

# LUBY

## Robot Vacuum Cleaner



Input: 100-240V ~ 50/60Hz

Output: 19V --- 0.6A

For Household Use Only

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# Safety Notes

Please read the following safety notes carefully and abide by all routine preventive measures for safety.

- Please read this manual carefully.
- Please keep this manual well.
- This product may be damaged due to any operation inconformity to this manual.

## Expressions



Danger

It means that casualties or serious injuries may be caused in case of disobedience to this instruction or maloperation.



Warning

It means that casualties or serious injuries may be caused in case of disobedience to this instruction or maloperation.



Note

It means that injuries and damage of goods may be caused in case of disobedience to this instruction or maloperation.

## Symbols & Diagrams



This symbol refers to prohibited (forbidden) conducts. Detailed prohibition contents are indicated in or near the diagram.

Prohibition



This symbol refers to conducts that must be (need to be) implemented compulsorily. Specific compulsory conducts are indicated in or near the diagram.

Indication



This symbol aims at calling your attention (warning). Specific attention contents are indicated in or near the diagram.

Note

\*1. Serious injuries include: blindness, burn, electric injury, fracture and poisoning, etc. involving sequela and long-time hospitalization.

\*2. Staff injuries include: injuries, including burn or electric injury, to people who do not need hospitalization.

\*3. Material damages include: damages to household furniture, finance and pets and so on.

## Notes on safety use of the host, charging dock, power adapter and accessories, etc.

### Warning



Dismantling is forbidden

Do not dismantle, repair or refit the product by yourself. Otherwise, the product may be damaged and you may be injured.



Prohibition

Please don't use the product in the place where fire or explosion may be caused. If the product is used in the place with flammable gas, e.g. propane gas and gasoline, an explosion or fire may be caused.



Indication

This product shall be used as a power adapter configured by the manufacturer only. Otherwise, the product may be damaged or fire may be caused.



Prohibition

It is forbidden to stand or sit on this product. Otherwise, the product may be damaged or you may fall down.



Dust removal

If there is dust on the metal part of the power socket or around it, it must be wiped and cleaned with dry mop. Otherwise, electric shock, heating and fire, etc. may be caused.



Prohibition

It is forbidden to use metal and conductive substances to touch the contact of the battery. Otherwise, in case of a short circuit, heating, fire or explosions, etc. may be caused.



AC

The power adapter shall be between AC 100V and 240Vac. Please insert it into the socket correctly and avoid children touch it.



Prohibition

It is forbidden to wash and soak the host and charger with a lot of water. Otherwise, the host and charger may be damaged for an internal short circuit.

# Safety Notes



Prohibition

It is forbidden to damage and process the power cable. Do not put a weight on the power cable or heat, drag or bend the power cable forcefully. Otherwise, the power line may be damaged and fire or electric shock, etc. may be caused.



Prohibition

Do not touch.

When the product is operating and sweeping, please pay attention to the safety of babies, children and old people and avoid someone tripping. Please do not touch wheels and side brushes by hand, so as to avoid being hauled in and injured, and pay more attention to children.



Indoor

Indoor use  
This is an indoor household product. Please do not use it outdoors.



Note



Do not touch

Do not touch it with a wet hand.  
Do not touch it with a wet hand in the charging process. Otherwise, an electric shock may be caused.



Prohibition

Please put this product in the place where it may fall down easily (e.g. on the desk, chair or high stand in the room).



Prohibition

Do not expose to sunshine.  
This product is a kind of precise electronic equipment. Do not expose it in the sunshine for a long time.



Prohibition

Please do not use this product in a wet environment (e.g. bathroom).



Prohibition

Please keep this product away from cigarettes, lighters and other open fire.



Prohibition

Please do not clean this product when it is being charged.



If the product is not in use for a long time.  
Please turn off the power supply switch at the bottom of the machine.



Before using this product, please remove all wear goods (e.g. glass cup and lamp) on the floor and those that may entangle the side brush and air suction channel, (e.g. electric wire, paper scraps and window curtain).



Please carefully check if the power adapter is connected with the power socket well.  
Otherwise, the battery may be damaged.



This product may not be able to stride the vertical step about 8mm high.



When the dustbin is full, please clean up dust rubbish and then use the machine.



Please do not use the machine to clean construction rubbish.



The use temperature scope of this product is from 0°C to 40 °C.  
Please do not use it in the high temperature environment.



**Battery**  
Please dismantle the battery from the machine before it is scrapped. When the battery is dismantled, please ensure that it is switched off. Please recycle the scrapped battery for safety and environmental protection.

# Safety Notes

## ■ Notes on using rechargeable batteries

### Danger



Prohibition

Do not use other battery adapters. Otherwise, leakage, heating or cracking may be caused.



Prohibition

Neither short-circuit nor damage the battery rudely. Otherwise, leakage, heating or cracking may be caused.



Prohibition

Do not deliver or save it together with metal products, e.g. necklace and hairpin. Otherwise, leakage, heating or cracking may be caused for short circuit.



Prohibition

Do not throw the battery into fire or heat it up. Otherwise, leakage, heating or cracking may be caused.

### Note



Indication

In case of abnormal heating in the charging process, please stop using the product at once. Otherwise, leakage, heating or cracking may be caused.



Prohibition

Battery box deformation  
If the battery pack is deformed or expanded or electrolyte flows out, it is forbidden to charge and install the product for use to avoid risks.



Indication

In order to prolong the service life of the battery, please take it out and put it in a cool and dry environment if you do not use it for a long time. Otherwise, leakage, heating or cracking may be caused.



Prohibition

Do not use the rechargeable battery on other equipment.  
The rechargeable battery applies to LUBY smart sweeping robot only.



Indication

Do not immerse or it into water or touch it with water. Otherwise, leakage, heating or cracking may be caused.



Indication

If the battery leakage touches skin or clothes, do not use clean water for washing at once. If you do not pay enough attention, chafing may be caused.



Indication

In case of abnormality (e.g. color change or deform), be sure to stop using it. Otherwise, leakage, heating or cracking may be caused.



Prohibition

Do not hit against the battery strong or throw it away. Otherwise, leakage, heating or cracking may be caused.



Indication

During recycling or scrapping, do not use adhesive tapes, etc. to insulate electrodes.



Prohibition

It is forbidden to dismantle the battery pack. The battery pack may crack, the electrolyte may flow out and serious risks, e.g. fire and explosion, may be caused.



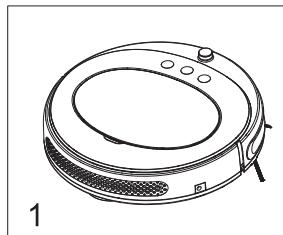
Ni -MH

Heating, cracking or fire may be caused in case of touching other metals. Please bring the waste battery to the maintenance service center or recycler authorized by LUBY Robot or scrap it according to local legislations.

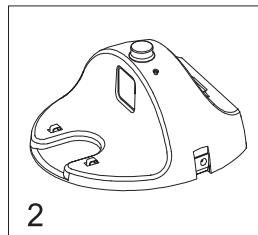
# Components

## Main body and accessories

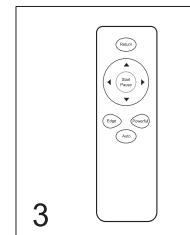
| No. | Items                                     | Qty |
|-----|-------------------------------------------|-----|
| 1   | Main body                                 | 1   |
| 2   | Charging base                             | 1   |
| 3   | Remote controller (excluding the battery) | 1   |
| 4   | Power adapter (19V 0.6A)                  | 1   |
| 5   | Clean tool                                | 1   |
| 6   | User's Manual                             | 1   |
| 7   | Side brush                                | 2   |
| 8   | Water tank component                      | 1   |



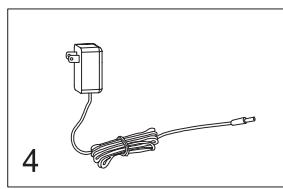
1



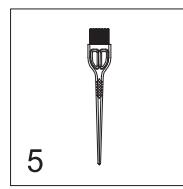
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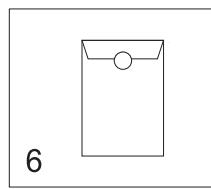
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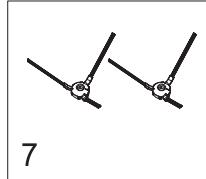
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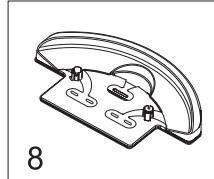
5



6



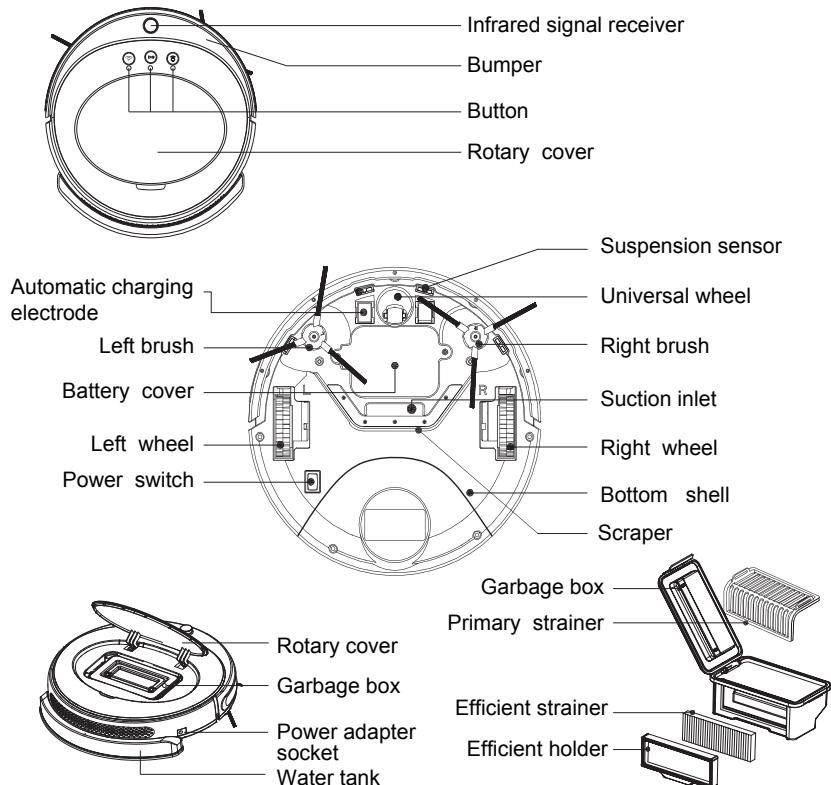
7



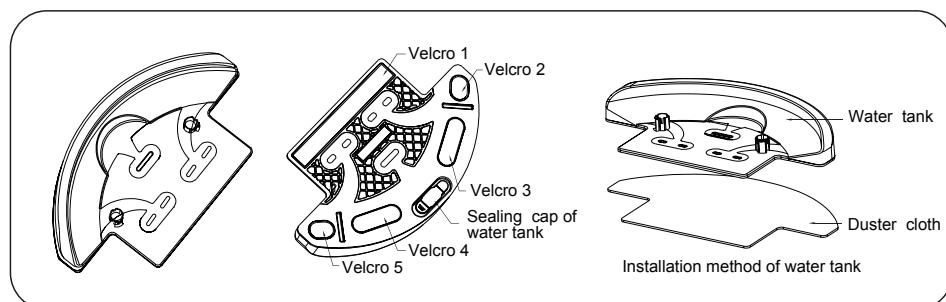
8

# Components

## Main body diagram

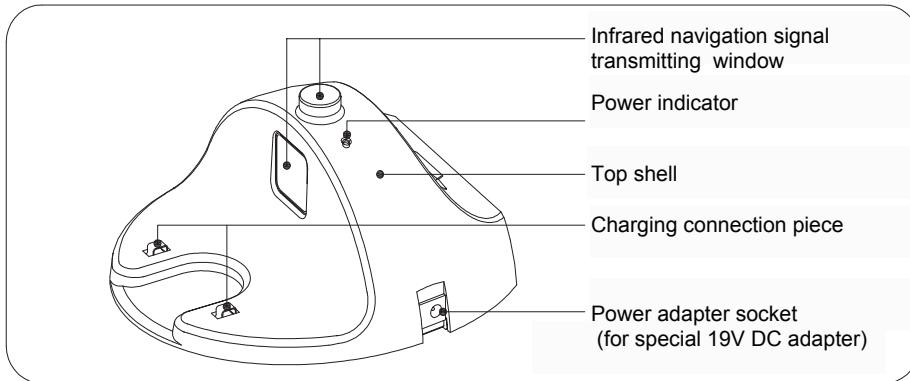


## Water tank component



# Components

## Charging base



## Remote controller

### 1. "Start/Pause" button

- A. At Standby mode, press this button to start the random cleaning.
- B. At Sleep mode, press this button to switch from Sleep mode to Standby mode.
- C. At Work mode, press this button to stop cleaning.

### 2. Direction

#### A. "▲" Forwards

At "Standby mode" or "Work mode", press this button to move forwards.

#### B. "▼" Backwards

At "Standby mode" or "Work mode", press this button to reverse.

#### C. "◀" Leftwards

At Standby mode" or "Work mode", press this button to turn left.

#### D. "▶" Rightwards

At "Standby mode" or "Work mode", press this button to turn right.

# Components

## 3. "Edge" button

At Standby mode or Work mode, press this button to start the border cleaning.

## 4. "Powerful" button

At Standby mode or Work mode, press this button to start the powerful cleaning.

## 5. "Auto" button

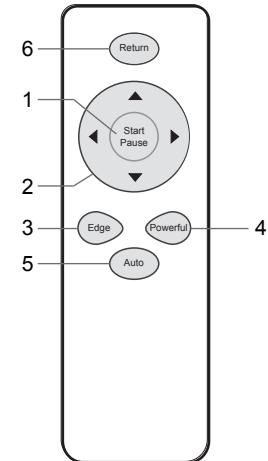
At Standby mode or Work mode, press this button to start the schedule cleaning.

## 6. "Return" button

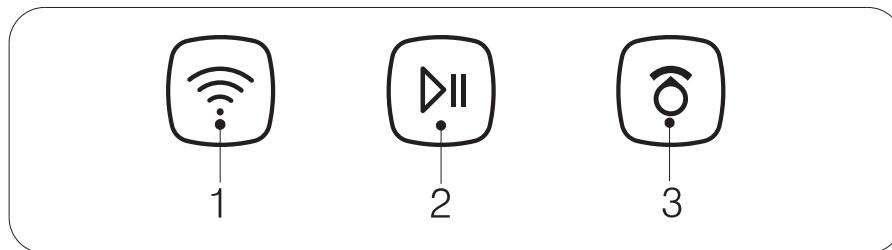
At Standby mode or Work mode, press this button to return to charging base for charging.

**Caution:**

1. Insert two AAA/R03 batteries before use.
2. If it is not in use for long time, take out the batteries from remote controller.



# Main body buttons

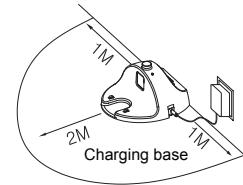


1. "WiFi" button: If this button always onlight, it means the machine networking success.
2. "▶||": Press this button to start or pause the cleaning.
3. "⟳": Press this button to return to charging base for charging.

# Operation

## 1. Quick start guide

Place the charging base against the wall and remove all the obstructions within range of 1 m at both side and 2 m ahead as shown on the right figure, and then connect the adapter and power supply. The power indicator on the charging base will keep on.



## 2. Charging base

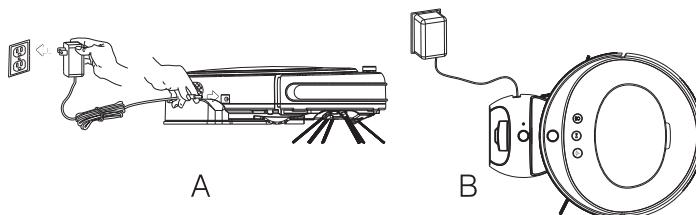
Turn on the power switch at the bottom. 3 button lights going on means the machine enter the Standby mode.

**!Warning** Be sure to turn on the power switch before the charging to avoid the charging failure.

## 3. Charge the machine in one of following two ways.

- Plug the jack of power adapter directly into the socket of machine and connect the other end to the power supply as shown in Fig.A.
- At Selection mode, press the Return button of remote controller or “” button on the machine to automatically return to the charging base as shown in Fig.B

**!Caution:** When charging base is working, press “Start/Pause” button on the remote controller or “” button on the machine to stop charging and start cleaning. When the adapter is used for charging, this operation is invalid.



**!Caution:**

- When the battery is low, “” is flashing quickly.
- When the charging is in progress, “” is flashing slowly.
- After charging is completed, “” stops flashing and keeps on.
- The first charging shall last at least 12 hours.
- Generally place the machine on the charging base and ensure that the charging base is connected to the power supply.
- Check the charging status after battery has run out.
- If the product is not in use for long time, turn off the power switch first.

# Operation

## 4. Automatic charging

- A. When the battery is too low, the machine will start automatically looking for charging base.
- B. Make sure that the charging base is powered on and minimize the obstacles, otherwise the machine may not find the charging base.
- C. In order to find the most appropriate charging position, the machine may move back and forth around charging base for 3-4 times before the normal charge.
- D. Automatic return may fail if the water tank is installed.

## 2. Start/Pause/Sleep

Standby mode: Power switch is on, three buttons keep on and machine is static.

Sleep mode: power switch is on, three buttons are off, and machine is static.

Work mode: Machine is working, (“”) light is on and machine enters cleaning mode.

Operation process: Sleep mode→Standby mode →Work mode

### 1. Power

- A. Make sure that the power switch at the bottom is on.
- B. Press “” button on the main body or Start/Pause button on the remote controller to start the machine.

!Caution: If the machine is in Sleep mode, press “” button to wake the machine, and press it again to start cleaning.

### 2. Pause

Pause is to switch the machine from Work mode to Standby mode, which can be done by following operations:

- A. Press the “Start / Pause” button on the remote controller.
- B. Press “” button on the main body.

### 3. Sleep

In case of no operation in 20-25 s, the machine will automatically enter Sleep mode.

!Caution: If the product is not in use for long time, turn off the power switch first.

## Operation

### 3. Water tank component

1. Open the sealing cap at the bottom of water tank, add the water to the 1/2 or 2/3 volume, close the sealing cap, and then lay the duster cloth at the bottom of water tank (as shown in Fig.1).
2. Fit the water tank component at the bottom of main body according to the arrow direction (as shown in Fig.2), insert two pillars of water tank component into two holes on the base of main body (as shown in Fig.2 ) and fasten the water tank component with base.
  - A. Automatic return may fail if the water tank is installed.
  - B. Machine's climbing ability will be affected by water tank.
  - C. Do not charge the battery with water tank fitted to avoid the danger.

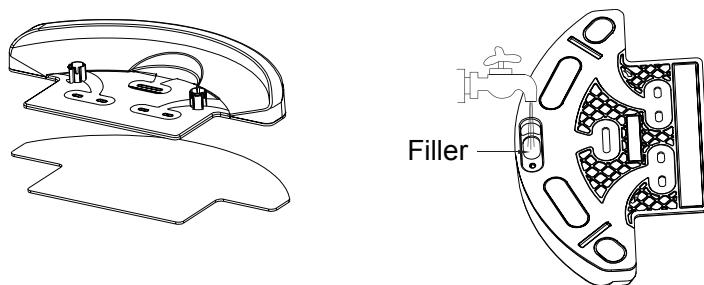


Fig.1

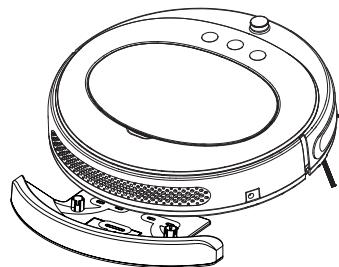


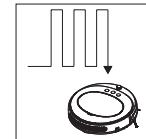
Fig.2

# Operation

## 4. Cleaning mode

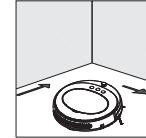
### 1.Z shape cleaning

Press the auto button on the remote control and the robot enters the Z-shape cleaning mode. The mode remains if it is not switched.



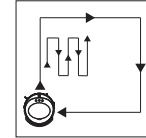
### 2. Edge (Border) cleaning

At Standby mode or Work mode, press Border button on the remote controller to start cleaning along the longest border.

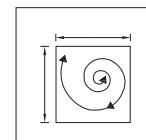


### 3. Auto cleaning

①Press the “” button on the robot to enter the auto cleaning mode: z shape cleaning → edge cleaning ( the robot returns to the charging station, if any, or returns to the starting point in the absence of a charging station).



②Press the Start/Pause button on the remote control to enter the auto cleaning mode.



### 4. Powerful cleaning

- A. In case of extreme dust, the fan speed may increase automatically to conduct the intensive cleaning along spiraling pattern.
- B. With the machine on the dusty area, press “Powerful” button on the remote controller to conduct the intensive cleaning.

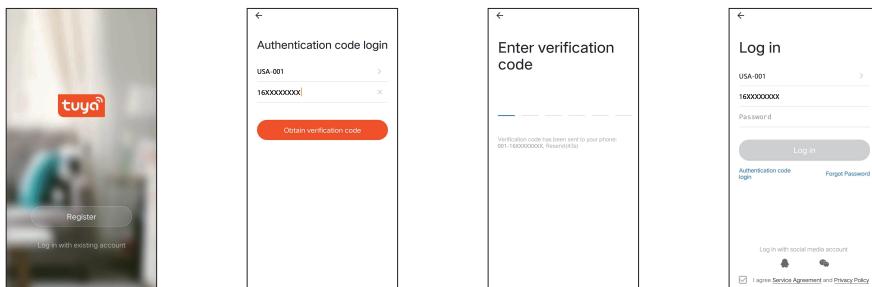
#### !Caution:

- A. The robot stops when powerful cleaning is done, and automatically enters the select mode. Then, it needs manual operation..
- B. Whatever cleaning mode the machine is in, press “Start/Pause” button on the remote controller or “” button on the main body to pause the operation.

# Operation

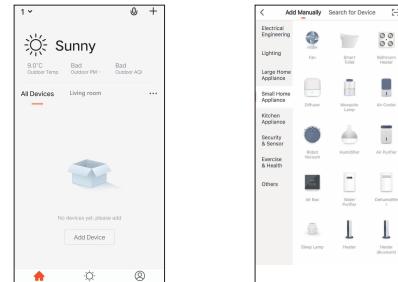
## 5. APP connection instruction

1. Download and install the “Tuya Smart” APP. You can connect your phone to the wireless network in your home, and then search for “Tuya Smart” in Application Store to download and install.
2. Register with mobile phone / E-mail. Enter your mobile phone number / E-mail firstly, after receiving the verification code, enter the password to complete registration.



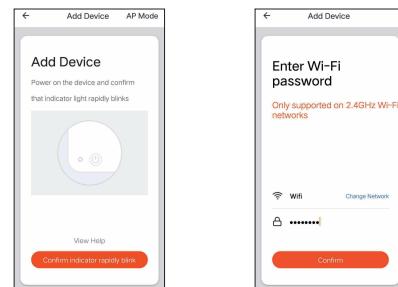
## 3. Add floor mopping robot

Enter “Tuya Smart” APP, click “Add Device” on homepage or click “+” in upper right corner to enter device adding interface. Choose “Small Home Appliance”, then choose “Robot Vacuum”.



## 4. General Connection mode

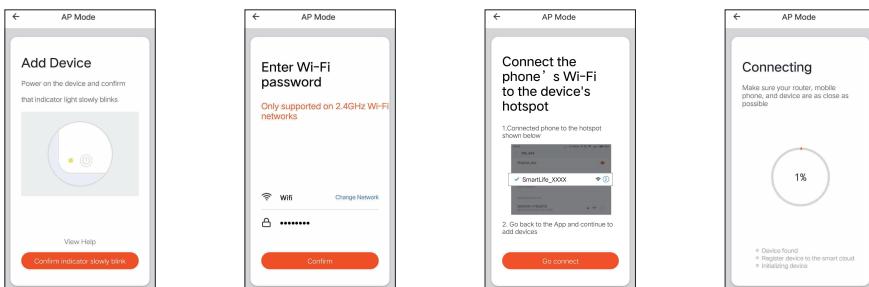
Please long press the “” button on host for 3-5 seconds, release “” button after you have heard “ding-dong” sound for times. At this time, the host indicator is blinking fast. Click “Confirm indicator rapidly blink” button and enter the password of the WiFi connected. Click “Confirm” to enter connection waiting status. If the mobile phone prompts the connection fails, please repeat the above steps.



# Operation

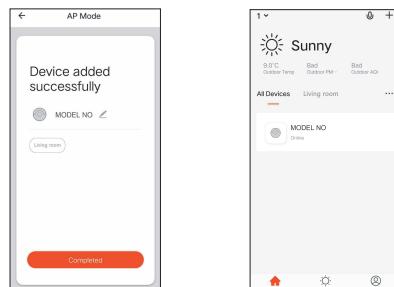
## 5. Compatible connection mode

If the product can't be connected under general connection mode, please try the compatible connection mode. Please long press the “” button on host for 8-10 seconds and release the button after you have heard “ding-dong” sound for three times. At this time, host indicator is blinking slowly. Click “Confirm indicator slowly blink” button and enter the password of the WiFi connected. Click “Confirm” to enter network setting interface, enter mobile phone wifi setting, select “Connect to SmartLift-xxxx”, then return to “Tuya Smart” APP. Enter network connection waiting state. If the mobile phone prompts that the connection fails, please repeat the above steps.



## 6. Device is added successfully.

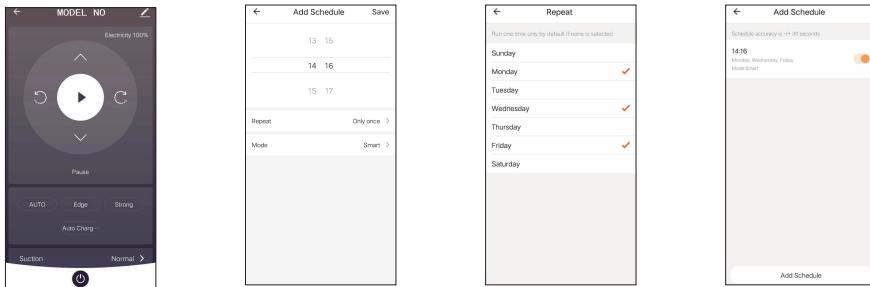
After the device is added successfully, click “Completed” button to enter device list, then click the floor mopping robot added to enter the operation interface.



# Operation

## 7. Make an appointment for cleaning

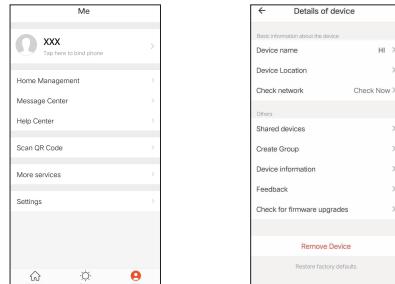
Click the “Schedule cleaning” button in operation interface to enter the appointment timing addition interface. Click “Add Schedule” button to select the startup time and number of repetition days. Once the scheduled time is reached, the host will start cleaning. You can delete the cleaning time scheduled just by deleting it in timing list.



## 8. Other interfaces

A. Personal center: you can set your user nickname on this page, share the device to your friends and make feedback for use opinions.

B. More interface: you can modify the device name on this page, learn about device information, make feedback for users' opinion, and remove the device.



Note: The WIFI only support 2,4Ghz network.

# Maintenance

## 1. Cleaning of left and right brushes

Wash the dirty side brush with water and dry it before use, and if the side brush is damaged, replace it with the new one.

!Caution:

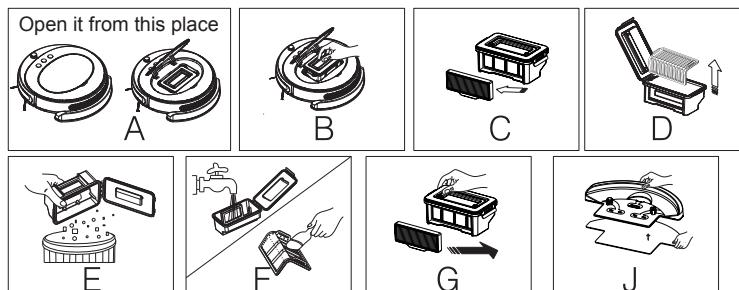
When replacing the side brush, align both "L" and "R" marks on the side brush with those at the bottom of machine.

## 2. Cleaning of garbage box and strainer as below

- A Open the rotary cover at the "  " indication.
- B After taking out the garbage box, check the suction channel of main body for foreign matters and clean it.
- C Remove the efficient strainer.
- D Remove the primary strainer.
- E Lower the garbage box to pour the dust.
- F Thoroughly clean the garbage box, primary strainer and efficient strainer. It is recommended to clean the efficient strainer once 15-30 days. The service life of efficient strainer is up to 24 months. Do not brush it, and just blow it clean with dryer or tap it lightly to cause the dust to fall.
- G Be sure to install both strainers properly before use to avoid damage to the machine.

!Caution:

- A After above cleaning is completed, clean the garbage box and suction channel.
- B Dry the washed parts in the air and do not expose them to the sunlight. Install the parts into the machine after they are fully dried so as not to affect the functions and service life of machine.
- C Clean the left and right sensors in the suction channel with cleaning tool or soft cloth as shown below.



## Maintenance

### 3. Maintenance of duster cloth

Take off the duster cloth, rinse it clean and dry it in the air as shown in Fig. J (by reference to page12).

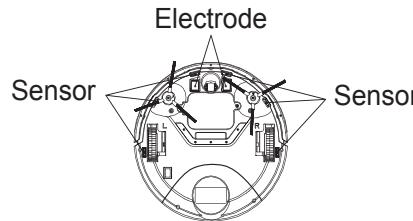
!Caution:

- \* Do not use the dripping cloth to avoid the slippery during the process of cleaning.
- \* Application range: wooden floor, tile, marble, painted hard floor, etc.

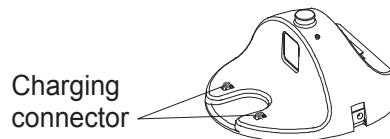
### 4. Cleaning of sensor lens and charging electrode.

Gently scrub the sensor and charging electrode with the cleaning tool or soft cloth as shown below.

A. Gently scrub the sensor and charging electrode with the cleaning tool or soft cloth as shown below.



B. Clean the charging connector on the charging base with the cleaning tool or soft cloth as shown below.



## Common Fault

### Table of warning codes

In case of common faults of machine, determine the causes based on the following phenomenons and solve the problems as shown in the table below.

|                                                                                                            |                                                                                                                      |
|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Overload and failure of left driving wheel                                                                 | Check the left wheel                                                                                                 |
| Overload and failure of right driving wheel                                                                | Check the right wheel                                                                                                |
| Overload and failure of left side brush wheel                                                              | Check the left side brush                                                                                            |
| Overload and failure of right side brush wheel                                                             | Check the right side brush                                                                                           |
| Left and right driving wheels are suspended in the air and stop working with the continuous buzzing sounds | Put the main body back on the ground                                                                                 |
| Collision switch is abnormal and the machine keeps colliding against an obstacle or reversing              | Check the front bumper for sensitivity and foreign matter                                                            |
| Ground checking is abnormal, and the machine stops working with the buzzing sound                          | Put the main body back on the ground                                                                                 |
| Power switch at the bottom is off in the charging                                                          | Turn on the power switch at the bottom                                                                               |
| Garbage box is full of dust or suction channel is clogged                                                  | Clear the garbage box and clean up the suction channel                                                               |
| Fan overload, or no fan sound or significantly reduced sound                                               | Check the fan                                                                                                        |
| Power less than 20%                                                                                        | Put the machine back to charging base or directly charge it (see Items A and B at Point 3 of Start Guide on Page 8 ) |

### !Caution:

If the problem is still not resolved, try the following operations:

1. Turn off the power switch at the bottom of main body and restart the machine.
2. If the problem still exists, send the machine to the after-sale service center.

## Battery Replacement

### Battery Replacement

1. Remove the screws of cover at the bottom of machine with screwdriver.
2. After taking out the battery cover, pull the insulated strip to take out the battery.
3. Gently break the connection plug latch to separate the battery with main body.
4. Connect the new battery plug to the main body socket.
5. Place the new battery into the compartment with the inscribed side upwards.
6. Put straight and squeeze in the wires next to battery and then lock the battery cover.
7. Power on and check the machine.

#### !Caution:

- A. Do not use non-original battery, otherwise the machine may be burned out.
- B. The first charging shall last at least 12 hours.
- C. Recycle the replaced battery in an environment-friendly way.

## Product Specifications

| Model                         |                            |                                                              |                                                      |
|-------------------------------|----------------------------|--------------------------------------------------------------|------------------------------------------------------|
| Input voltage                 | DC14.4V                    | Size                                                         | W320xD320xH85 mm                                     |
| Total rated power consumption | 25W                        | Net weight                                                   | 2.8kg                                                |
| Made in                       | China                      | Charging type                                                | Auto or manual                                       |
| Charging time                 | 240-360 min                | Cleaning time                                                | About 90 min                                         |
| Battery capacity              | Li-ion battery<br>2,600mAh | AC Adapter type<br>(for charging<br>Rechargeable<br>battery) | Input: 100-240V<br>~50/60Hz,<br>Output: DC19V---0.6A |

■ Storage temperature of the product is from 0°C to 40°C.

# LUBY

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