

Lefant T1

Lefant T1 Self-Cleaning Robot Mop User Manual

Model: T1

Brand: Lefant

Introduction	Safety Information	Package	Product Features	Setup	Operating
Maintenance	Troubleshooting	Contents	Specifications	Warranty & Support	

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Lefant T1 Self-Cleaning Robot Mop. Please read this manual thoroughly before using the product and retain it for future reference.



Image: The Lefant T1 Robot Mop positioned in front of its self-cleaning base station, with a smartphone displaying the mapping interface.

2. IMPORTANT SAFETY INFORMATION

To reduce the risk of injury or damage, read and follow all safety precautions and instructions provided in this manual.

- Ensure the robot mop is used indoors only.
- Do not allow children to operate the robot mop. Supervise children and pets when the robot is operating.
- Keep hair, loose clothing, fingers, and all body parts away from openings and moving parts.
- Do not use the robot mop to pick up large debris, liquids, or burning/smoking materials.
- Place the charging station on a level surface against a wall, ensuring adequate space around it for the robot to dock.
- Use only the manufacturer-specified power adapter and charging station.
- Before cleaning or maintenance, always turn off the robot mop and unplug the charging station.
- Avoid exposing the robot mop to water or other liquids, except for the designated water tanks.
- The robot mop contains a lithium polymer battery. Follow local regulations for disposal.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

Packing list



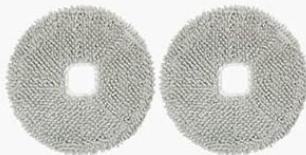
Robot



Self-Cleaning Station



Cleaner



Mop



Mop Bracket



Water Tank



Power Cable



User Manual

Image: A visual representation of all items included in the Lefant T1 Robot Mop package. This includes the robot, self-cleaning station, cleaner solution, two mop pads, two mop brackets, a water tank, power cable, and user manual.

- Lefant T1 Robot Mop
- Self-Cleaning Station
- Cleaner Solution
- Mop Pads (2)

- Mop Brackets (2)
- Water Tank
- Power Cable
- User Manual

4. PRODUCT FEATURES

- **Advanced dToF Navigation Technology:** Utilizes infrared light for precise 3D mapping, enabling accurate navigation, obstacle avoidance, and comprehensive cleaning without dead spaces. This technology is effective even in low-light conditions.



Image: The Lefant T1 robot mop navigating a room, illustrating its dToF laser mapping system with light beams detecting obstacles and mapping the environment.

- **Self-Cleaning Base Station:** The robot automatically returns to the charging dock after mopping to clean its mop pads. The base station uses 40°C hot water for washing and hot air for drying the mop pads, ensuring hygiene and preventing odors.



Image: A cutaway view of the Lefant T1 self-cleaning base station, highlighting the 5L water purification tank, 5L sewage tank, 370ml cleaning solution reservoir, and the mop hot air drying mechanism (55dB).

- **Adjustable Backwashing Levels:** Offers 4 levels of backwashing frequency (5, 10, 15 minutes) for the mop pads, using 40°C hot water. This allows for customized cleaning intensity based on floor dirtiness.
- **Water Shortage and Full Alarms:** The base station features a high-definition display screen that provides real-time status updates, including alarms for low clean water and full sewage tanks.
- **Ultrasonic Carpet Recognition:** Detects carpets and automatically reverses direction to avoid wetting them, ensuring professional mopping performance on hard floors.



Image: The Lefant T1 robot mop approaching a carpet, with blue lines indicating ultrasonic detection, and an arrow showing it reversing direction to avoid the carpet.

- **Compact Design with Large Capacity:** Despite its small body (11*10*3.5 inches), it features a 5L large water tank suitable for extensive mopping needs. Its compact size allows it to clean under and around furniture.
- **Long Battery Life:** Provides up to 180 minutes of runtime, with automatic return to the charging station when the battery is low or the cleaning cycle is complete.
- **Enhanced Obstacle Avoidance:** Equipped with three sets of line lasers and Freemove Full Body Electronic Sensor technology for anti-drop and anti-collision capabilities, accurately identifying obstacles to protect the device and extend its lifespan.
- **Double Rotating Mop:** Features mops that rotate at 180 rpm/min for deep cleaning and strong decontamination.

Double Rotating Mop 180 rpm/min



Image: An underside view of the Lefant T1 robot mop, showing its two rotating mop pads in action, indicated by blue swirling lines.

5. SETUP GUIDE

- 1. Unpacking:** Carefully remove all components from the packaging. Retain packaging for future transport or storage.
- 2. Charging Station Placement:**
 - Place the self-cleaning station on a hard, level surface against a wall.
 - Ensure there is at least 0.5 meters (1.6 feet) of clear space on both sides and 1.5 meters (5 feet) in front of the station for optimal robot docking.
 - Plug the power cable into the station and then into a wall outlet.

3. Initial Charging:

- Place the robot mop onto the charging station. Ensure the charging contacts on the robot align with those on the station.
- Allow the robot to fully charge before its first use. The indicator light on the robot will change to indicate a full charge.

4. Filling Water Tanks:

- Remove the clean water tank from the self-cleaning station.
- Fill the clean water tank with clean tap water and, if desired, the recommended cleaning solution. Do not overfill.
- Reinsert the clean water tank securely.
- Ensure the sewage tank is empty before starting a cleaning cycle.

5. Mop Pad Installation:

- Attach the mop pads to the mop brackets.
- Securely attach the mop brackets with pads to the underside of the robot mop.

6. App Connection (Optional but Recommended):

- Download the Lefant app from your smartphone's app store.
- Follow the in-app instructions to connect your Lefant T1 robot mop to your home Wi-Fi network.
- This enables advanced features like mapping, scheduling, and remote control.
- The robot is compatible with Alexa for voice control.



Image: A Lefant T1 robot mop and its base station next to an Amazon Echo device, illustrating voice control capability with the phrase "Alexa, turn on the T1!".

6. OPERATING INSTRUCTIONS

6.1. Starting a Cleaning Cycle

- **Manual Start:** Press the power button on the robot or the start button on the self-cleaning station to begin a cleaning cycle.
- **App Control:** Use the Lefant app to start, pause, or stop cleaning, and to select specific cleaning modes or areas.
- **Voice Control:** If connected to Alexa, use voice commands to initiate cleaning.

6.2. Smart Mapping and Navigation

The Lefant T1 uses dToF navigation to create a precise map of your home. This map allows for efficient cleaning paths and advanced features.

- **Initial Mapping:** During its first few runs, the robot will explore and map your home. Ensure all doors are open to allow it to map all accessible areas.
- **Multi-Picture Memory:** The robot can save up to 3 maps, allowing it to recognize different floors or layouts. To save a map, let the robot mop for more than 5 minutes and then click "Recharge" in the app.

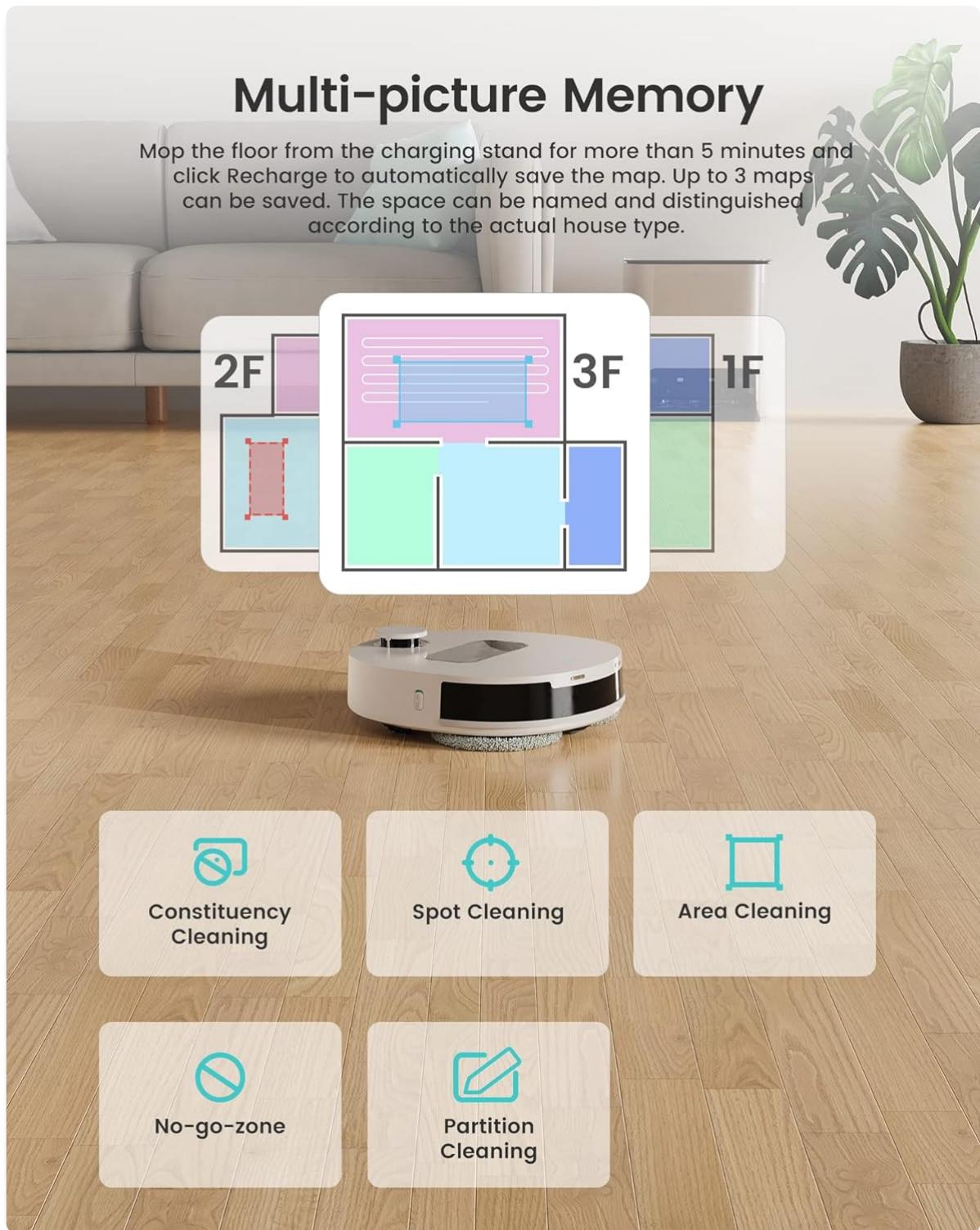


Image: The Lefant T1 robot mop on a wooden floor, with three overlaid maps (1F, 2F, 3F) showing different floor plans and cleaning zones, illustrating its multi-picture memory capability.

6.3. Cleaning Modes and Customization

- **Personalized Cleaning Plan:** Use the app to create custom cleaning plans for different rooms or areas. You can choose the number of cleaning passes and water output gear.

Create a Personalized Cleaning Plan



Image: A floor plan showing different rooms (Living Room, Dining Room, Children Room, Kitchen, Studio) with the Lefant T1 robot mop in the center, illustrating how users can create personalized cleaning plans and define "No-go zones" (e.g., in the Children Room).

- **No-Go Zones:** Define areas where the robot should not go (e.g., carpeted areas, pet bowls) using the app.
- **Spot Cleaning:** Direct the robot to clean a specific small area.
- **Area Cleaning:** Select specific rooms or zones on the map for cleaning.
- **Four Mop Modes:** Set the backwashing frequency to 5, 10, or 15 minutes. The robot will return to the base station to clean its mop pads at the selected interval.



Image: The Lefant T1 robot mop returning to its base station, illustrating the "Four Mop Modes" (5min, 10min, 15min) for automatic mop cleaning frequency, along with water level settings (Low, Middle, High, Closed).

7. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your Lefant T1 robot mop.

7.1. Self-Cleaning Station Maintenance

- **Clean Water Tank:** Refill with clean water and cleaning solution as needed. The display will alert you to low water levels.
- **Sewage Tank:** Empty the sewage tank when the display indicates it is full. Rinse the tank with clean water.
- **Drying Vent:** Periodically check and clean the hot air drying vent to ensure proper airflow.

Fully Automatic Cleaning Station

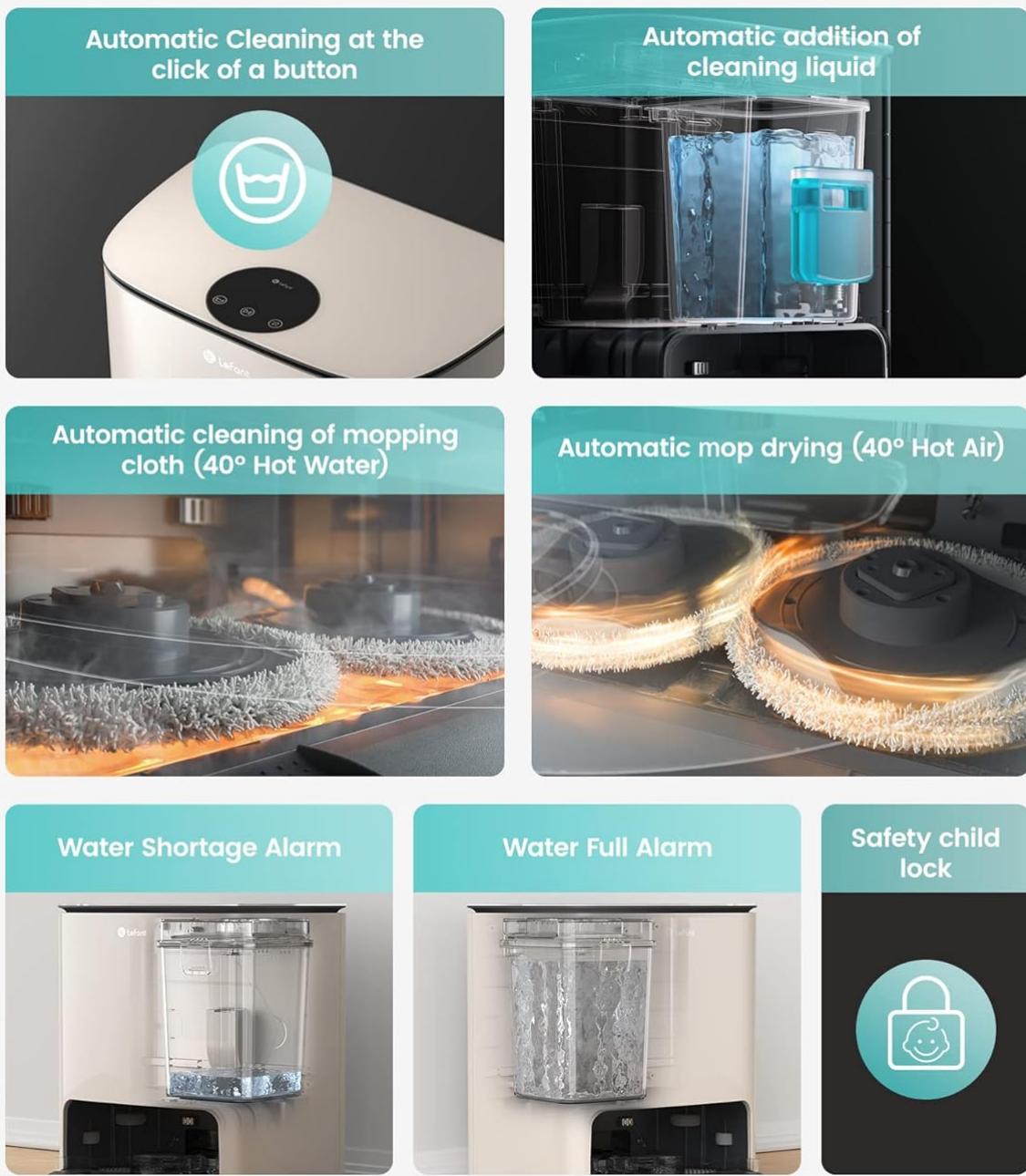


Image: A collage of images detailing the features of the Lefant T1's fully automatic cleaning station, including automatic cleaning at the click of a button, automatic addition of cleaning liquid, automatic cleaning of mopping cloth (40° Hot Water), automatic mop drying (40° Hot Air), water shortage alarm, water full alarm, and safety child lock.

7.2. Robot Mop Maintenance

- **Mop Pads:** The mop pads are automatically cleaned by the base station. For deeper cleaning or replacement, remove them from the mop brackets and wash them by hand or machine. Ensure they are completely dry before reattaching.
- **Sensors:** Regularly wipe the dToF sensors, anti-drop sensors, and obstacle avoidance sensors with a clean, dry cloth to ensure accurate navigation.
- **Wheels:** Check the wheels for any tangled hair or debris and clean as necessary.
- **Filter:** The robot mop includes a HEPA filter. Refer to the app or a more detailed manual for instructions on how to access and clean/replace the filter.

8. TROUBLESHOOTING

If you encounter issues with your Lefant T1, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
Robot does not start or respond.	Low battery; Power switch off; Robot stuck.	Charge the robot; Ensure power switch is on; Clear any obstructions.
Robot cannot return to charging station.	Charging station obstructed; Robot too far from station; Station unplugged.	Clear area around station; Manually place robot near station; Plug in station.
Poor cleaning performance.	Dirty mop pads; Empty clean water tank; Full sewage tank.	Clean/replace mop pads; Refill clean water tank; Empty sewage tank.
Robot gets stuck frequently.	Too many obstacles; Sensors dirty.	Clear clutter from floor; Clean all sensors.
App connection issues.	Incorrect Wi-Fi password; Router too far; App not updated.	Verify Wi-Fi credentials; Move robot closer to router; Update app.

For further assistance, please contact Lefant customer support.

9. SPECIFICATIONS

Feature	Detail
Brand	Lefant
Model Name	T1
Color	Champagne
Product Dimensions	11.5" L x 11" W x 3.5" H
Item Weight	37.3 pounds
Filter Type	HEPA
Battery Life	Up to 180 minutes runtime (2 years stated for battery life, likely warranty)
Voltage	20.5 Volts (DC)
Water Tank Capacity	500 Milliliters (Robot), 5 Liters (Base Station Clean/Sewage)
Power Source	Battery Powered
Control Method	App, Voice (Alexa, Google Home)
Navigation Technology	dToF Laser Mapping, Freemove Full Body Electronic Sensor
Special Features	Auto Mop Washing, LiDAR Navigation, Obstacle Avoidance, Smart Mapping, Ultrasonic Carpet Detection, 40° Hot Air Drying Mop
UPC	780627999306

10. WARRANTY AND SUPPORT

Lefant provides a warranty for its products. Please refer to the warranty card included in your package or visit the official Lefant website for detailed warranty terms and conditions.

For technical support, troubleshooting assistance, or to inquire about replacement parts, 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 website.)
- **Email Support:** Refer to your user manual or product packaging for the specific support email address.
- **In-App Support:** Access support features directly through the Lefant mobile application.

When contacting support, please have your product model (T1) and purchase information readily available.

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Related Documents

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use attachments recommended or sold by the manufacturer.

6. Please make sure your power supply voltage matches the base station.
7. Do not handle or plug appliance with wet hands.
8. Lithium-rechargeable batteries are prohibited.
9. Do not use without dust bin and/or filters in place.
10. Do not operate the robot in an area where there is a candle or fragile objects on the floor to be cleaned.
11. Do not use sand or dirt in a very hot or cold environment (below -5°C / 23°F or above 40°C / 104°F). Please charge the robot in a temperature above 0°C / 32°F and below 40°C / 104°F. Following charging instructions and do not charge the battery pack or appliance outside of the temperature range specified in the instructions. Charging improperly or at temperatures outside of the specified range may damage the battery and increase the risk of fire.
12. Keep hands loose clothing, fingers, and all parts of body away from any openings and moving parts.
13. Do not operate the robot in a room where an infant or child is sleeping.
14. Do not use ONLY. Do not use the robot in outdoor, commercial or industrial environments. Do not use Appliance on wet surfaces or surfaces with standing water.
15. Do not use the robot to pick up large objects like stones, large pieces of paper or any item that may clog the robot.
16. Do not use the robot to pick up flammable or explosive materials, such as gasoline, printer or copier toner, or use in areas where they may be present.
17. Do not use the robot to pick up anything that is hot or flaming, such as cigarettes, matches, hot ashes, or anything that could cause a fire.
18. Do not put any object into openings. Do not use with any opening blocked; keep free of dust, lint, hair, and anything that may reduce air flow.
19. Do not remove or damage the power cord. Do not pull on or carry the robot or the base 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 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.
20. If the power cord is damaged, it must be replaced by the manufacturer or its service agent or a qualified repair person.
21. Do not use the base station if it is damaged.
22. Do not use the robot or the base station if it is 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.
23. Turn OFF the power switch before cleaning or maintaining the robot. Turn off all controls.
24. The robot must be removed from the vehicle before cleaning or maintaining the base station.
25. Remove the robot from the base station, and turn OFF the power switch to the Appliance before removing the battery for disposal of the robot.
26. The battery must be removed and disposed of in accordance with local laws and regulations before disposal of the robot.
27. Please dispose of used batteries according to local laws and regulations.
28. Do not recharge the robot even if it is severely damaged. The batteries can explode in a fire.
29. When not using the base station for a long period of time, please unplug it.
30. Prevent unintended starting. Ensure the switch is in the off position before connecting to the power source, plugging up or turning the appliance. Carrying the robot with your finger on the switch or energizing the robot that have the switch on invites accidents.
31. If the robot is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws, etc. that can interfere with the robot's behavior. Shorting the battery terminals together may cause burns or a fire.
32. Under abusive conditions, liquid may be ejected from the battery. If this occurs, contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause burns or a fire.
33. Do not use a battery pack that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.
34. Do not expose a battery pack or appliance to fire or excessive temperature. Exposure to fire or temperature above 100°C / 269°F may cause explosion.
35. Have servicing performed by a qualified repair person using only identical replacement parts.
36. Do not modify or attempt to repair the robot or the battery pack (as applicable) except as described in the instructions.
37. Do not operate the robot in a room that has it corded on furniture that the vacuum may accidentally hit or bump into.
38. Do not use the robot in an area not specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
39. Use only the battery pack and only designated battery packs. Use of any other battery packs may create a risk of injury and fire.
40. The robot contains batteries that are only replaceable by skilled persons. To replace the robot's battery, please contact Customer Service.
41. If the robot is not going to be used for a long time, fully charge the robot, power it OFF, and store it in a cool place.

Safety INSTRUCTIONS

To satisfy RF exposure requirements, a separation distance of 20 cm or more should be maintained between this device and other transmitting device operations.

To ensure safe operations at closer than this distance is not recommended.

The antenna used for this transmitter must not be co-located or operating with any other antenna or transmitter.

	Short-circuit ground safety isolating transformer
	Switch mode power supply
	For indoor use only
	Direct current
	Alternating current
	Determinate 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, this product must be disposed, 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.



Cleaner Precautions

Keep this product away from heat sources. It is recommended that this product is stored in a cool place at 0-35°C in a dry and cool place. Keep this product out of the reach of children and pets. Do not allow this product to come into contact with eyes or skin. In case of contact, immediately flush with water. If eyes are affected, continue rinsing eyes gently and gently with plenty of water for at least 15 minutes; for contact lens wearers remove contact lenses for the first 5 minutes and continue to rinse eyes. If skin contact occurs, wash off with warm, soapy water. If symptoms persist after these actions, seek medical attention. If this product is swallowed, do not induce vomiting. If this product is inhaled, move to fresh air. If this product is ingested, rinse your mouth or drink plenty of water. If symptoms persist after these actions, seek medical attention immediately. Do not add other liquids to this product to prevent it from interfering with the normal use of the cleaner. A small amount of suspended material in the cleaner is normal and should be used with confidence.

Federal Communications Commission (FCC) Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These marks are trademarks of their respective owners.

Lefant T1 Robot Mop User Manual and Safety Instructions

Comprehensive guide to the Lefant T1 Robot Mop, covering important safety instructions, product introduction, preparation, usage, troubleshooting, and technical specifications. Learn how to set up and operate your robot mop for optimal cleaning performance.

Responsible for design and/or manufacture
responsible 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 or more of the following measures:
• Reorient or relocate the receiving antenna.
• Increase the separation between the
equipment and receiver.
• Connect the equipment into an outlet on a
circuit different from that to which the receiver
is connected.
• Consult the dealer or an experienced
radio/TV technician for help.

This device complies with Part 15 of the FCC
Rules.

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.

FCC Caution:

Any changes or modifications not expressly
approved by the party responsible for
compliance could void the user's authority to
operate this equipment.

RF exposure warning:

This equipment complies with FCC radiation
exposure limits set forth for an uncontrolled
environment. This equipment must not be installed
and operated in close proximity to other
antennas and instructions and the antenna(s) used for
this transmitter must be installed antenna(s) used
for this transmitter must be installed to
provide a separation distance of at least 20
cm from all persons and must not be
collocated or operating in conjunction with
any other antenna or transmitter.

IC Caution:

This device contains licence-exempt
transmitter(s)/receiver(s) that comply with
Innovation, Science and Economic
Development Canada's licence-exempt
radio equipment. Operation is subject to the following
two conditions:

(1) This device may not cause interference.
(2) This device must accept any interference.
including interference that may cause
undesired operation of the device.

Any changes or modifications not expressly
approved by the party responsible for
compliance could void the user's authority to
operate the equipment.

RF exposure statement:

The equipment complies with IC radiation
exposure limit set forth for uncontrolled
environment. This equipment should be
installed and operated with minimum
distance 20cm between the radiator and your
body.

Cet appareil est conforme aux normes /
réglages exemplaires de la Science et des
Technologies du Canada (TSC) et de l'Innovation,
Sciences et Développement économique Canada. Le
fonctionnement est soumis aux deux
conditions suivantes:

(1) Cet appareil ne doit pas causer
d'interférences.
(2) Cet appareil doit accepter toutes les
interférences, y compris celles qui peuvent causer
un fonctionnement indésirable de
l'appareil.

Tout changement ou modification non
expressément approuvé par la partie
responsable de la conformité pourra annuler
l'autorité de l'utilisateur à utiliser l'équipement.

L'équipement est conforme à la limite
d'exposition aux radiations de l'IC établie
pour l'environnement non contrôlé. Cet
équipement doit être installé et utilisé avec
une distance minimale de 20cm entre le
radiateur et votre corps.