

# C2 cleaning robot training

HI

| Make Robots Serve the World Better |  
Intelligence.Aly Technology



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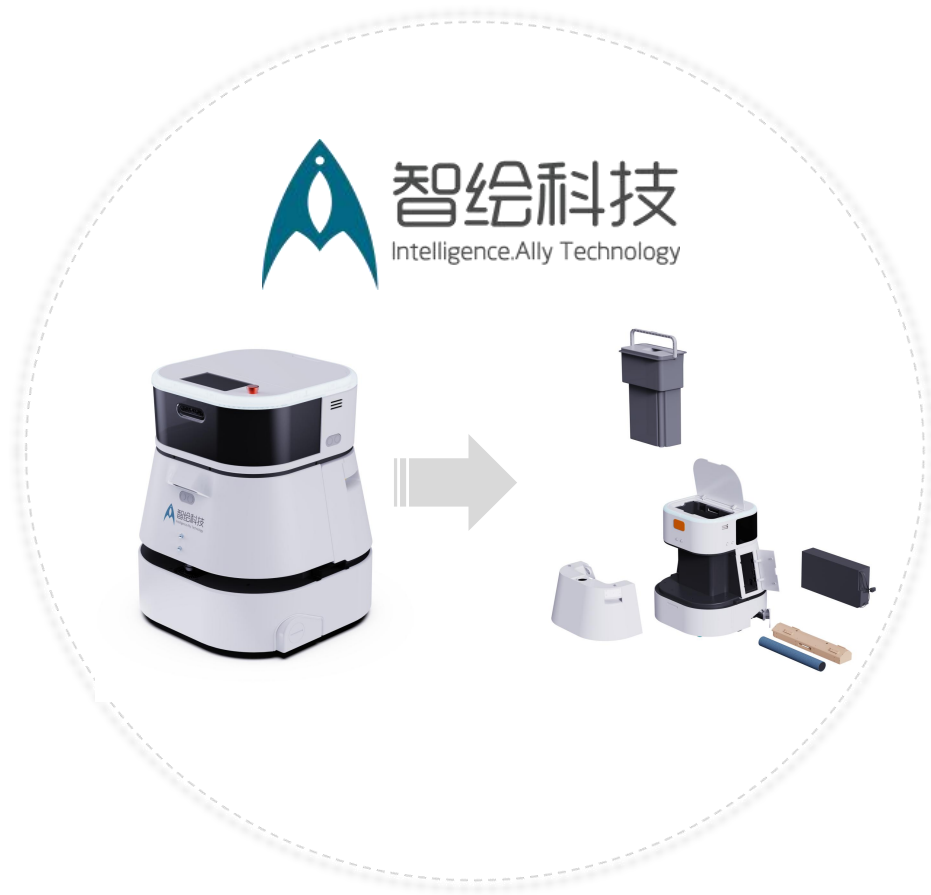
**Product Maintenance**

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# Product Introduction

The cleaning robot integrates scrubbing, vacuuming and mopping functions. It enables self-recharging and self-cleaning, and has been widely employed in hospitals, shopping malls, schools, exhibition halls, office buildings, terminal buildings and other scenarios.



## Intelligent Navigation



Intelligent navigation with obstacle avoidance, smart planning for cleaning routes, real-time detection of pedestrians and surrounding obstacles, and flexible execution of cleaning tasks.

## Simplified Operation



User-friendly design allows a new cleaning task to begin within three clicks (scheduled tasks require no extra operation).

## Modular Quick-Detach Design



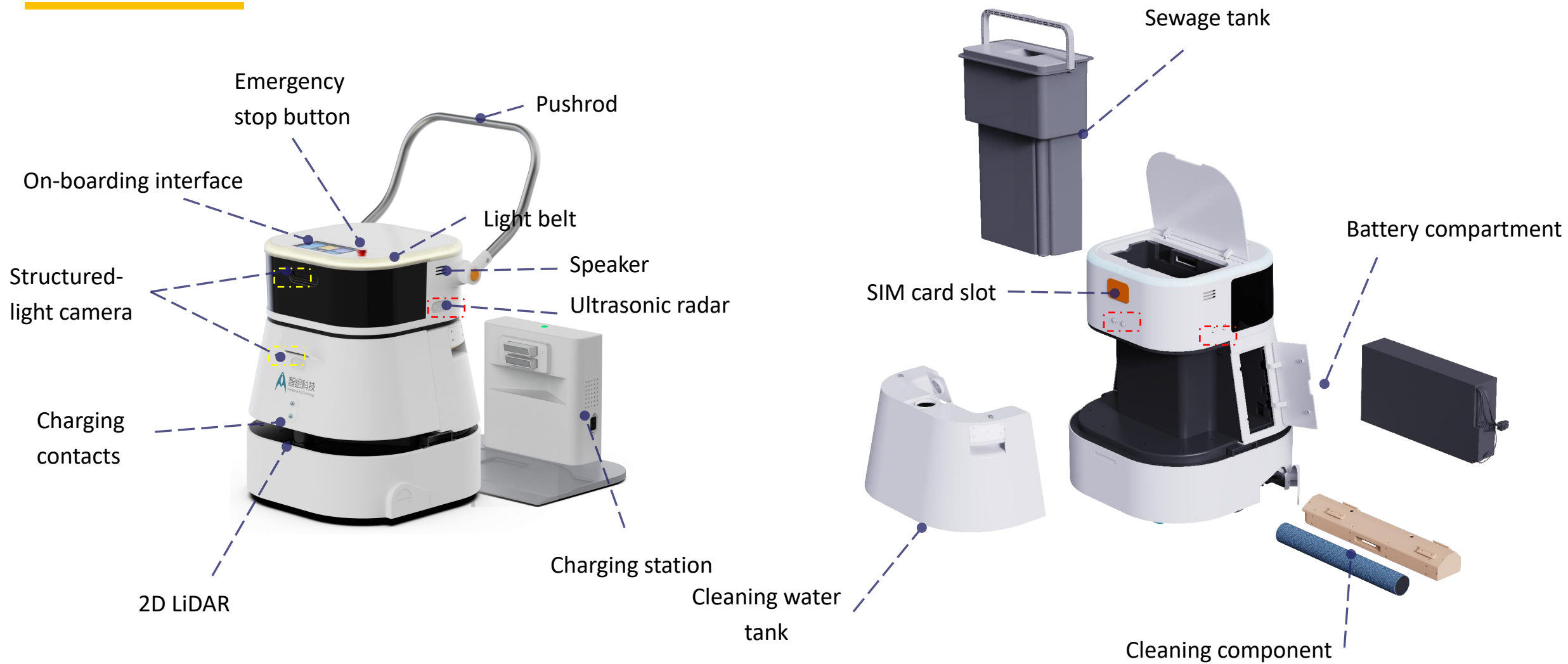
Modular design makes regular maintenance, component repair, and consumable replacement easier.

## Multi-Mode Interaction



Multiple interaction methods including onboard interface, mobile App and remote control enable quick and flexible use. For example, deploying cleaning task on onboard interface by one click, real-time notification of robot status on mobile App.

# Component Description



# Functions



## Scubbing

- Suitable for : dry or wet floor with garbage
- Working hours: up to **5** hours when fully-charged

## Mopping

- Suitable for: floor with dry garbage or less water; daily maintenance
- Working hours: up to **12** hour when fully-charged

## Vacuuming

- Suitable for: dry floor, carpet, garbage smaller than the suction port
- Working hours: up to **4** hours when fully-charged

# Floor types

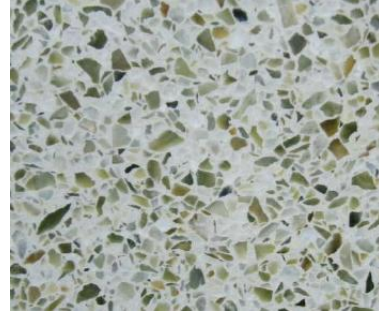
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Marble



Tile



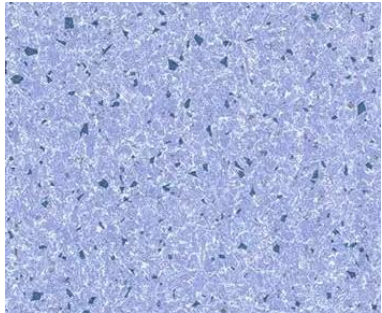
Terrazzo



Cement



Ruber



PVC



Epoxy



Carpet



Wood

.....

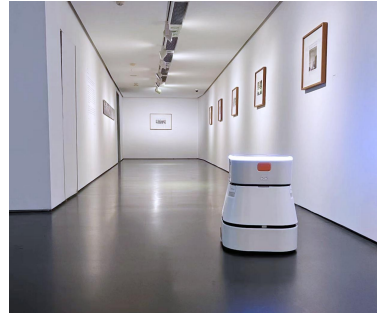
# Scenarios



Office



Hotel



Exhibition hall



Terminal Building



Real estate



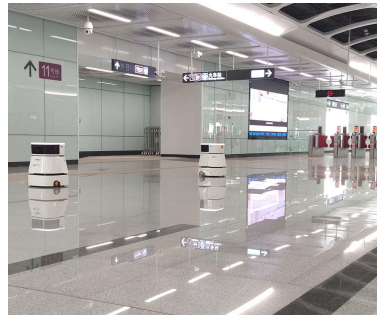
Hospital



Factory



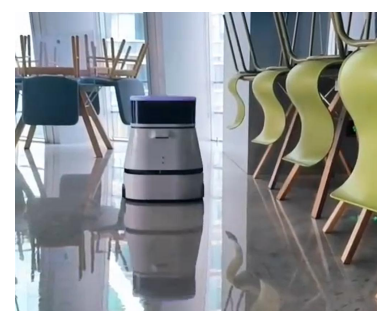
Supermarket



Subway station



Hospital



Restaurant



Shopping center



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# 9 Steps to Manage

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Account Registration

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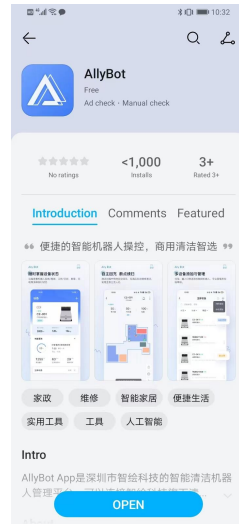
Task  
Management

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Planning  
Management

# App Installation

You can download and install the **AllyBot** mobile app from the Android App Market or by scan the QR code. The launch icon is shown below.



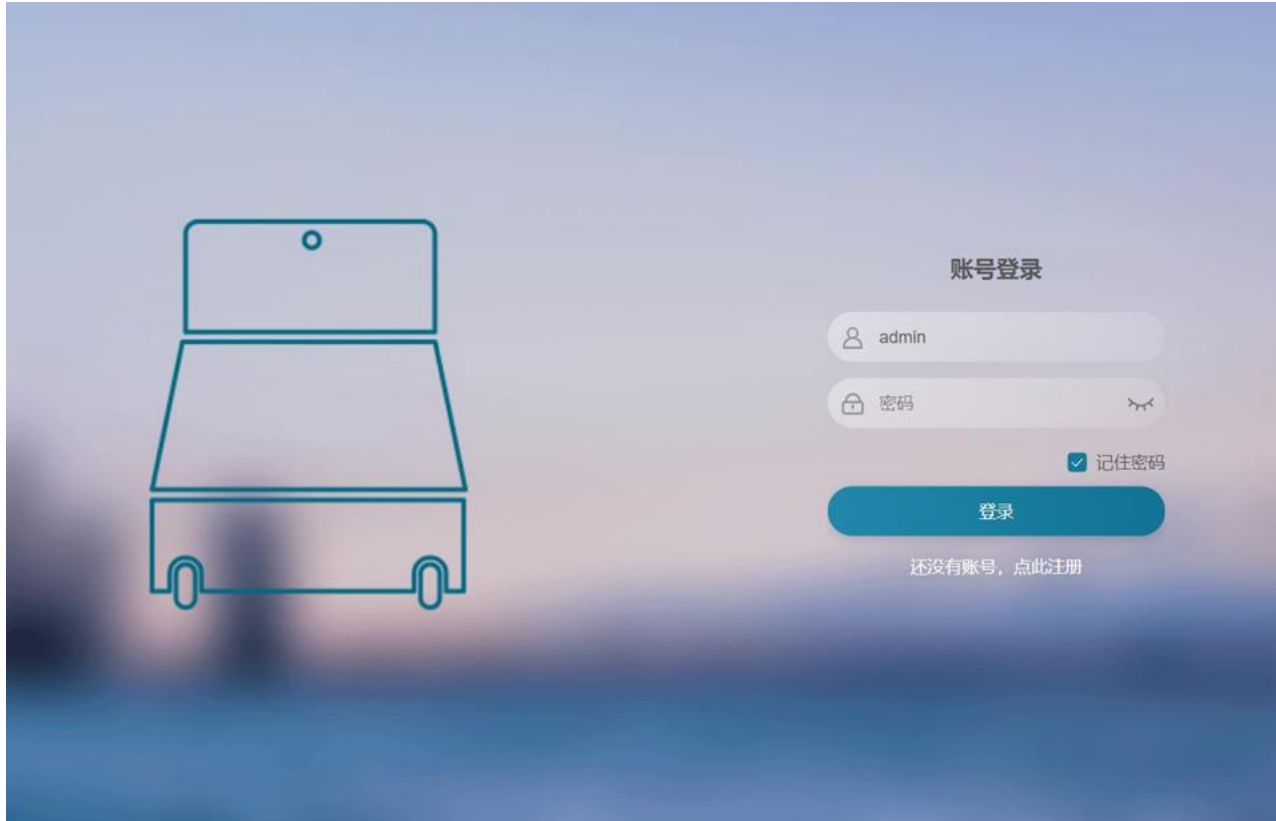
Search for '**allybot**' in the App Market

Download App

- Currently the IOS App has only Chinese language package, and the multi-language package will be launched soon.
- The software is continually updated with rapid iterations. You can contact our technical support team to obtain the latest AllyBot software package for installation and use.
- Please ensure that your robot and smart phone are connecting with the same WiFi.

# Web-based operation

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- Power on the robot
- Search the WiFi list for the **robot WLan** with the name of its SN code (eg: SN0001→0001)
- Connect the WLan with password (initial password: Zhkj2015)
- Open a browser and enter the IP address: 192.168.8.188:32769 to access the webpage

# Registration & Log in

**Click Register**

Click the "Register" button at the top right of the login page to register a new account

**Enter Information**

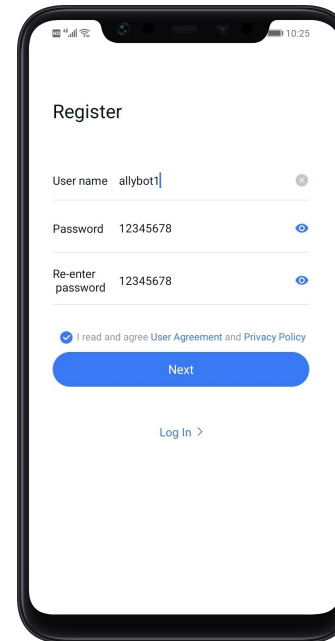
Enter a valid username, password, and confirm the password

**Link Mobile**

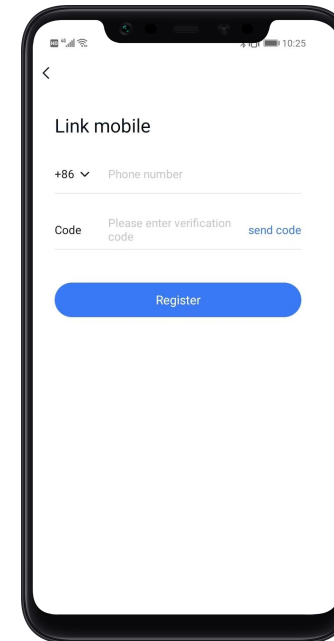
Link your account with mobile number by enter verification code.

Note:

Please provide your registered "username" and "phone number" to our technical support team. We will upgrade your account to an administrator account.



The screenshot shows a mobile registration form with the following fields: "User name" (filled with "allybot"), "Password" (filled with "12345678"), and "Re-enter password" (filled with "12345678"). There are eye icons to toggle password visibility. Below the fields is a checked checkbox for "I read and agree User Agreement and Privacy Policy" and a blue "Next" button. A "Log In >" link is at the bottom.



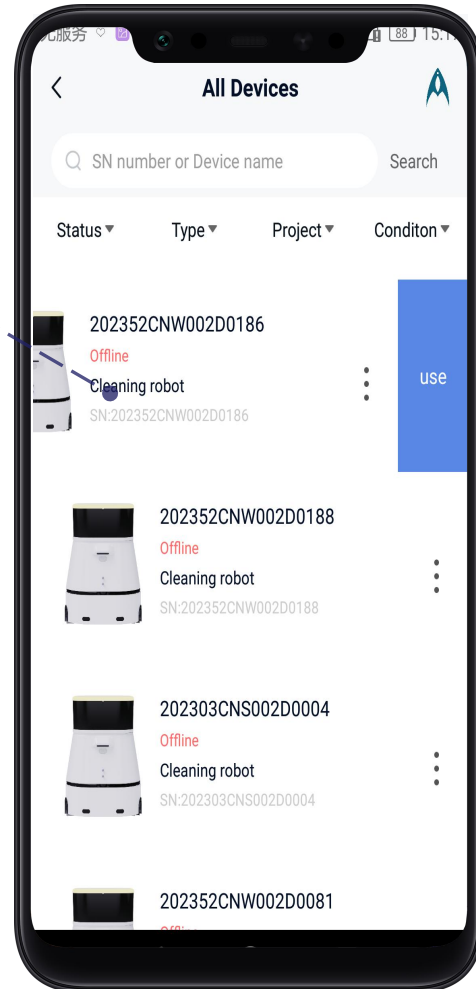
The screenshot shows a mobile "Link mobile" form with a dropdown for country code (set to "+86") and a "Phone number" field. Below is a "Code" field with a "Please enter verification code" placeholder and a "send code" link. A blue "Register" button is at the bottom.

**Log in**

- Password login
- SMS login

# Map Creating

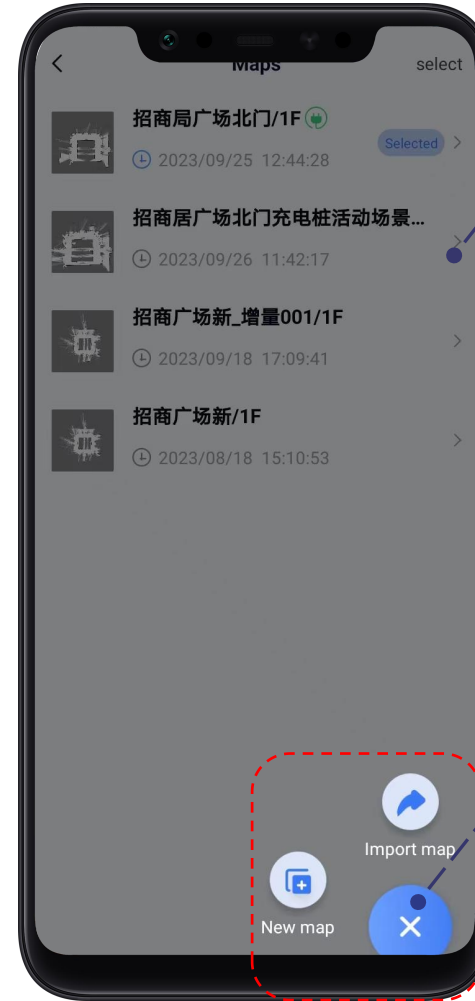
## Map Page



Swiping left reveals a "use" button, then click "use" to connect.



## New Map

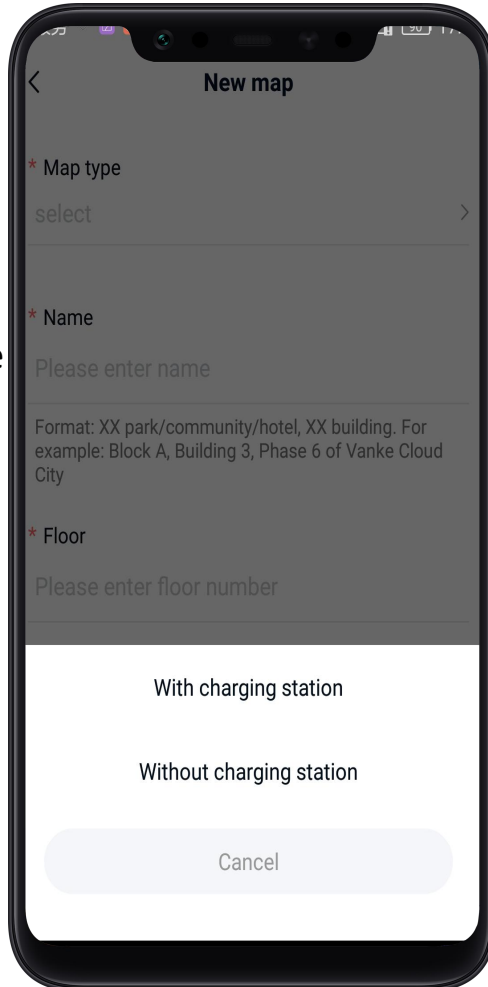


Here are the maps you have already created

Click the "+" button at the bottom right to create a new map

# Map Creating

## Name the map



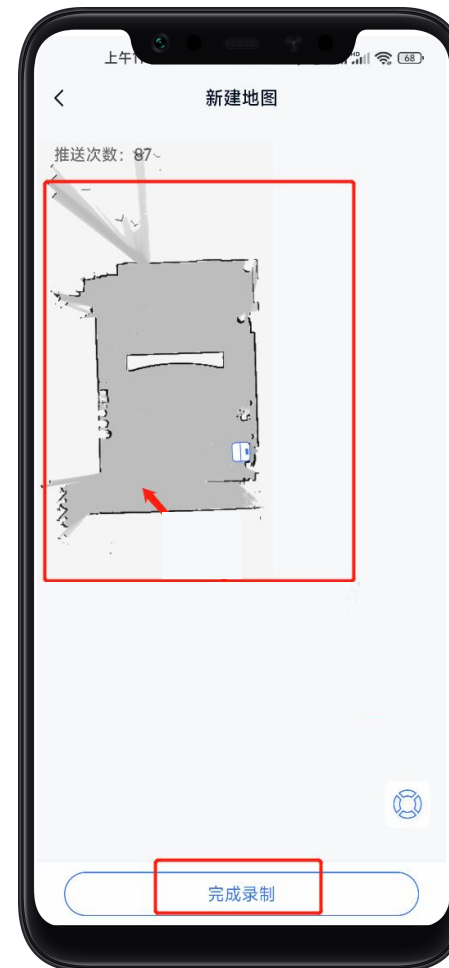
- Choose the map type
- Enter a valid map name
- Select the floor
- Click "Start Recording"



### Remote control mode:

1. Press remote switch
2. Press key "5" for linkage
3. Wait the light belt to turn blue

## Map Recording



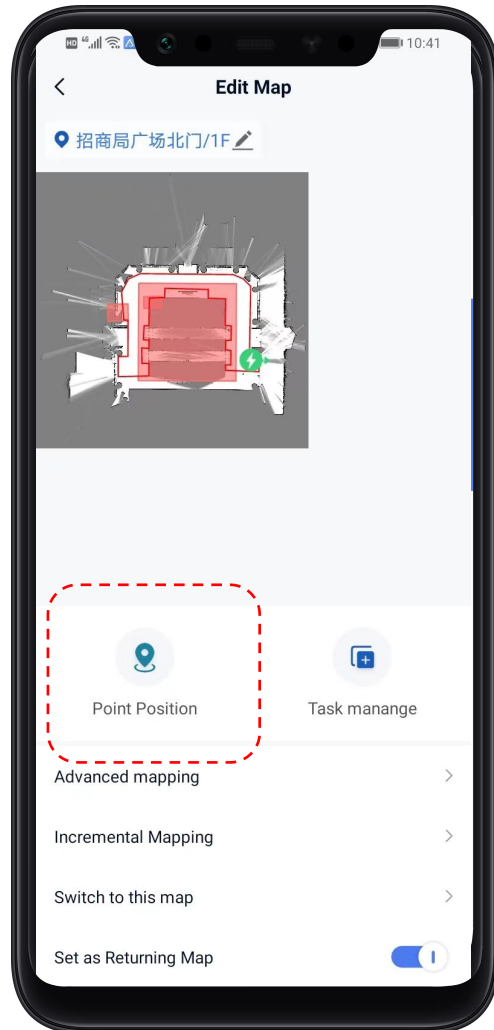
1. Place the robot about 50cm in front of the charging station
2. Control the robot to scan the surroundings

Note:  
Please control the robot the move as near the wall as possible to ensure a higher pricision and avoid any ghost.

3. Return the robot near the starting point to form a closed loop
4. Click "Finish Recording" to save the map

# Map Editing- Point Marking

Click to enter



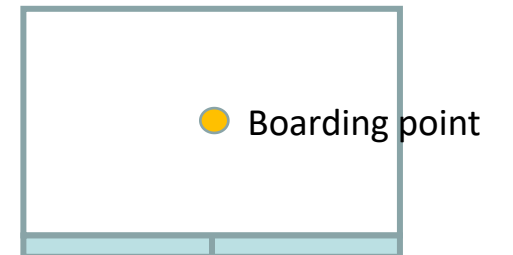
Point Marking



Set special points on the map:

- Charging point for without-station map
- Waiting Point
- Boarding Point (if cross-floor cleaning task)

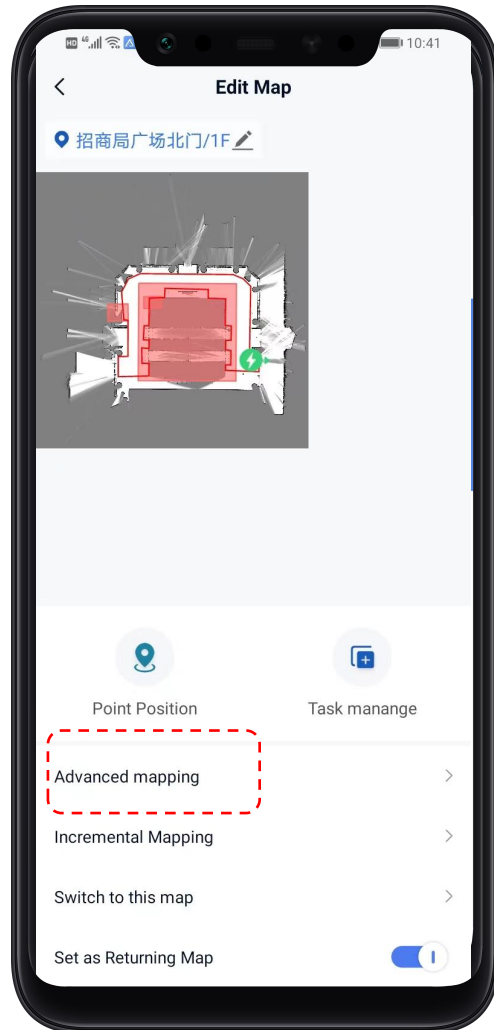
Elevator



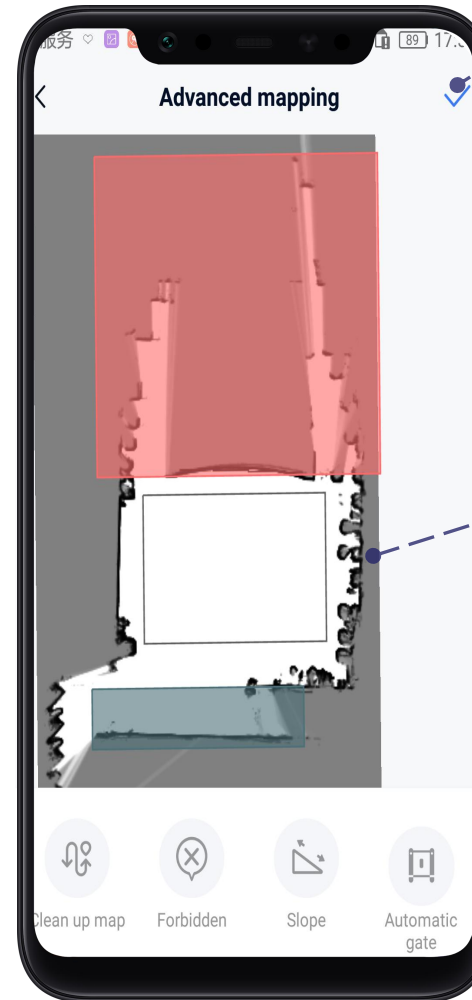
● Waiting point

# Map Editing-Fine Marking

Click to enter



Fine Marking



Click "v" to save all editions

Mark special areas on the map:

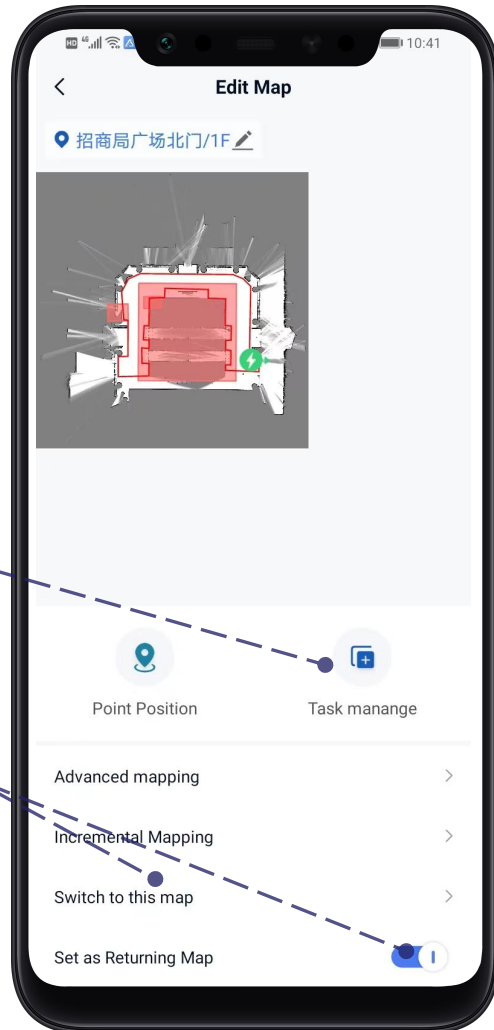
- Accessible areas  
filtering out noises caused by temporary obstacles
- No-go zones
- Slope areas  
the robot's movement slows down in slope areas

Priority: restricted area > slope area > accessible area



# Map Editing-Planning Management

Click to enter

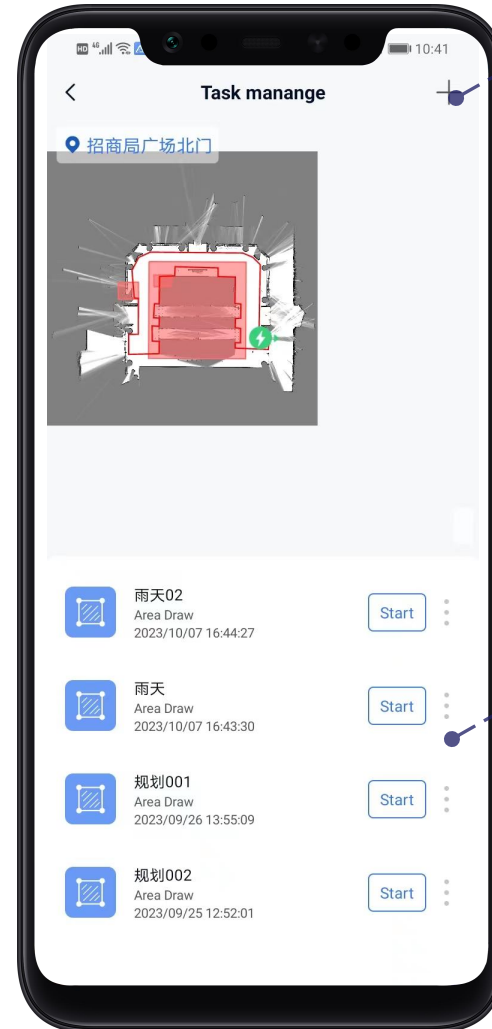


Click to enter task management page

Click to use this map and set it as returning map



Add Plan



Click "+" to create a new plan

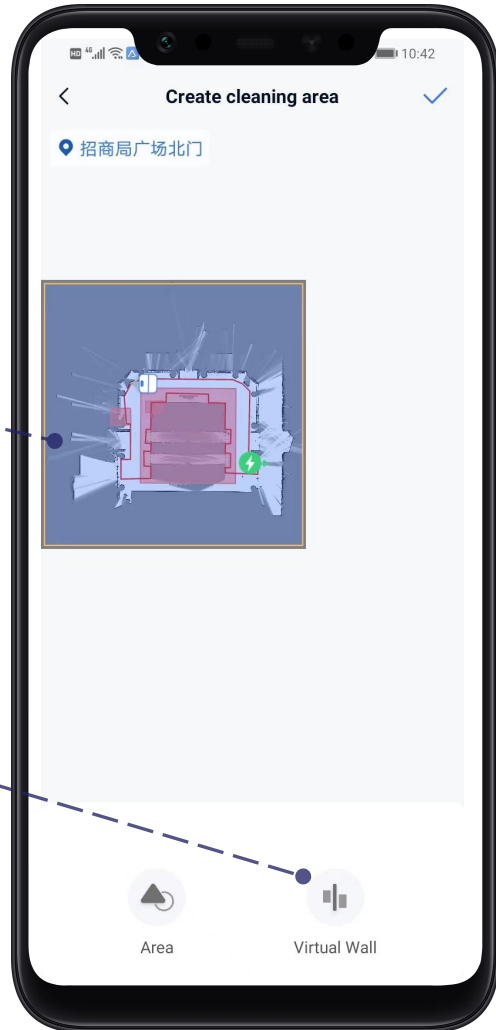
Here are all the plans you have created

# Map Editing-Planning Management

## Plan Area Editing

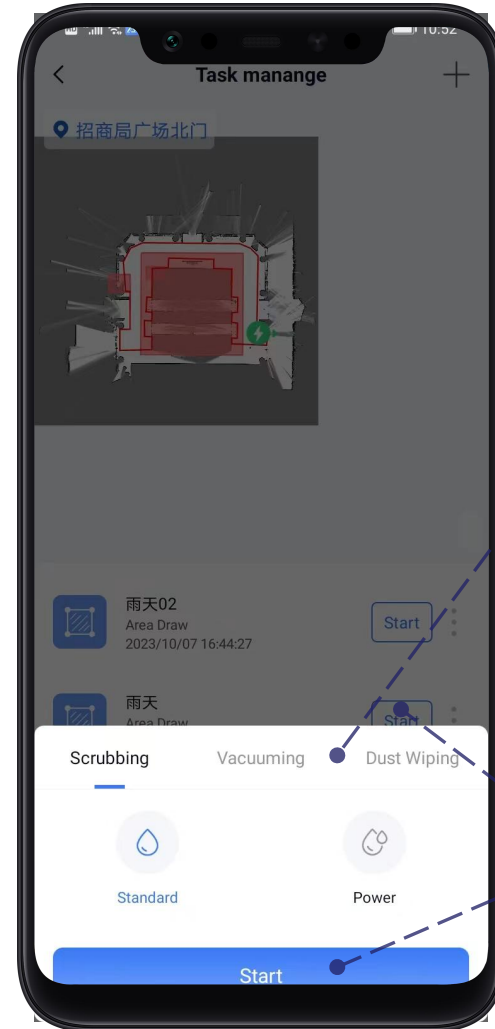


## Working Mode Selection



Create the area that need to be cleaned in this map

Draw a virtual wall to help recognize the area edge

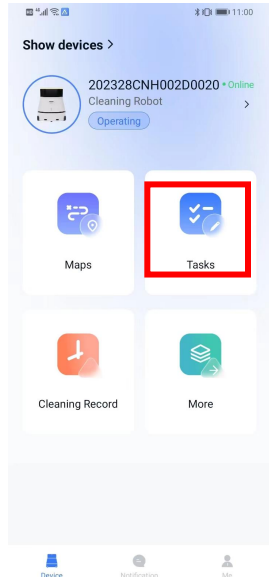


Select cleaning modes and intensities here

Click "Start" to start cleaning immediately, or ignore it.

# Task Management

## New Task

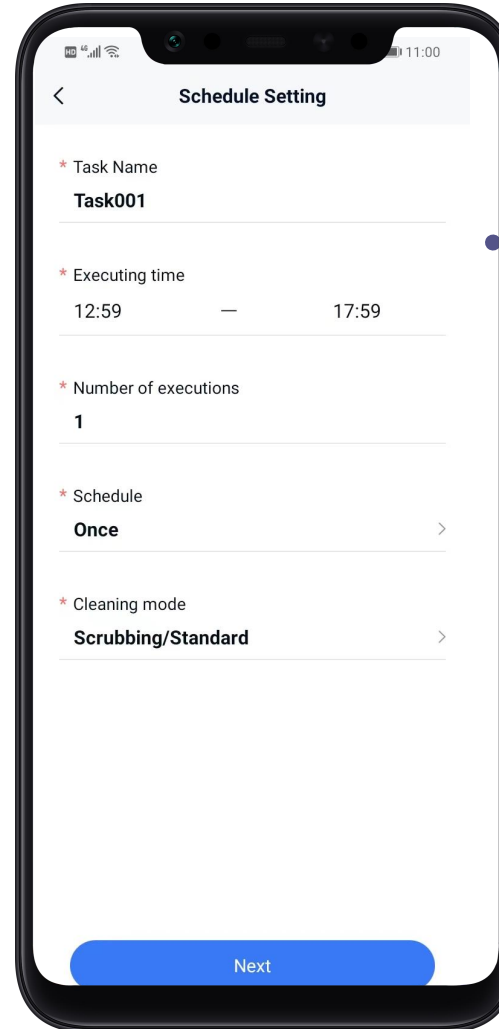


Here are all the tasks you have created

Click to create a new task



## Schedule Setting



Set general information for the new task:

- Name
- Time
- Number
- Schedule
- Cleaning mode

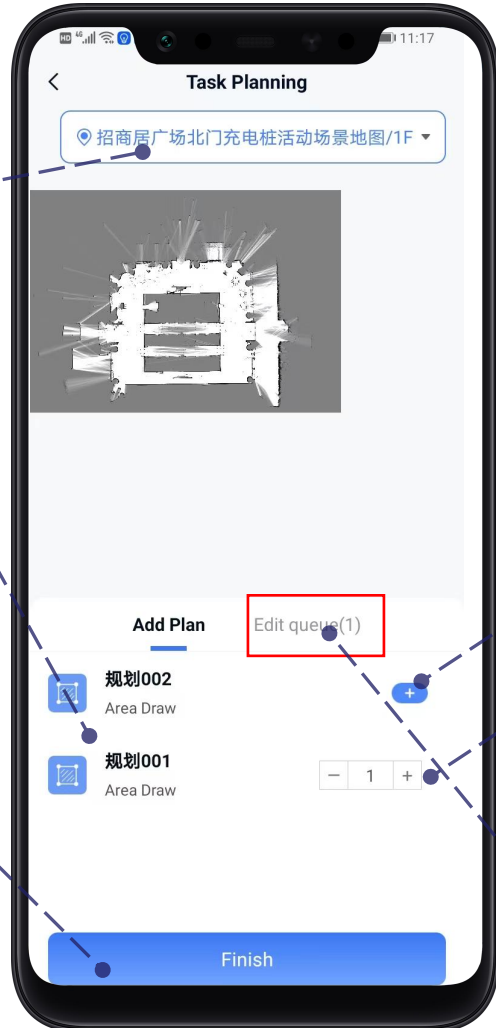
# Task Management

## Task Planning



## Review Tasks

1. Click here to select the target map



Here are all the plans in the map

5. Click to finish

2. Click to add plans

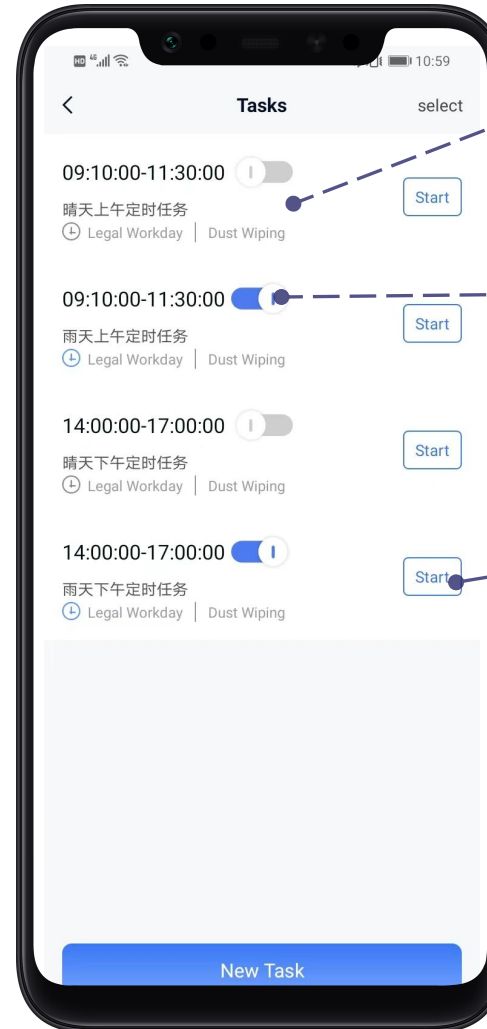
3. Manage cleaning times

4. Click to check the plan list and adjust the sequence

Check the tasks here or click a task to modify it

Turn on the button to activate the task

Click here to start the task immediately

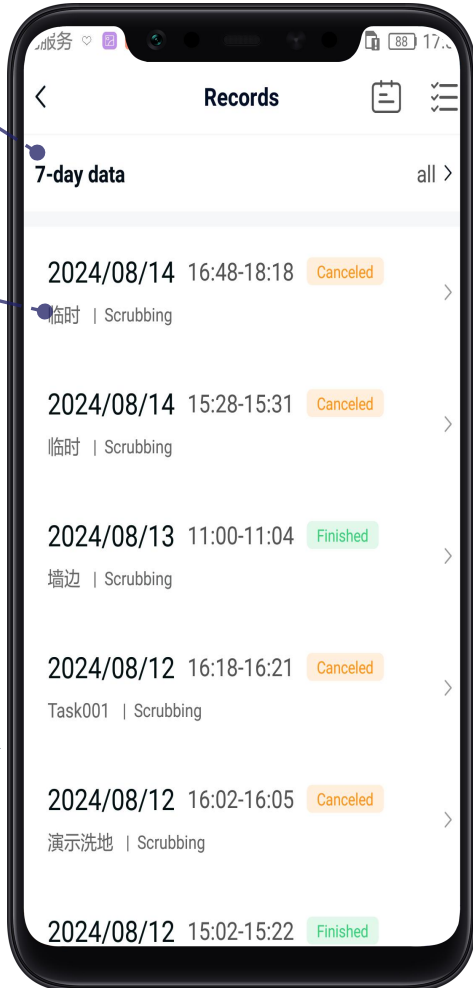
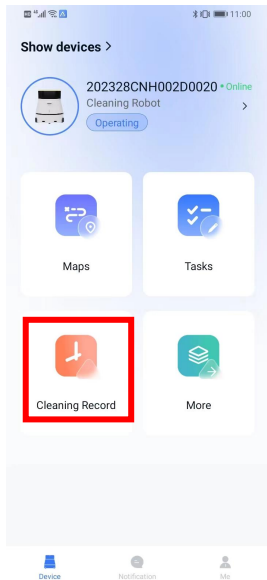


# Cleaning Record

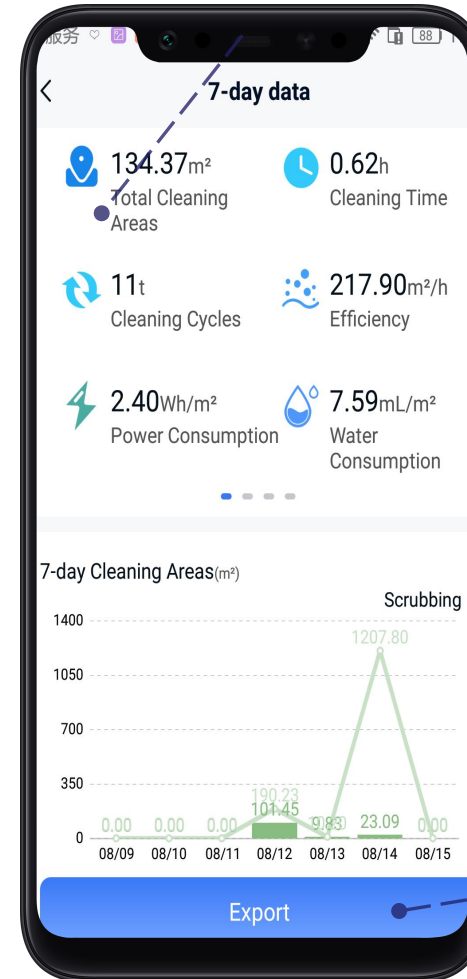
Click to enter

Click to check 7-day cleaning record

Click check details of a single cleaning task



View Record



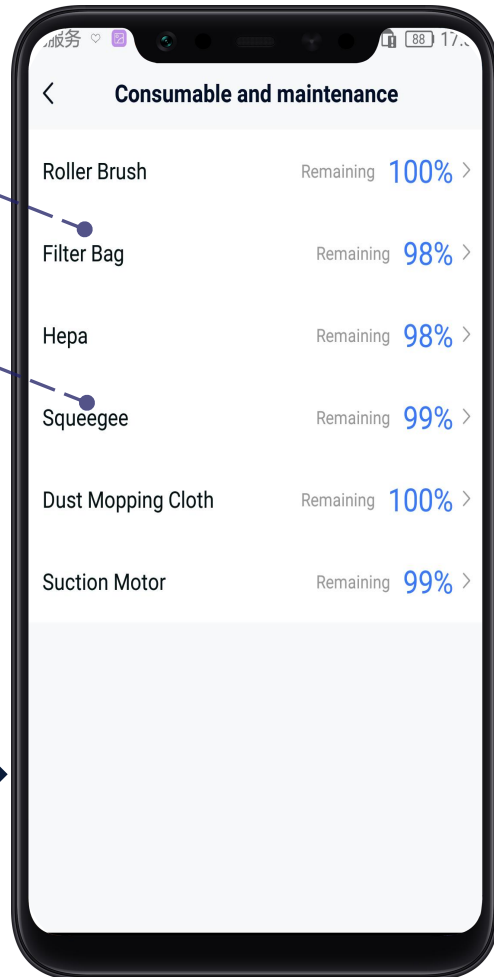
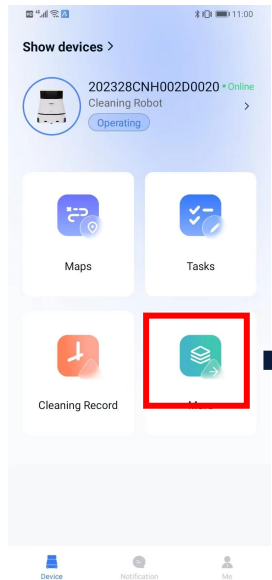
Click to export cleaning record

# Consumable Management

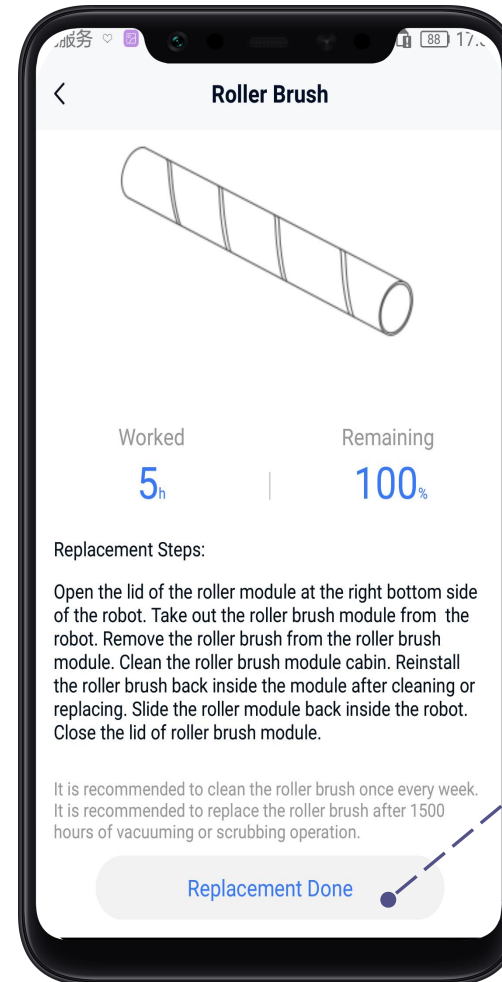
## New Task

Here are status of all consumables

Click a consumable to view details



## Schedule Setting



Click 'Replacement Done to reset data after replacing the consumable'



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# Maintenance Overview





# Adding water

- ① Press the latch on the base of the cleaning water tank to unlock it.
- ② Push the handles on both sides of the water tank upward to unlock the left and right locks, and then pull the water tank outward horizontally.
- ③ Open the silicone cover of water tank and fill it with tap water.

## Disassembly of cleaning water tank



Gently press the latch



Pull out the clean water tank



Add water

Z

H

K

J

# Sewage discharge

- ① Lift the top cover of the robot and take out the sewage water tank.
- ② Remove the sewage tank cover and empty the sewage from the tank.



# Sewage tank cleaning / 7 days

- ① Take out the sewage tank and clean the interior with a brush
- ② Replace the filter bag/ dust bag

## Sewage tank cleaning

Use a brush to clean the interior



Before

VS



After

## Filter/ dust bag cleaning

- Loosen the pull rope of the filter/dust bag below the dirt suction pipe of the sewage tank, and remove it.
- Clean the bag with water and let it air dry, or replace it directly. Reinstall the clean filter bag and tighten the pull rope.



Before



VS



After

# Scrubbing/ Vacuuming roller brush replacement / 7 days

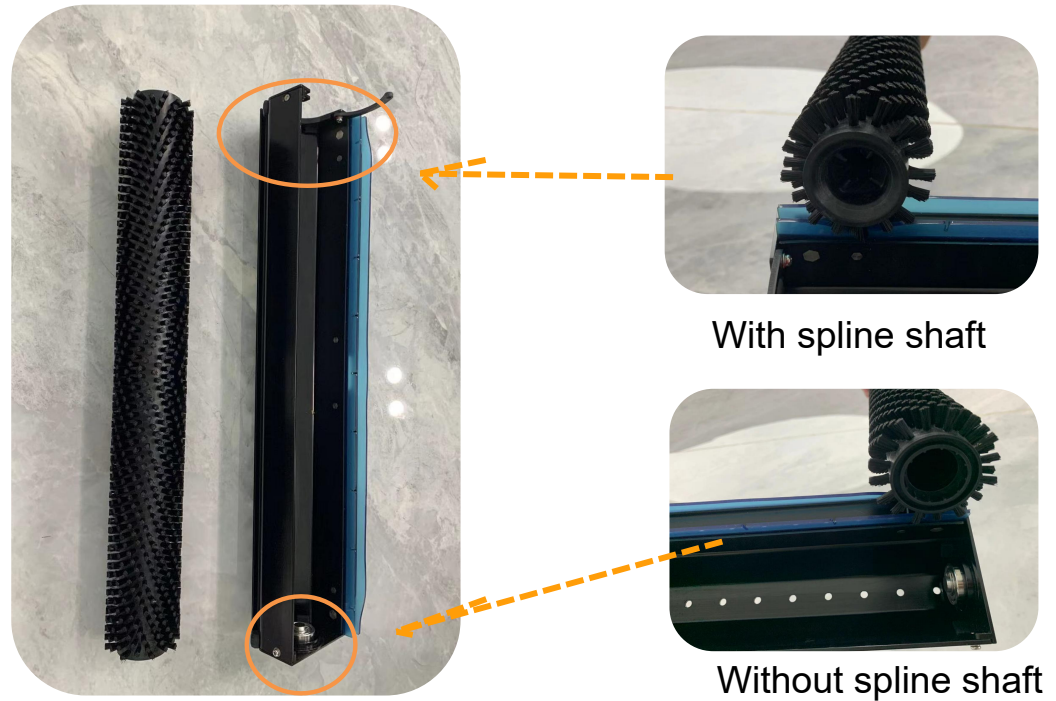
- ① Loosen the screw on the limit bar of the right compartment cover and pull up the limit bar.
- ② Pull the brush out of the component.
- ③ Clean the brush and component and remove any debris, or directly replace the brush with a new one.
- ④ Reinstall the brush into the scrubbing/vacuuming compartment, pull back the limit bar and tighten it with the screw.

Note: the without-spline-shaft side of roller brush need to be aligned with the bearing cover

## Dismantling



## Installation

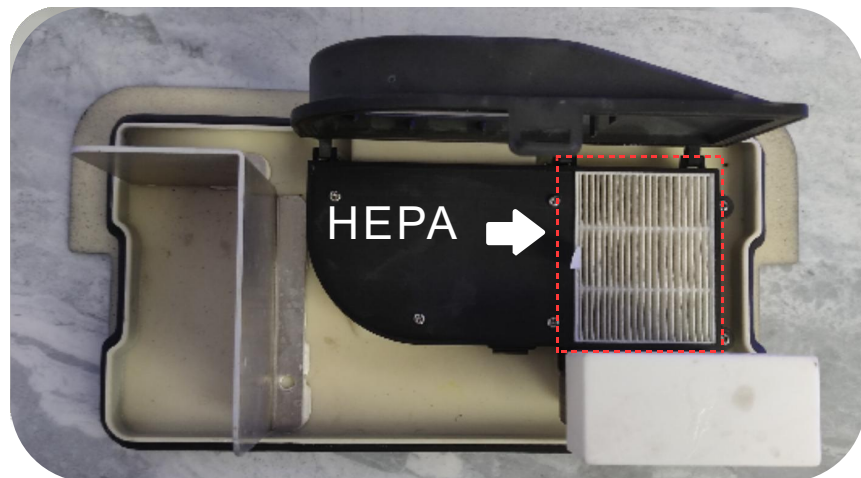
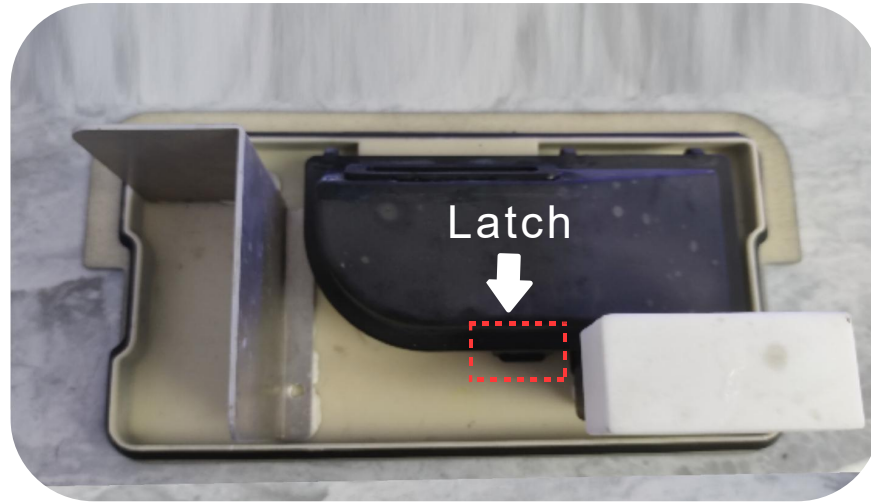


# Mopping pad replacement

- ① Gently remove the mopping cloth from the velcro, and pull out the mopping cloth limit column from the mopping plate O-ring.
- ② Shake off any debris on the mopping cloth, clean it, and let it air dry.
- ③ Insert the limit column into the O-ring, and stick the cleaned or new mopping cloth flatly onto the mopping plate.



# HEPA replacement / 15 days



## HEPA replacement

① Flip over the removed sewage tank cover, release the latch of the HEPA flip cover, and remove the flip cover.

② Take out the HEPA, clean it with water, and let it air dry or replace it directly.

③ Reinstall the clean HEPA and fasten the flip cover



HEPA that needs to be replaced



New HEPA



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# Inspection Overview



## Cleaning Component

- Roller brush
- Suction port
- Rubber strip

## Water Tanks

- Cleaning water tank
- Sewage tank

## Sensors

- Structured-light camera
- 2D LiDAR
- Water flow sensor

## Wheels

- Motor drive wheel
- Universal wheel



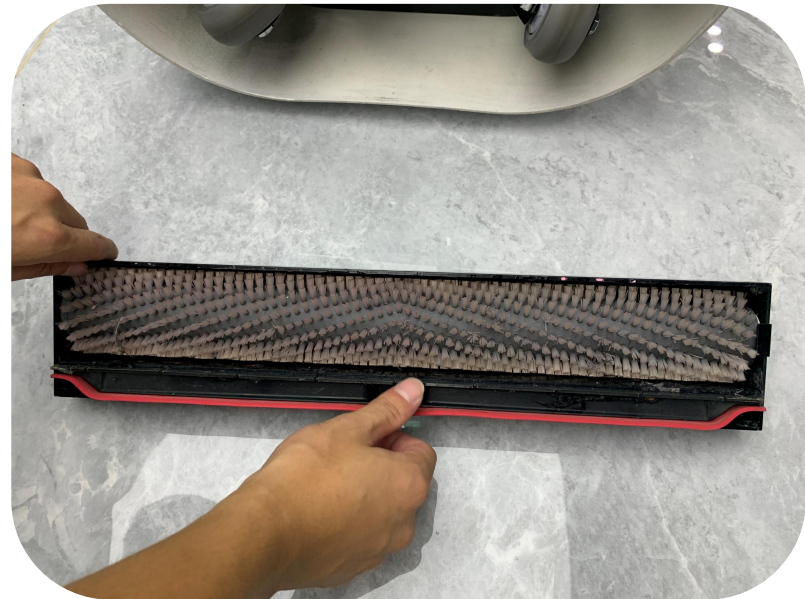
# Cleaning Component / 7days

Pull out the cleaning component from the cleaning compartment;

- ① Check for foreign objects entangling the roller brush.
- ② Check for blockages in the dirt suction port/ on the rubber strip.
- ③ Check for wear and tear on the roller brush and rubber strip.



Remove blockages in the dirt suction port

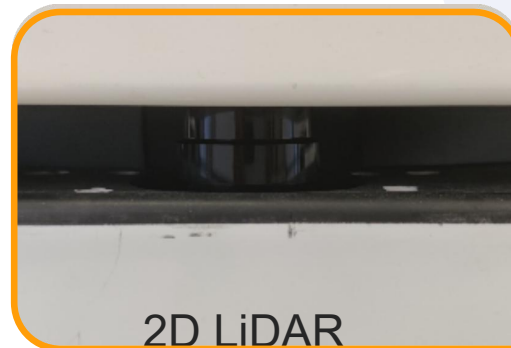


Replace the worn rubber strip

# Robot Sensors Cleaning / 30 days



Structured light camera



## Sensor cleaning

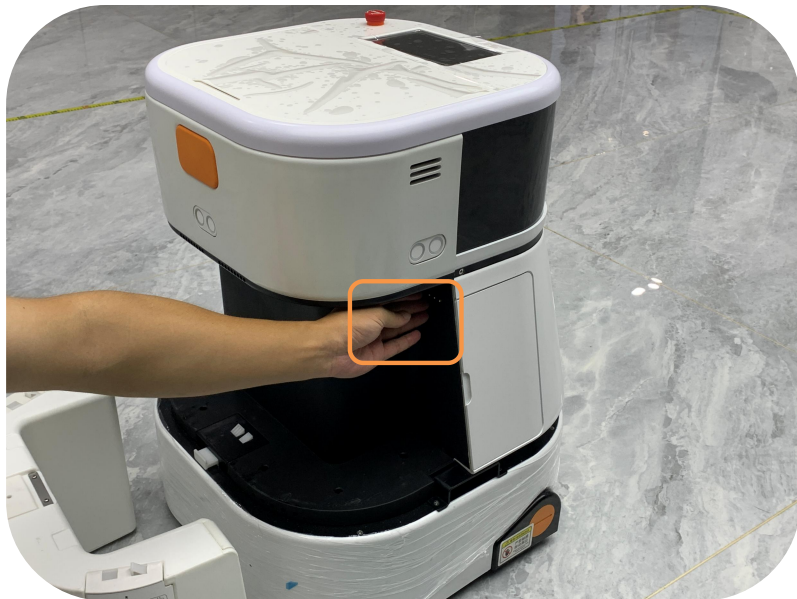
Use a soft cloth to wipe off the dust on the surface of structured light cameras and 2D LiDAR.

# Water Tank / 15 days

- ① Check for wear and surface dirt of the pin/copper column of **the clean water tank**.
- ② Check for wear and surface dirt of the pin/copper column of **the sewage tank**.

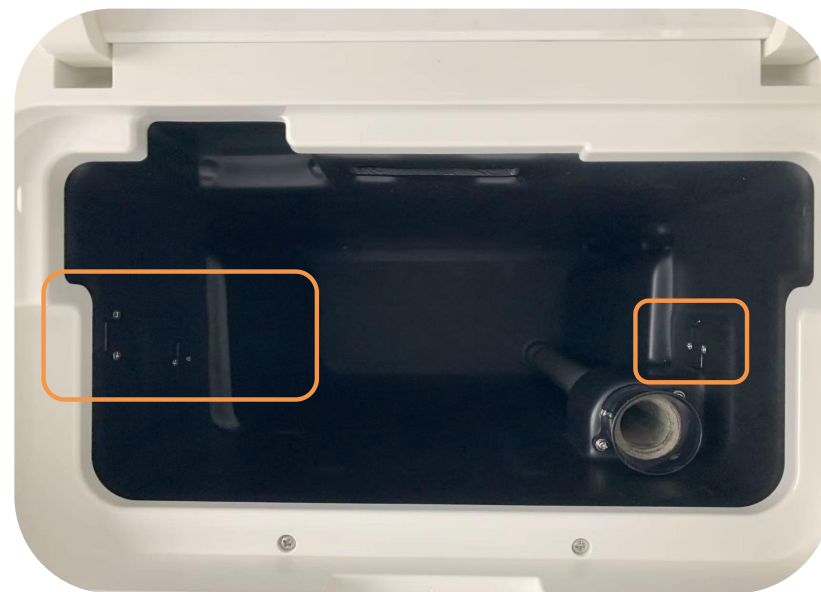
Cleaning water tank

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Sewage tank

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# Water Tank / 30 days

- ① Remove the silicone cap to inspect the filter pipe for foreign objects, and clean it with tools.
- ② Remove the sewage tank, check for foreign objects in the suction port, and clean it with tools.

filter pipe

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suction port

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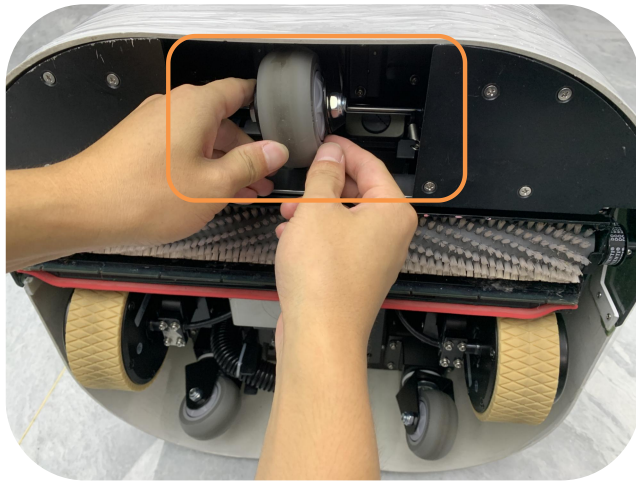


# Wheels / 30 days

- ① Power off the robot, and remove the cleaning water tank and sawege tank
- ② Gently lay the robot down and clean foreign objects entangling the wheels
- ③ Reinstall the tanks and power on the robot

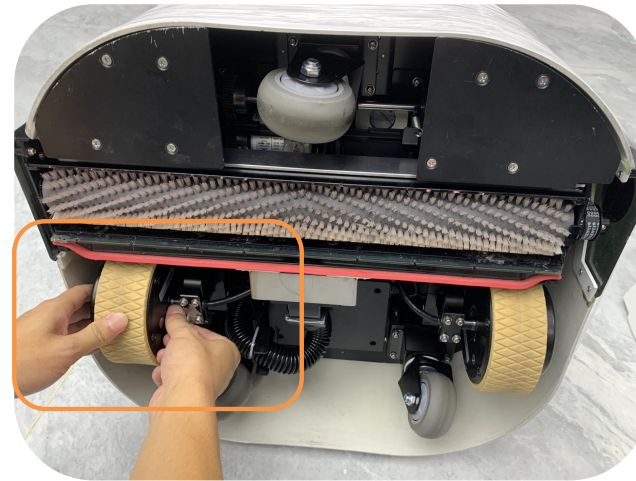
Universal wheel cleaning

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Motor drive wheel cleaning

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