



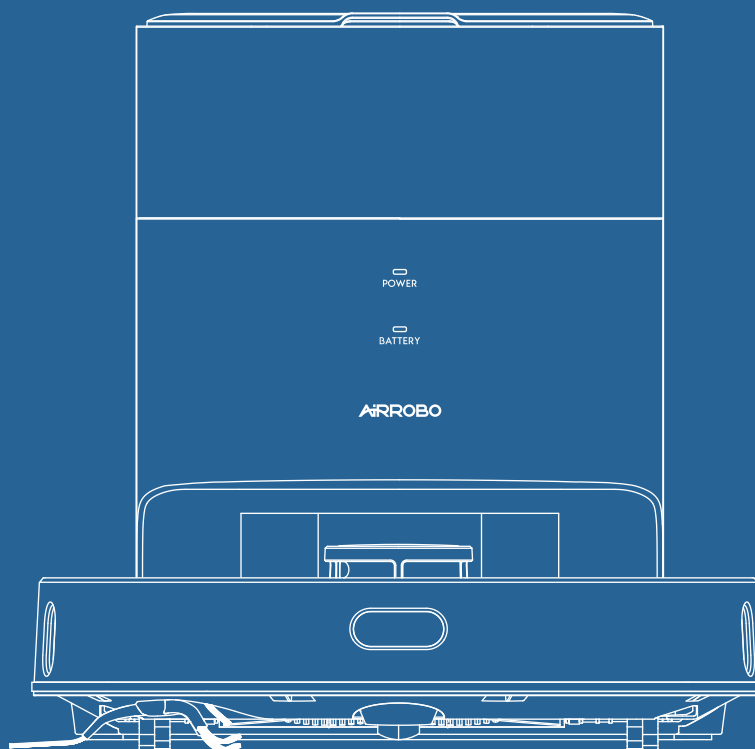
Scan this QR code for  
step-by-step videos



# Robot Vacuum Cleaner **T20+**

LDS Laser Navigation & Automatic Dirt Disposal

## User Manual



AIRROBO is a smart home appliance brand with a focus on AI-enabled technologies. Supported by a world-leading enterprise in humanoid robotics field, AIRROBO is aiming to bring the most cutting-edge technology to more and more households around the globe, making smart home a new norm of life. Please read this manual carefully before using the product and store it properly.

Customer Service: [support.airrobo@ubtrobot.com](mailto:support.airrobo@ubtrobot.com)











## 2.2 Product Appearance

### • Buttons



#### Power Button

Press it to start **Auto Cleaning/Pause Cleaning**.  
Press it and hold for 3 seconds to turn robot on or off.

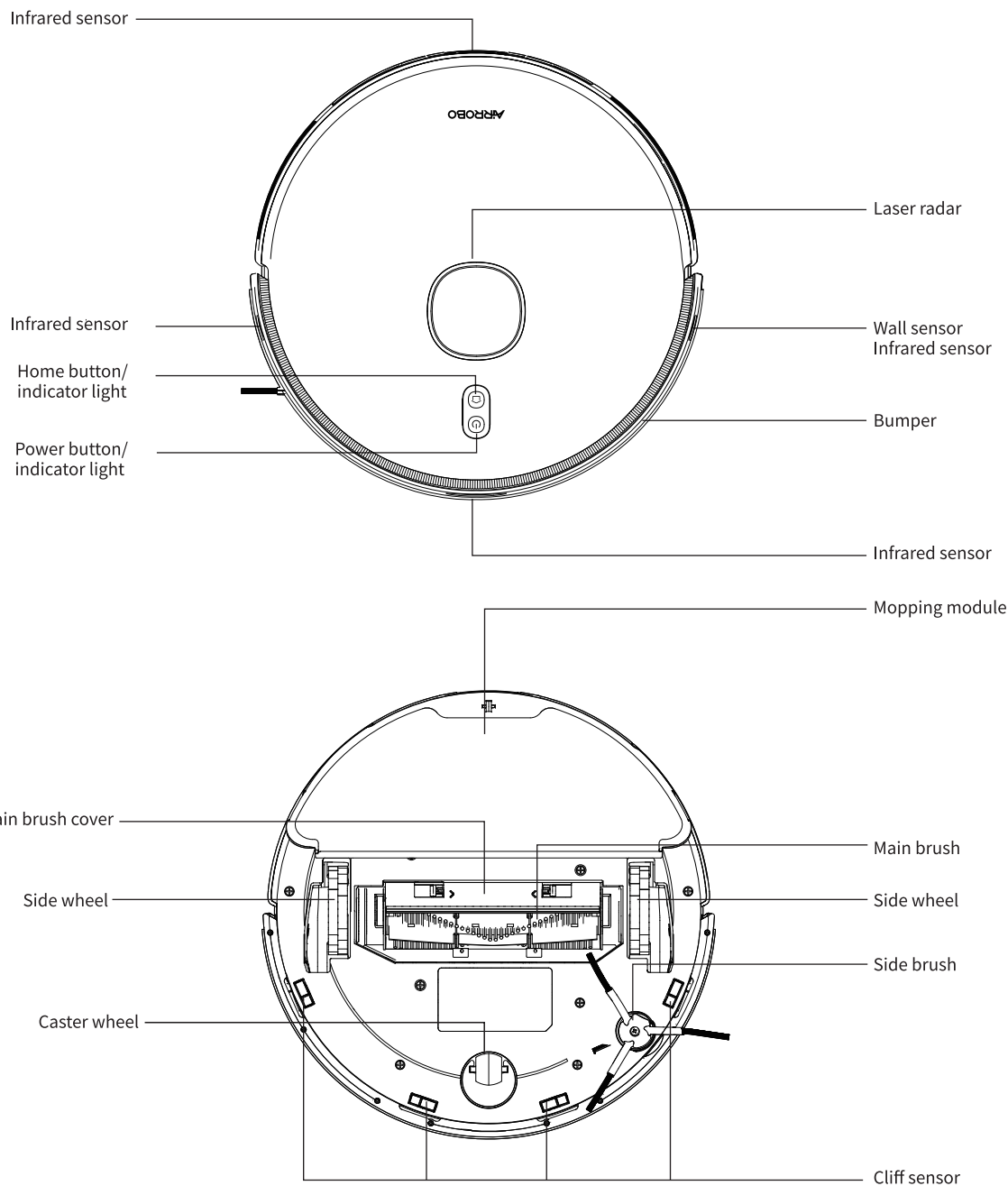


#### Home Button

Press it and hold for 3 seconds to start **Local Cleaning**, in which mode the robot will clean a four-square-meter area centered on itself.

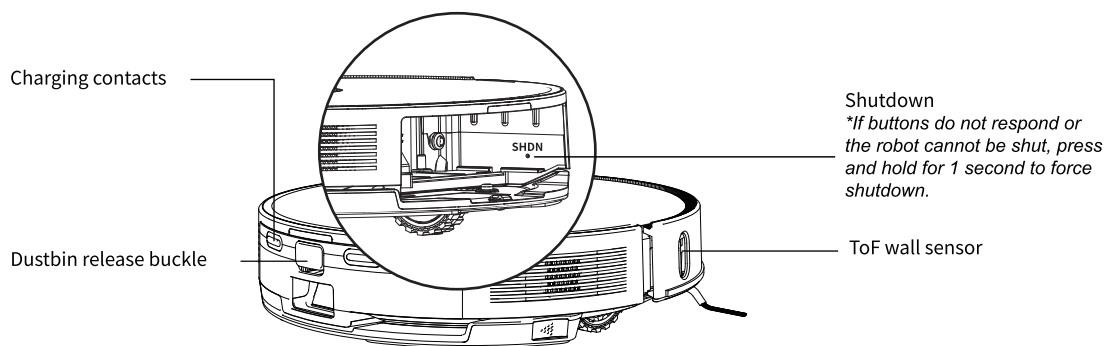
**Reminder:** When the robot is moving, you can press **any button** to pause it.

### • Robot Vacuum Cleaner

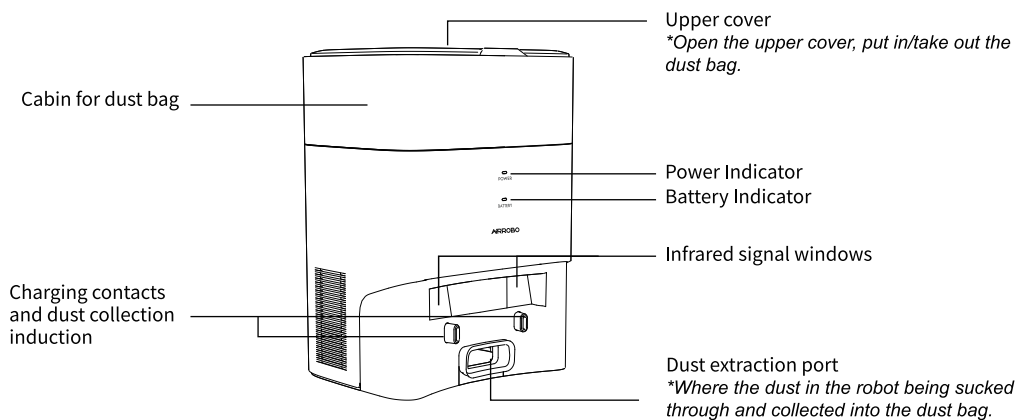






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### • Automatic dirt disposal and charging base





### • Description of the base indicator lights

No.	Power Indicator 		Battery Indicator 	
1	OFF	Base not engaged	OFF	Robot is not on the base charging
2	White ON	Base engaged	White ON	Battery fully charged
3	White Breathing	/	White Breathing	Charging (Battery level $\geq 80\%$ )
4	Orange flashing	Abnormal (the specific fault types, please refer to the voice played by robot)	Orange flashing	/
5	Orange Breathing	/	Orange Breathing	Charging (Battery level $< 80\%$ )
6	OFF	Idle for more than 60 seconds	OFF	Idle for more than 60 seconds

#### Reminder:

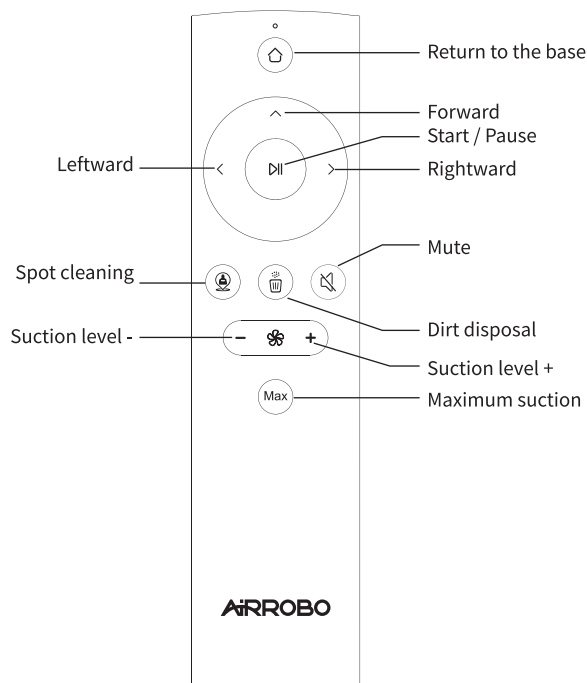
The dust bag is a consumable item and needs to be purchased from the official distribution channels.

### • Description of the robot indicator lights








No.	Robot Status	Power indicator  and Home indicator 
1	Charging	White Breathes (Battery level $\geq 30\%$ ) Orange Breathes (Battery level $< 30\%$ ) White ON (Battery fully charged)
2	Cleaning / Standby / Wi-Fi connected	White ON
3	Returning to base	White Breathes
4	Abnormal	Orange Flashes
5	Wi-Fi not connected	Orange Breathes
6	Network configuring/Updating	Blue Flashes



- Remote Control



## Remote Control Buttons

- Press  to pause cleaning; press it again to resume.
- Press  to adjust the direction of the robot.
- During the cleaning, press  to return to the charging base.
- Press  to start the spot cleaning mode, in which the robot will clean a four-square-meter area centered on itself.
- When you press , the base sucks the dirt out of the robot and stores it in the disposable dust bag. (only available when the robot is charging at base)
- Press  to adjust the level of suction power.
- Press  to adjust to the maximum level of the suction power of the robot.

**Note:**

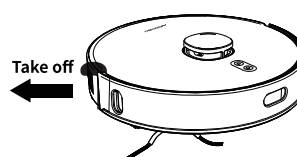
- Before using, install two AAA batteries in the remote control, making sure that the positive and negative ends follow the markings indicated in the battery compartment.
- When the robot is not connected to a Wi-Fi network, you can still operate it with the remote control.
- When the robot is on the charging base, it will back off a short distance if any direction button on the remote control is pressed. After that, you can operate it normally.
- Remove the batteries from the remote control if you will not use it for a long time.
- Non-rechargeable batteries are not to be recharged.
- Different types of batteries or new and used batteries are not to be mixed.
- Batteries are to be inserted with the correct polarity.
- Exhausted batteries are to be removed from the appliance and safely disposed.
- The supply terminals are not to be short-circuited.

## Part 3 Installation and Operation

### 3.1 Installation

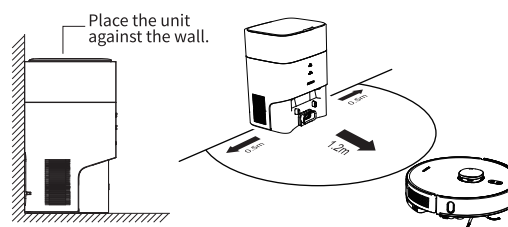
### 1. Remove the bumper stopper

- Place the robot on a flat floor and remove the bumper stopper plugged at both ends of the front bumper.





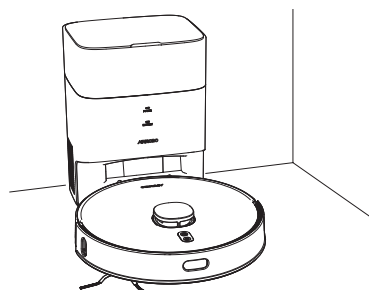
## 2. Install the base

- Place the base against the wall on a flat floor, insert the power plug into a socket that meets the national standards requirements and then turn on the power.
- Ensure that there are no obstacles within 1.2 meters (4 feet) in front and 0.5 meters (1.6 feet) from either side.



### 3. Charge the robot

- Press and hold the  for 3 seconds to turn on the robot, and then press the  to make the robot automatically align to charge.
- Make sure that the charging contact points are dry before charging. Please get the robot fully charged before operating.
- Please pick up the **cables**, **lightweight** and **fragile objects** on the floor before cleaning to avoid damage caused by entangling, dragging, and colliding during cleaning.
- It is recommended to start cleaning from the base so as to remember the location of the base when building the map, and it is efficient to find the base when returning to the base.
- When the battery runs low during cleaning, the robot will automatically return to the base to charge and continue cleaning from its breakpoint once the battery is restored to 80% battery level.
- Or you can manually push the robot aligning to charge.



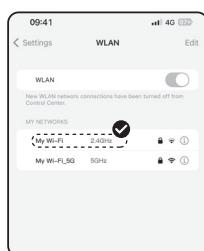


## 3.2 Operation

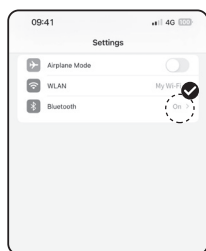
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### 1. Preparation

**Step1:** First ensure that the RF band of your Wi-Fi network is 2.4GHz. In particular, 5GHz is not supported.




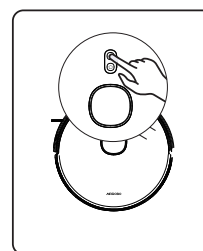
**Step2:** Ensure your phone have connected to your 2.4GHz Wi-Fi and the Bluetooth of your phone should be ON.



**Step3:** Scan the QR code or search AIRROBO in Apple Store or Google Play to download the APP. Register and log in the AIRROBO APP.

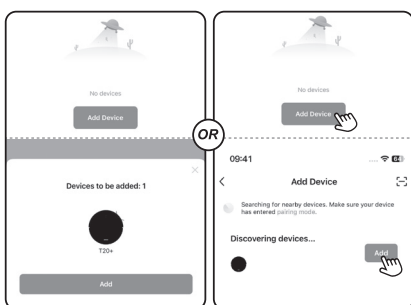


**Step4:** Press and hold the  for 3 seconds to start the robot. Or you can charge the robot on the base to start it automatically. Ensure your phone and the robot are right within the signal range—not more than 3 meters the better.

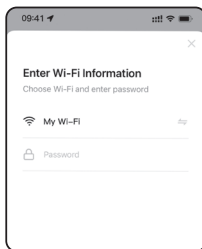


### 2. Network configuration/Pairing

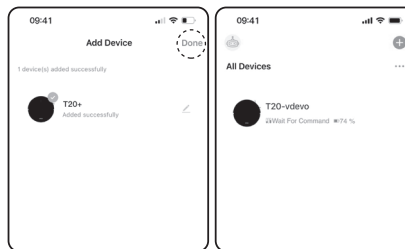
**Step1:** Click [Add device] or [+] to add the robot, which will pop out in the Add Device Page or the front page automatically.





**Step2:** Enter your Wi-Fi password. Besides, if your phone has connected to your Wi-Fi already, the Wi-Fi name will automatically be input.



**Step3:** Added successfully! Click [Done] to enter the next step. Now you can operate the robot through the APP.






#### Tips:

1. Due to the update of the APP, these pages maybe slightly different. Please follow the current in-app guides while using.
2. If your robot is unable to be found or has timed out for several times, please do as follows before trying again. Ensure that the phone does not disable Nearby Devices and that the router is not in whitelist mode. Reset Wi-Fi to the robot: Press and hold  +  for 3 seconds when the robot is ON. Then clear the APP cache: Me - Settings - Clear Cache.
3. The APP is currently not compatible with Android tablets and iPads.
4. To use the APP properly, please turn on the Basic Google Services if you are using an Android phone.

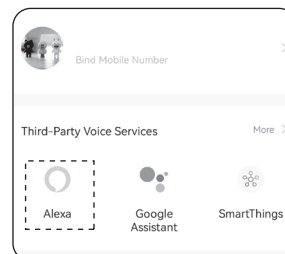
#### Reminder:

- Due to the regular upgrade and update of the APP, the actual operation might be slightly different from the above description. Please follow the instructions in the current APP.
- If you want to connect to Alexa, click "Alexa" and follow the prompts.

### 3. Power on/power off/pause

- The white light will breathe for several seconds while turning on. Then the white light will be on, which means the robot is on standby.
- Press the  to start auto cleaning.
- Press and hold the  for 3 seconds to spot cleaning.
- When is paused, press and hold the  for 3 seconds to turn it off. The white light will quickly flash for several seconds before turning off.
- The robot will enter sleep mode if it pauses for 5 minutes. Press any button or use the remote control to wake it up.

**Reminder:** The robot cannot be shut down, or put on standby during charging.





#### 4. Automatic charge/manual charge

- When the battery runs low or cleaning is completed, the robot will automatically return to the charging base.
- Press  when the robot is paused, it will return to the base to charge.

**5. Add water or clean the mop during cleaning**

- If you want to add water to the tank or clean the mop during cleaning, you should press any button to pause the robot first. Afterwards, you can press the (⏏) again to resume cleaning. Not available on waterlogged ground.

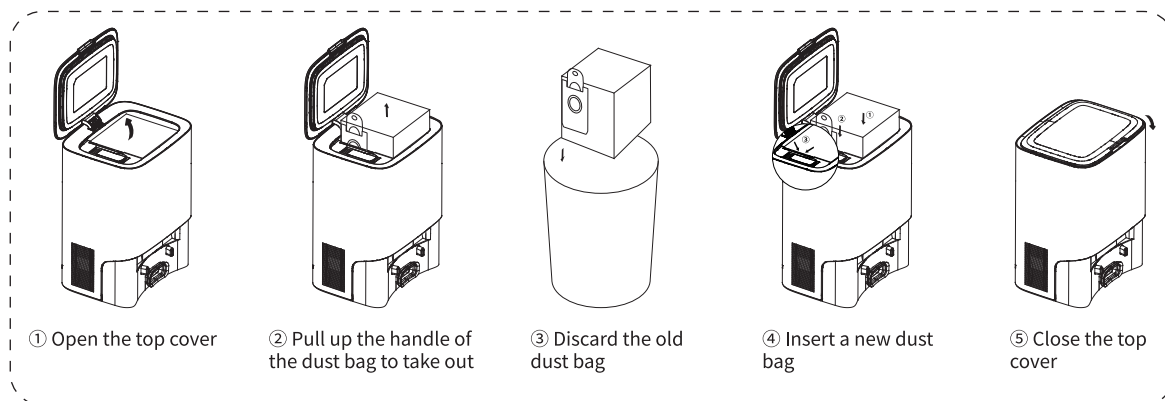
## 6. Fault state

- When the robot fails, a voice prompt will be issued and the light will flash orange. Please refer to **Troubleshooting** for solutions.


## Part 4 Daily Maintenance

### 1. Replace disposable dust bag

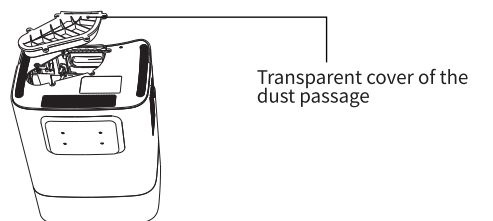
When the dust passage is stuck or dust bag is full, the Power Indicator (  POWER ) on the base will flash orange, and a voice prompt will be issued by the robot.



## 2. Clean the dust passage

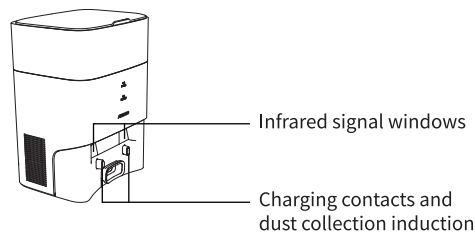
If the Power Indicator (  ) on the base is still flashing after replacing the dust bag, it is recommended to disconnect power, turn the base upside down, and check whether the dust passage is blocked by any foreign objects. If the dust passage is blocked, refer to the figure below and use a screwdriver to remove the transparent cover of the dust passage and remove foreign objects.

**Note:** Violent dismantling is prohibited. After that, please reassemble it.



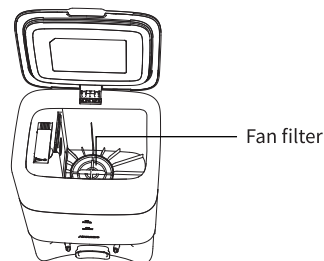
### 3. Clean infrared signal windows/Charging contacts and dust collection induction

Wipe gently with a clean soft, dry cloth. It is recommended to clean once a month.



#### 4. Clean the fan filter

The fan filter is under the dust bag. If there is dust accumulation, you can wipe with a soft and dry cloth.









## 8. Battery care

- The robot has a built-in, high-performance, rechargeable lithium-ion battery pack. To maintain battery performance, please keep charging on the base.
- If left unused for a long period, please turn it off for storage and charge it at least once a month to avoid damage to the battery due to over-discharge.
- Never charge the robot at sub-zero temperatures. Due to the characteristics of lithium batteries, charging below zero will cause irreversible damage to the battery.

### 9. Clean the 2-in-1 dustbin

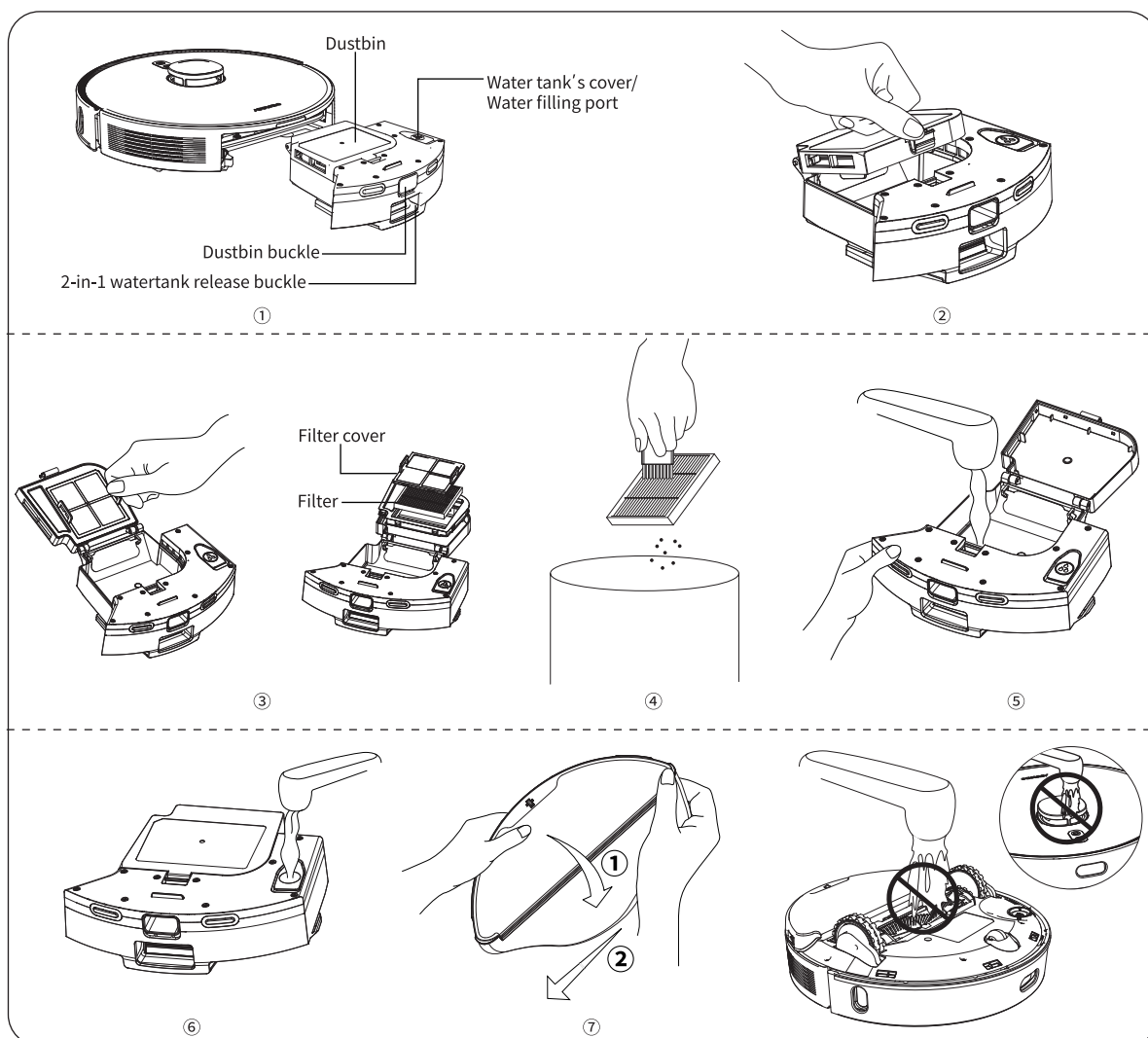
- ① Press and hold the release buckle while pulling it out.
- ② Press the buckle of the dustbin to open it.
- ③ Take out the filter.
- ④ Use the cleaning brush to clean the filter and remove debris.

\* The HEPA filter is a consumable item. It is recommended to replace it every 3-6 weeks. Please purchase replacements from the authorized sellers.

- ⑤ Clean the dustbin.
- ⑥ Open the water tank cover and fill it with the right amount of water. Never add any type of cleaner or disinfectant to the tank to avoid corroding the electronics in it.
- ⑦ Reverse the 2-in-1 dustbin and remove the mop for replacement.

**Reminder:**

- The state of the mop affects the mopping effect; please keep the mop clean.
- Always remove the mop to clean and dry it before installing. It is recommended to clean the mop separately from the water tank, otherwise the dirty water will stain the filter.
- The mop is a consumable item; it is recommended to replace it once every 3-6 weeks.







## Part 5 Troubleshooting



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The power light flashes orange when the robot is not working properly. It will also play a voice prompt when a fault occurs. Please refer to the instruction sheet below. Besides, if the base encounters problems, please refer to the voice prompts of the robot at the time it has already launched the base. For more information, please check the FAQ in the app.

## Part 6 Basic parameters

Robot vacuum cleaner

Model	T20+
Product Size	350×350*100mm
Input	19 V $\overline{\text{---}}$ 1.2 A
Rated power	36 W
Working voltage	14.4 V $\overline{\text{---}}$
Battery capacity	3200 mAh (Rechargeable Li-ion Battery)
Wireless connections	Wi-Fi IEEE 802.11b/g/n 2.4 GHz

Automatic dirt disposal and charging base

Model	T20-01
Product Size	258×210×355mm+
Input	EU/UK: 220 V-230 V ~ 50/60 Hz US/JP: 100 V-120 V ~ 50/60 Hz
Output	19 V $\overline{\text{---}}$ 1.2 A
Rated power	900 W





## Part 8 Declaration of Conformity

Intended Use/Category	802.11 b Wi-Fi	802.11 g/n Wi-Fi	BLE
RF output power	20 dBm	20 dBm	10 dBm
Frequency range(MHz)	2412~2472 MHz	2412~2472 MHz	2402-2480 MHz
Modulation	CCK, QPSK, BPSK	OFDM	8 DPSK, $\pi/4$ DQPSK, GFSK

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### 8.1 FCC Compliance Statement

#### FCC ID:2AZRE-T20

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

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.

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 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 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.

### 8.2 FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

### 8.3 ISED TO CANADIAN USERS

#### IC:28477-T20

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s).

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.

This Class B digital apparatus complies with Canadian ICES - 003.

This device complies with RSS - 247 of ISED. Operation is subject to the condition that this device does not cause harmful interference.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) L'appareil ne doit pas produire de brouillage;
- (2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Cet appareil numérique de la Classe B conforme à la norme NMB - 003 du Canada.

Cet appareil est conforme à la norme RSS - 247 d'ISED. Le fonctionnement est soumis à la condition que cet appareil ne provoque pas d'interférences nuisibles.



## 8.4 IC Radiation Exposure Statement

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Cet équipement est conforme aux limites d'exposition aux rayonnements de la IC établies pour un environnement non contrôlé. Cet équipement doit être installé et fonctionner à au moins 20 cm de distance d'un radiateur ou de votre corps. Cet émetteur ne doit pas être co-localisé ou fonctionner en conjonction avec une autre antenne ou un autre émetteur.

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## 8.5 WEEE Disposal and Recycling Information



All products bearing this symbol are waste electrical and electronic equipment (WEEE as in directive 2012/19/EU) which should not be mixed with unsorted household waste. Instead, you should protect human health and the environment by handing over your waste equipment to a designated collection point for the recycling of waste electrical and electronic equipment, appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health. Please contact the installer or local authorities for more information about the location as well as terms and conditions of such collection points.

## 8.6 EU RF Exposure statement

This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body. This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

## 8.7 EU Declaration of Conformity

Product description: Robot Vacuum Cleaner (with Automatic Dirt Disposal and Charging Base T20-01)

Type designation(s): T20+

Trademark: AIRROBO

Hereby we,

Name of manufacturer: Best Epoch Technology Co., Ltd

Address: 2201, Block C1, Nanshan I Park, No. 1001 Xueyuan Road, Nanshan District, Shenzhen City, China P.R declare under our sole responsibility that the product described above is in conformity with the relevant Union harmonization legislations: Radio Equipment Directive 2014/53/EU

The following harmonized standards and/or other relevant standards have been applied, which included for Article 3.1a Health, Article 3.1b EMC, Article 3.2 Radio Spectrum requirements and Article 3.1a Electrical Safety requirements:

EN IEC 55014-1:2021

EN IEC 55014-2:2021

EN IEC 61000-3-2:2019+A1:2021

EN 61000-3-3:2013+A1:2019+A2:2021

ETSI EN 301 489-1 V2.2.3 (2019-11)

ETSI EN 301 489-17 V3.2.4 (2020-09)

EN 300 328 V2.2.2 (2019-07)

EN 62233:2008

EN 60335-2-2:2010+A11:2012+A1:2013

EN 60335-2-29:2004+A2:2010+A11:2018

EN 60335-1:2012+AC:2014+A11:2014+A13:2017+A1:2019+A14:2019+A2:2019

EN IEC 62311:2020

The performed the conformity assessment according to the European Directive, The laboratory issuing the report is Bay Area Compliance Laboratories Corp.(Dongguan).

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Signed for and on behalf of: Best Epoch Technology Co., LTD.

Place: Shenzhen, China.

Name: Lucia Liu

Signature: Lucia Liu

Position: Certification Engineer

Date: July 27, 2023



# AIRROBO

**Tips:**

Scan the QR code to redeem your rewards points, get the latest news and download E-manual.  
**English/Deutsch/日本語/Русский/Français/Español/Italiano** included.

**USA** support.airrobo@ubtrobot.com

**Japan** support-jp@ubtrobot.com

**Europe** support-eu@ubtrobot.com

**Russia** support-ru@ubtrobot.com

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Tuyasmart APP is a trademark of Tuya Inc.

The pictures of the product are for reference only and subject to change without notice.

**MADE IN CHINA**



A20361PKK