quick Start

1 Remove Protective Materials

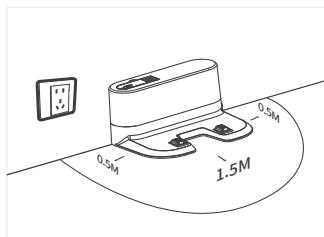


2 Install Side Brushes

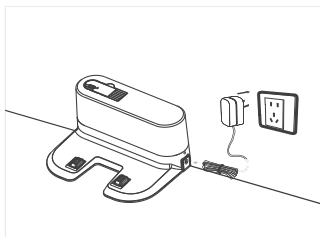


2. Operating and Programming / 2.3 Charging Robot

1 Docking Station Placement

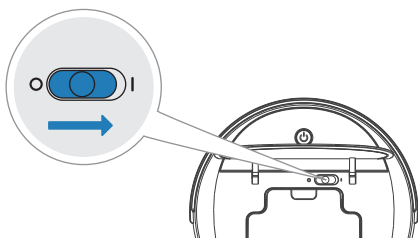


Place the charging Dock



Connect the power supply

2 Power ON



Note: I = ON, O = OFF

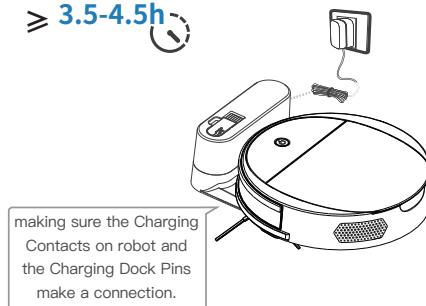
! Robot cannot be charged when being powered OFF.

3 Charge Robot

⏻ flashes when Robot is charging.

⏻ goes out when Robot is fully charged

≥ 3.5-4.5h



*It is suggested to avoid picking up or moving Robot during the cleaning for Robot to return to charge successfully.

2. Operating and Programming /2.4 App Download

To enjoy all available features , it is recommended to control your Robot via the Lefant Life App.

Before you start, make sure that:

- Your mobile phone is connected to a Wi-Fi network.
- The 2.4GHz band wireless signal is enabled on your router.

Download and Install App

Method 1: Scan the QR code, download and install the App according to the prompts.



under the cover

Method 2: Search for "Lefant Life", download and install.




☒ IOS 9.0 or later ☒ Android 4.0 or later

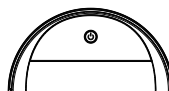
Add device & Pair the network through the app

Open the “Lefant Life” APP and log in (new users need to register first). Select <Add device> on home page. Then pair the network following the detailed instructions in the app.

Reset the device

If you experience with network pairing failure, please reset the device.


1. Turn on the power switch on your robot.
2. Press the  button on your robot for 3 seconds to enter EZ network pairing mode (robot gives 1 beep); press it for another 3 seconds to enter AP network pairing mode (robot gives 2 beeps).



Indicator light

- Wait for connection: EZ mode: blue light flashing rapidly
AP mode: blue light flashing slowly
- Connecting / Wi-Fi connected: solid blue

Notes:

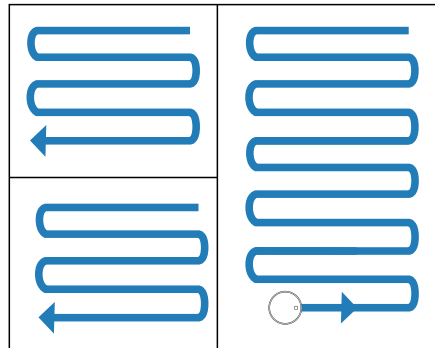
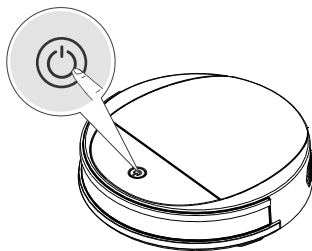
- This device only supports 2.4GHz Wi-Fi network. (not compatible with 5GHz Wi-Fi)
- If you experience with network pairing failure, please restart the robot and start over again. Or try the other network pairing method instead (touch  on the upper right corner).

2. Operating and Programming /2.5 Start Cleaning

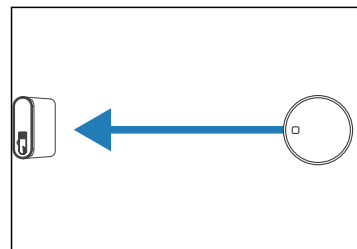
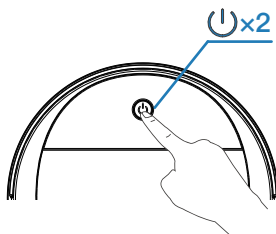
During the first cleaning, please supervise Robot and assist it should there be a problem.

1 Auto Cleaning Mode

Robot will clean in Programmed Cleaning Pattern optimized designed for hard floors cleaning by default.



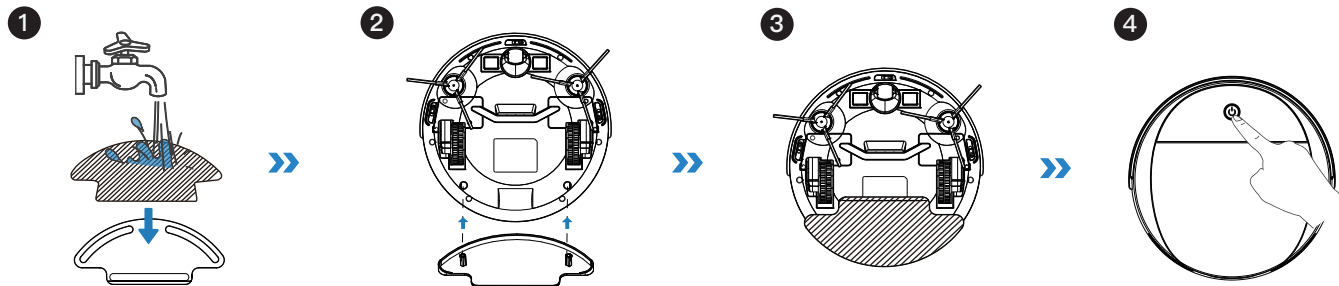
2 Return to Charging Dock



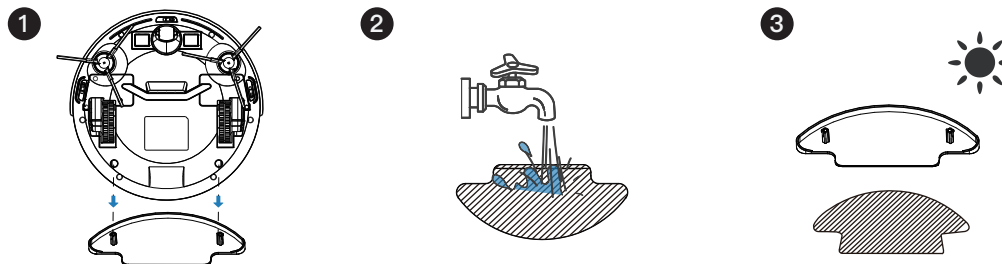
2.Operating and Programming /2.6 Mopping Function

- Notes:**
- Do not use mopping function on carpets.
 - Cleaning the mop cloth every 60 minutes to ensure the cleaning effect.
 - Please remove the mopping cloth bracket before charging the robot.

Use the mopping function



Maintenance



3.Maintenance /3.1 Regular Maintenance

To keep Robot running at peak performance, perform maintenance tasks and replace parts:

Robot Part	Maintenance Frequency	Replacement Frequency
Side Brush	Once every 2 weeks	Every 3-6 months
High Efficiency Filter	Once per week	Every 3-6 months
Universal Wheel Anti-Drop Sensors Infrared Anti-Collision Sensors Charging Contacts Docking Station Pins Dust Bin	Once per week	/

Before performing cleaning and maintenance tasks on Robot turn the robot OFF and unplug the Docking Station. A multi-function Cleaning Tool is provided for easy maintenance. Handle with care, this cleaning tool has sharp edges.

Note: We manufacture various replacement parts and fittings. Please contact Customer Service for more information on replacement parts.

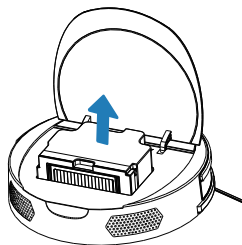
3.Maintenance /3.2 Dust Bin

⚠ Warning:

Do not use water to clean
Dust Bin and filter materials!



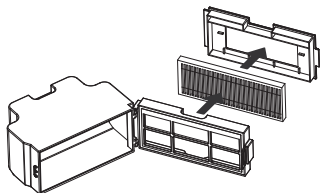
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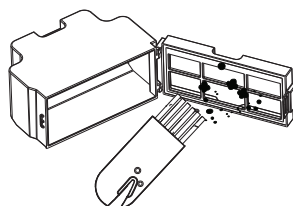
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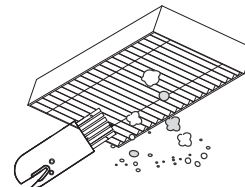
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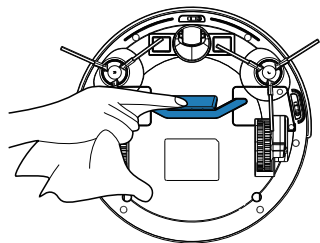


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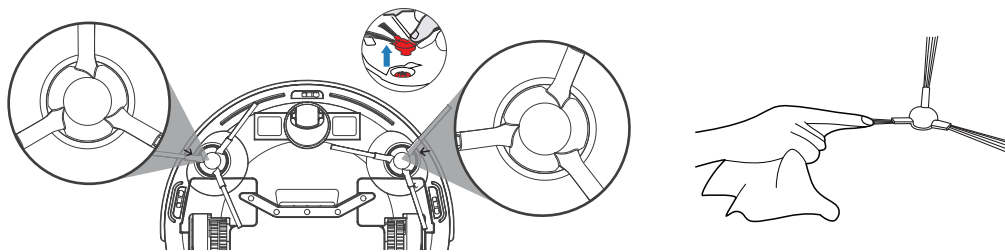


3.Maintenance /3.3 Direct Suction Option and Side Brushes

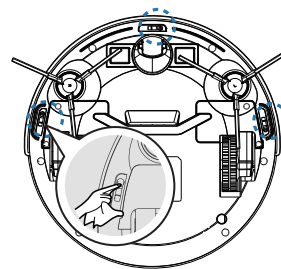
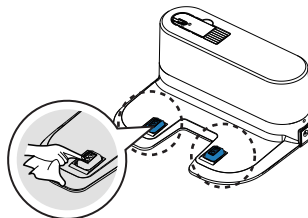
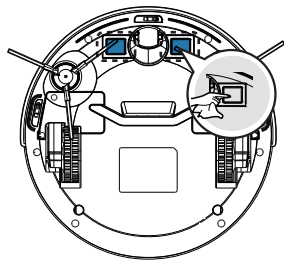
1 Direct Suction Option

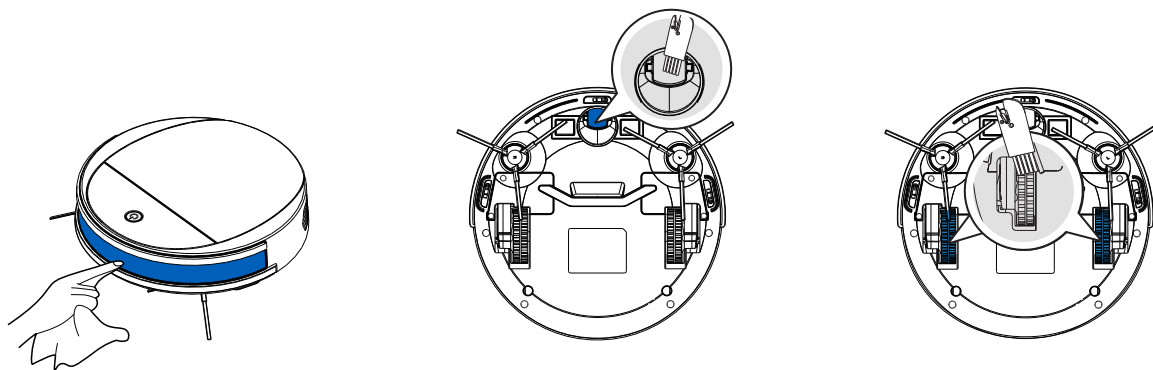


2 Side Brushes



3.Maintenance /3.4 Other Components





4.Indicator Light and Alarm Sounds /4.1 Indicator Light

Status	Start/Pause Button
The Robot is charging	Flashes BLUE/ PINK
The Robot has a problem	Flashes RED or glows a continuous RED
The Robot has low battery	Glows a continuous RED
The Robot is cleaning	Glows a continuous BLUE
In the state “pending for network configuration”	Flashes BLUE
Network configuration in progress/Reconnection after the signal is lost	Network configuration ends in 3 minutes. BLUE light off
Network configuration completed	Glows a continuous BLUE

4.Indicator Light and Alarm Sounds /4.2 Alarm Sounds

If Robot detects a problem, it emits alarm beeps and the Start/Pause Button flashes RED or glows RED.

Glowing a solid RED			
No.	Cause of issue	Beeps	APP Error prompts and solutions
1	Driving Wheel malfunction	1 Beep sounds 3 times	Check Driving Wheel for tangled hair or debris and clean as described in section 3 Maintenance
2	Side Brush malfunction	2 Beep sounds 3 times	Check Side Brushes for tangled hair or debris and clean as described in section 3 Maintenance
3	Vacuum fan not working normally	3 Beep sounds 3 times	Vacuum fan does not work normally. Remove the dirt in the dust bin and clean the vacuum inlet
4	No Dustbin	5 Beep sounds 3 times	Please install the Dustbin.
Flashing RED			
No.	Cause of issue	Beeps	APP Error prompts and solutions
1	Floor sensor alarms	2 Beep sounds 3 times	The is Robot longer in contact with the Floor. Put it back onto the floor
2	The robot is suspended or Stuck	3 Beep sounds 3 times	Place the robot on an even surface, or remove the obstacles, and restart the robot
3	Low Battery	4 Beep sounds 3 times	Manually place the robot on the Charging Dock to charge
4	Charging adapter not working normally	5 Beep sounds 3 times	The charging voltage is abnormal. Clean the Charging Contacts of the Docking Station and Robot, and make sure that you are using the original adapter
5	Charging error	6 Beep sounds 3 times	There is an error in charging. Check if the power switch is turned on

Tips: If the problem cannot be solved by means of the above mentioned measures, please try to turn on the power switch beneath the face plate once again and restart the device.

5.Troubleshooting /5.1 Troubleshooting

No.	Malfunction	Possible Cause	Solutions
1	Robot is not able to connect to the home Wi-Fi network	Incorrect home Wi-Fi username or password entered	Enter the correct home Wi-Fi username and password
		Robot is not within range of your home Wi-Fi signal	Make sure Robot is within range of your home Wi-Fi signal
		Network setup started before Robot was ready	The network can only be configured when the device is in the state “Pending for configuration”. See the instructions given by the app
		Robot does not support 5 GHz Wi-Fi	Make sure the robot has been connected with 2.4 GHz Wi-Fi network
2	Robot is not charging	Robot is not switched ON	Switch ON Robot
		Robot has not connected to the Docking Station	Be sure that the robot's Charging Contacts have connected to the Docking Station Pins. Check if the Charging Contacts of the Docking Station or Robot are contaminated. Clean the parts according to measures described in the section “Maintenance”
		The Docking Station is not connected to the power supply	Make sure the Docking Station is connected to the power supply
		The battery is fully discharged after the device is not in use for a long time	It is recommended to use the device on a regular basis. If it is not in use for a long period of time and cannot be charged, please contact our Customer Service personnel
3	Robot cannot return to the Docking Station	The Docking Station is not correctly placed	Refer to Section 2.3 correctly place the Docking Station
		The Docking Station is not correctly connected	Make sure the Docking Station is correctly connected
		The Docking Station is manually moved during the cleaning	It is suggested not to move the Docking Station during the cleaning
		Robot did not start cleaning from the Docking Station	Make sure Robot starts cleaning from the Docking Station

No.	Malfunction	Possible Cause	Solutions
4	Robot misses cleaning spots to be cleaned, or repeats cleaning the area cleaned	The cleaning cycle is interfered by small objects or barriers on the floor	Remove power cords and small objects from the floor to ensure cleaning efficiency. Robot will automatically clean the area missed, please avoid moving Robot manually or block the path during the cleaning cycle
		Robot is working on slippery polished floors	Make sure the floor wax is dried before Robot starts cleaning
		Robot is unable to reach certain areas blocked by furniture or barriers	Tidy up the area to be cleaned by putting furniture and small objects in their proper place
5	Robot gets stuck while working and stops	Robot gets stuck while working and stops	Robot will try various ways to free itself. If it is unsuccessful, manually remove the obstacles and restart
		Robot might be stuck under furniture with an entrance of similar height	It is recommended to raise the furniture a little bit or block it with appropriate means
6	Robot is making too much noise when cleaning	Robot is tangled or blocked with debris	Clean Robot as described in section Maintenance and restart. If the trouble persists, please contact Customer Care

5.Troubleshooting /5.2 Wi-Fi Connection

Before Wi-Fi setup, make sure Robot, mobile phone, and Wi-Fi network meet the following requirements.



Robot and Mobile Phone Requirements

- Robot is fully charged and the power switch of Robot is turned on.
- Robot is ready for network setup.
- Turn off mobile phone's cellular data (you can turn it back on after setup).

Wi-Fi Network Requirement

- You are using a 2.4G Hz or 2.4/5 GHz mixed network.
- Your router supports 802.11b/g/n and IPv4 protocol.
- Do not use a VPN (Virtual Private Network) or Proxy Server.
- Do not use a hidden network.
- WPA and WPA2 using TKIP PSK, AES/CCMP encryption.
- WEP EAP (Enterprise Authentication Protocol) is not supported.
- Use Wi-Fi channels 1-11 in North America and channels 1-13 outside North America (refer to local regulatory agency).
- If you are using a network extender/repeater; the network name (SSID) and password are the same as your primary network.

6.Product Specifications

Model	M213S		
Rated Input	19 V  0.6A 11.4W		
Docking Station Model	L1		
Rated Output Voltage	19 V 	Rated Output Current	0.6A
Power Adapter Model	AD-0121900060UK		
Power Adapter Input	100-240V~ 50-60Hz 0.5A		
Power Adapter Output	DC 19V, 0.6A, CLASS II		
Off/Standby Mode Power	Less than 0.5W		
Networked Standby Power	Less than 2.00W		

***Note:** Technical and design specifications may be changed for continuous product improvement.

Warranty

This warranty covers the repair or replacement of the malfunction device at our company's discretion for a period of 1-year. In addition this certificate is void if altered. The serial number must be provided as well as all accessories to be eligible for warranty coverage. Please kindly fill in below form accurately and completely.

Account Number: _____

Serial Number: _____

Date of Purchase: _____

Important:

When returning this device, carefully pack the product to avoid damage in shipping. Damage in shipping is not covered by the Warranty and shall be the sole responsibility of Buyer. Damage or loss not covered by this Warranty or occurring outside the Warranty Period will require a fee to cover the cost of handling and shipping. All such fees and costs shall be the sole responsibility of Buyer.

Exclusion

Unless agreed in writing, the warranty will not apply if the defects relate to:

- Consumable parts such as filters, or brushes etc, that are subject to normal wear and tear, and require regular maintenance and/or replacement to ensure the proper functioning of your unit.
- Defects caused by rough or inappropriate handling or use or damage caused by accident, misuse, neglect, fire, water, lighting or other acts of nature, external sources such as weather, electrical outages or power surges.
- Improper operation or maintenance, use not in accordance with the product instructions or connection to improper voltage supply.
- Accident, abuse, misapplication, or any unauthorized repair, modification, or disassembly of the product.
- Any failure to adequately package the Product for transportation.
- Use of parts not in accordance with the product instructions.
- Use of parts and accessories other than those produced or recommended by our company.
- Use in a commercial environment as the Product is designed for residential use only.
- Consequential and incidental damages.
- Any product(s) purchased from unauthorized dealers/resellers.
- Products used outside the country of purchase.
- Lost and/or stolen products.



Official website

Shenzhen lohas Technology Co., LTD

<http://www.lefant.com> / support.eu@lefant.com

Building 2, Fashion Brand Industrial Park, E'Bu Town, Shenzhen-Shanwei Special Cooperation Zone,
Shenzhen, Guangdong, China.

M213S-LH20210922-V01