智绘科技
Intelligence.Ally Technology

Allybot-C2
App User Manual

Applicable Versions：

App v1.6.6

System v2.0.0

智绘科技
Intelligence.Ally Technology

Dear user:

Thank you for purchasing the ALLYBOT-C2 commercial cleaning robot (hereinafter referred to as the robot or the product). This product is an independently developed commercial cleaning device by Intelligence.Ally Technology, integrating scrubbing, vacuuming, and mopping functions and capable of continuous 24-hour cleaning operations. Equipped with autonomous operational capabilities and a fully functional station, it supports self-recharging, self-cleaning, and makes sewage discharge and water filling easy. This product can be widely used in places such as hospitals, shopping malls, schools, exhibition halls, office buildings, and waiting halls.

To ensure proper and efficient use of this product, please read this document carefully before using the robot and keep it for future reference.

If you encounter any issues during use, you can call the service hotline at 86-755-86571078, and our professional staff will assist you. The images and diagrams in this manual are for reference only. Due to potential software and hardware version differences, please refer to the actual received version. If you have any questions, please contact us for assistance.

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This manual is solely applicable to the usage, operating conditions, and environmental requirements of this specific product model.

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Intelligence.Ally Technology reserves the final right of interpretation for this manual.

If no written objections to this manual raised, it indicates your acceptance of the above terms.

Disclaimer:

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We are not liable for any infringement, robot damage, or other issues caused by the user's independent installation of third-party services not recognized by Intelligence.Ally Technology or by the dissemination of information through the robot management platform.

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If you have any concerns about Intelligence.Ally Technology's products, please call the hotline at 0755-86571078.

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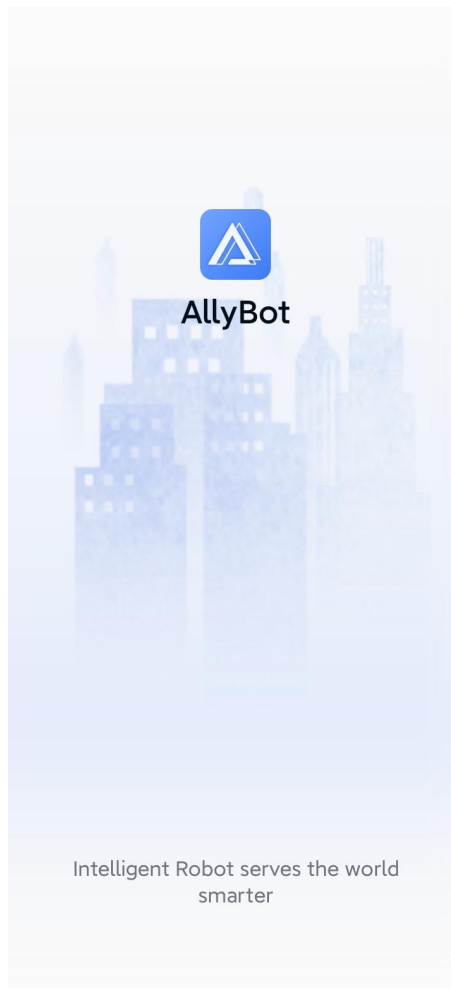
Content

1. APP Installation and Launching

You can download and install the AllyBot mobile app from the Android app market. The launch icon after installation is shown below.
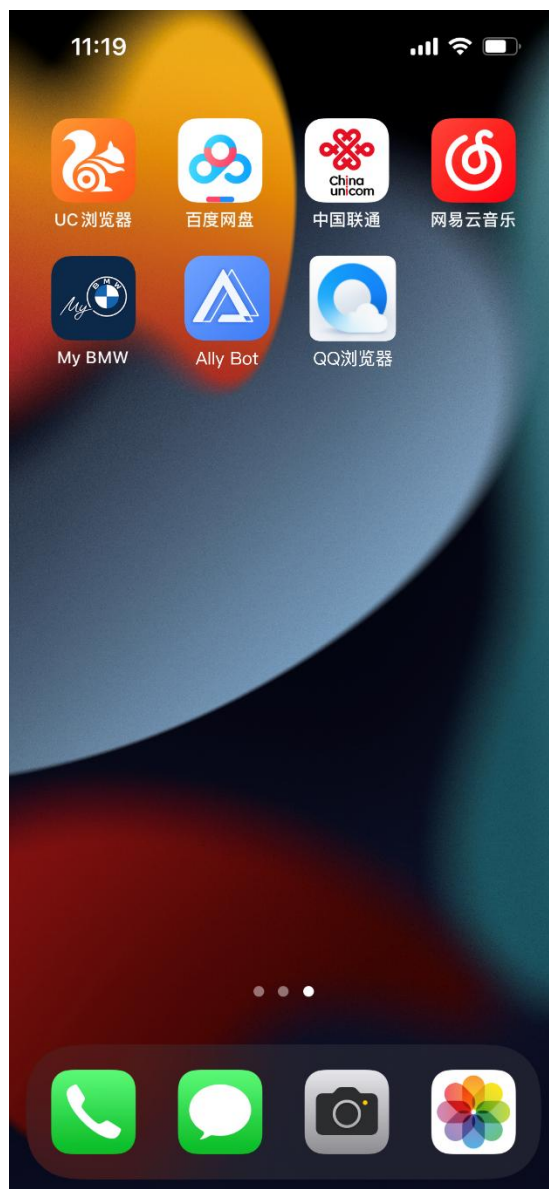
Click the icon to run the software. The App launch page is shown below.

Note：

➢ For the international version of the app, please download and install it via Google Play or Apple App Store.

➢ If you are unsure of the robot's version, you can contact our technical support for confirmation, or obtain the software package through our technical support or sales for installation and use.

2. Login and Registration

2.1. User Login

After successfully launching AllyBot, you will enter the password login page, as shown in the image below. Enter your correct username and password, then click the [Log In] button to login.

You can also switch to the verification code login page by clicking the [SMS Login] button in the top tab bar. To log in via mobile verification code:

1. Click [+86] to switch to different countries or regions, then use the corresponding mobile number for login;

2. After entering your phone number, click the [send code] button. The system

will send a text message containing a verification code valid for 5 minutes;

3.　　Enter the correct verification code and click the [Log In] button to complete the login process;

4.　　If you do not receive the SMS or enter the correct verification code within 60 seconds, click [send code] to send a new verification code.

English ▸   English ▸

| Password Login | SMS Login | | Password Login | SMS Login |

+86 ∨   +86 ∨

13030303030   13030303030

Code   Code

Please enter verification code   send code   136555   ⊗ send code

○ I read and agree User Agreement and Privacy Policy   ✓ I read and agree User Agreement and Privacy Policy

Log In   Log In

Note:

➢　　After the initial successful login, if you exit the app without logging out, the app will automatically log you in and take you to the homepage the next time it is launched.

➢　　If you log out of your account, you will need to log in again the next time

you start the app to access the homepage.

2.2.Forgot Password

If you forget your password when logging in, you can reset it by following these steps:：

1. Click the [Forget password] button on the password login page. The interface will redirect to the mobile verification page. Enter your correct phone number on this page, then click the [send code] button；

2. After sending the verification code, you will receive an SMS with the code within 5 minutes. Enter the correct verification code and click the [Next] button to proceed to the password reset page；

3. If you do not receive the SMS, you can click [send code] after 60 seconds for a new code；

4. On the password reset page, enter your new password and confirm it by entering the same password again, then click the [Confirm] button to complete the password reset；

5. After resetting your password, the interface will redirect to the password login page, where you can log in using your newly reset password.

2.3. New User Registration

If you do not have an account, click the [Register] button on the bottom of the password login page to go to the new user registration page:

1. On the new user registration page, enter a valid username, password, and confirm your password. Then click the [Next] button to proceed to the phone number linking page.

2. On the phone number linking page, select the country code, enter your phone number, and click the [Send Code] button. Enter the valid SMS verification code received on your phone within 5 minutes, then click the [Register] button to complete the registration.

English ▸   ‹

Link mobile

Register

+86 ∨

User name

Phone number

6-18 characters of alphanumeric
symbols,start with a letter

Code

Password

Please enter verification
code

send code

6-18 characters of
alphanumeric symbols

⌣

Please enter password

Please enter the password again   ⌣

Register

Next

◯ I read and agree User Agreement and Privacy Policy

Log In ›

After successful registration, you will be automatically redirected to the homepage.

3. Homepage

3.1.Device

After logging in, the default page you enter is the Device page. At the bottom of the homepage, you can click the [Notification] and [Me] buttons to navigate to the notification management page and user management page, respectively.

3.1.1. Regular Users

Newly registered accounts are by default regular users without any organization linking. If you need to join an organization project, you can contact the organization administrator to assign a project, as shown in the left image below. Once your account has joined an organization project, the Device page will display all devices associated with your account's project, as shown in the right image below. Clicking on a device will take you to the detail page for that device.
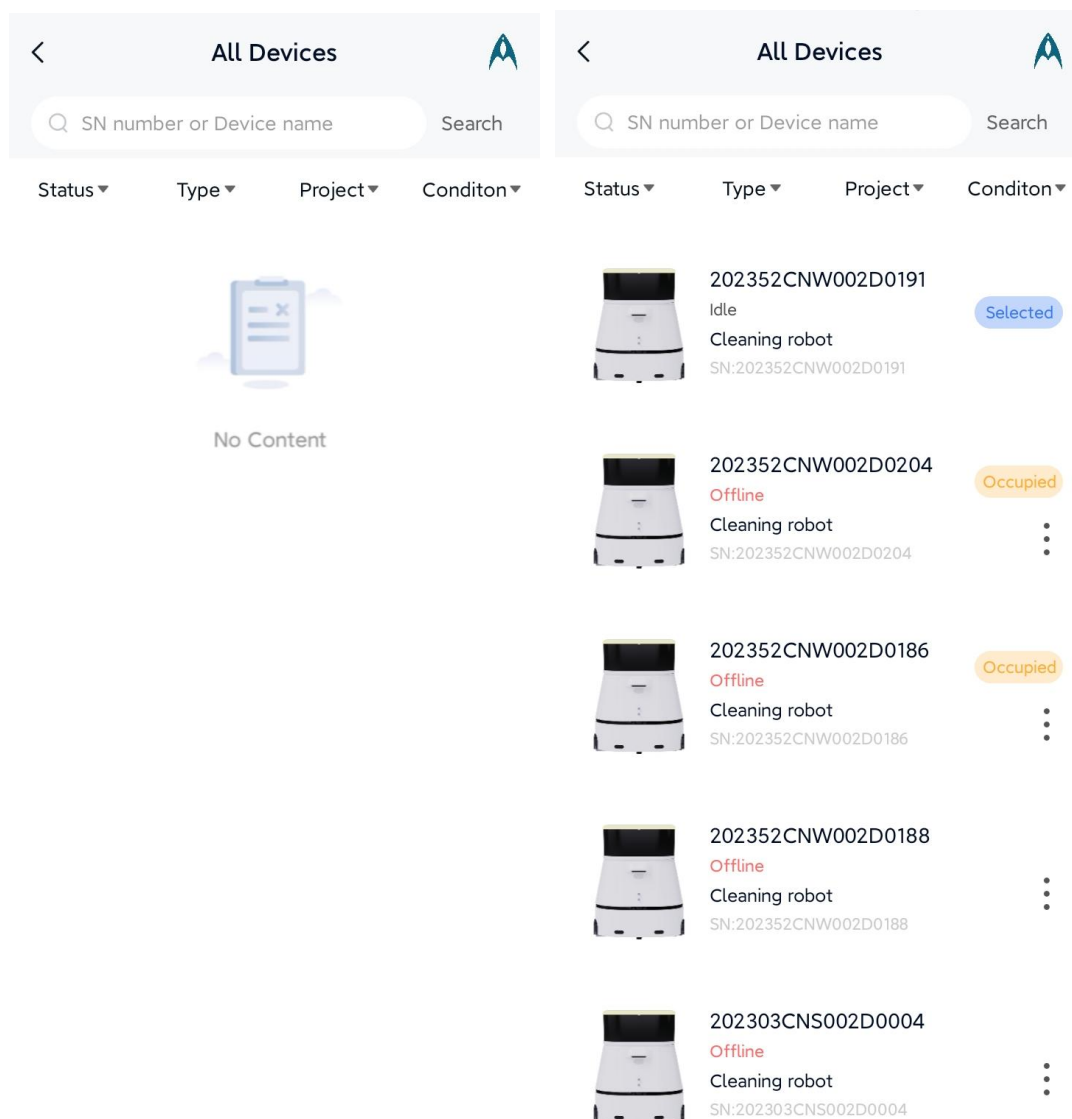
3.1.2.   Administrators

Administrator accounts are by default linked to all devices under the organization. Upon entering the Device page, if the current account has not used any devices, a default page will be displayed, as shown in the left image below. If the current account has used devices, the Device page will display the information of the devices currently in use by default, as shown in the right image below.
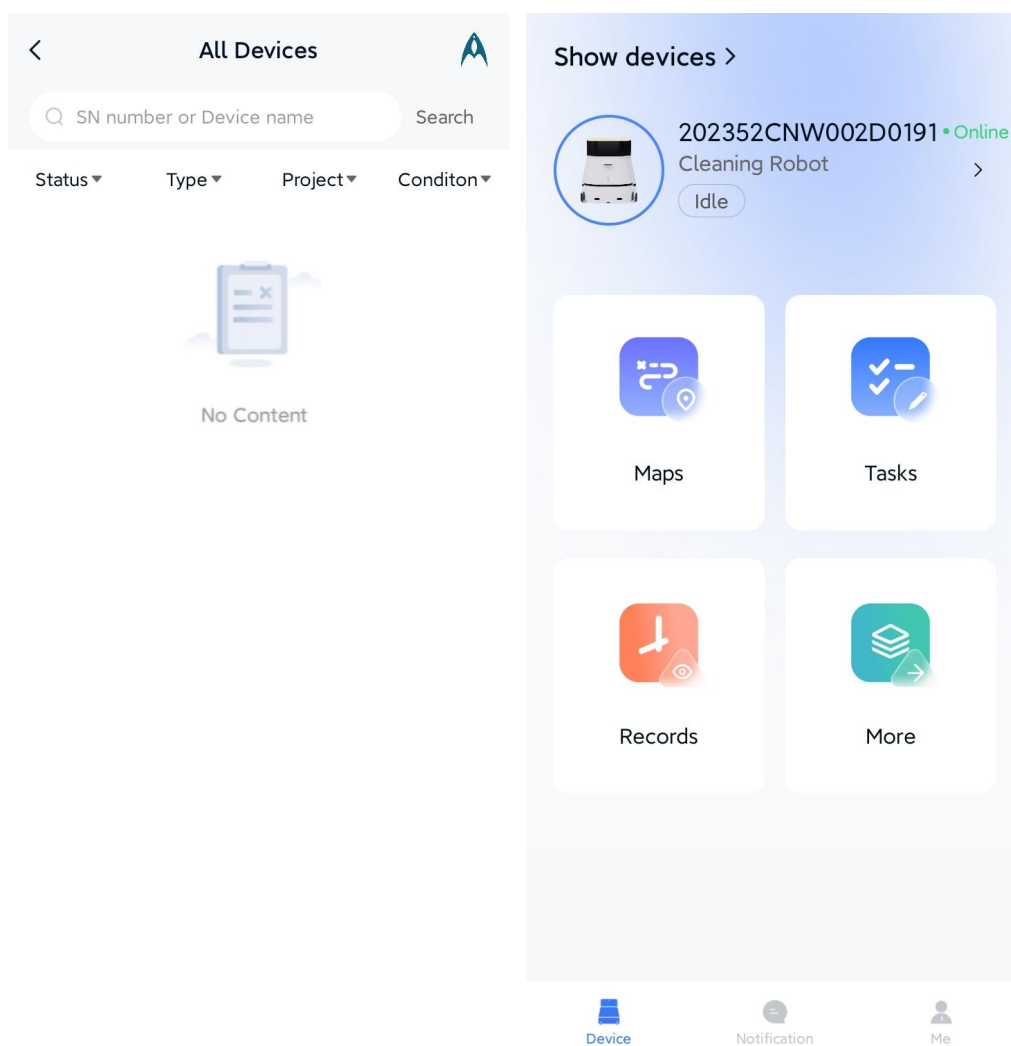
The page will display information about the device currently in use, including the device image, device name, device type, device status (Online/Offline), battery level, online status (e.g., Abnormal, Emergency Stop, Charging, Operating, Paused, Idle, Returning), and quick access to common functions (Maps, Tasks, Cleaning Record,

and More).

You can enter the multi-device management page by clicking the [Show devices] button in the top left corner of the page. Clicking on a device information card will navigate you to the device detail page, where you can perform further operations on the device currently in use.

3.2.All Devices

3.2.1.   Regular User

After a regular user links to an organization, the homepage by default displays all devices associated with the account, as shown in the image below.
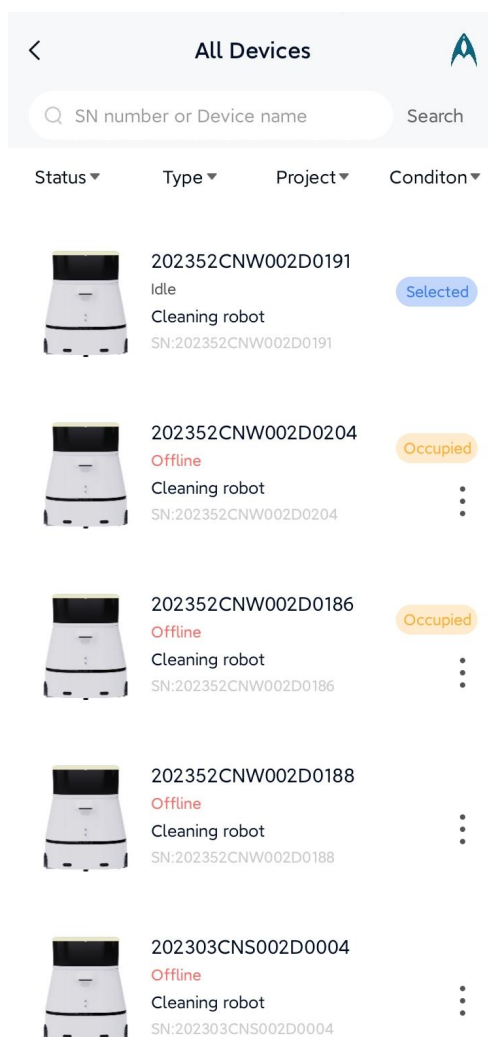
The list displays all devices associated with the account and shows basic information about each device, including: device name, device type (Patrol/ Sweep/ Cleaning/ Delivery), device SN, device status (Offline/ Abnormal/ Charging/ Idle/ Operating/ Paused), and device condition (Selected/ Occupied).

You can quickly search for a target device by entering the device name or SN code in the top input box, which will display the results in the list. Below the top input box, you can filter devices by clicking [Status], [Type], [Project], or [Condition] to show specific categories of devices in the list.

Clicking on a device item in the device list will take you to the device detail page.

3.2.2. Administrator
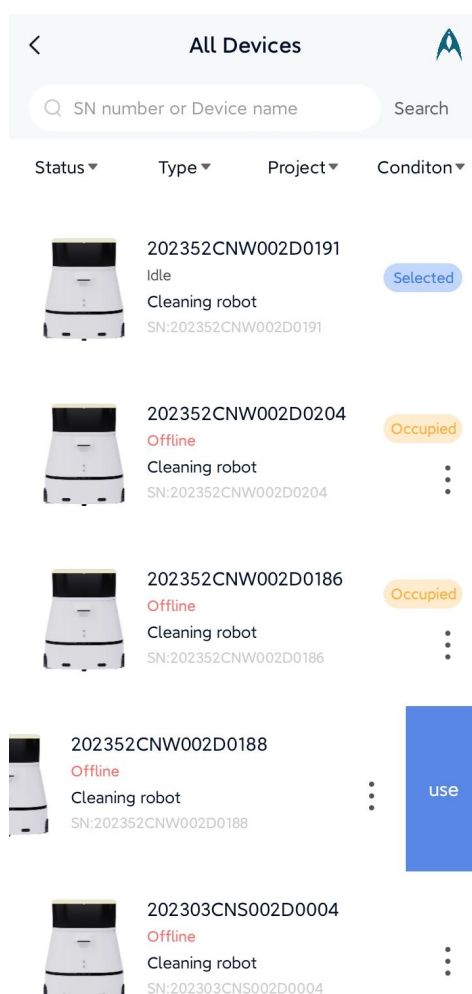
1.By default, administrators see all devices under the current organization. Upon entering this page, all devices will be listed along with their basic information.

2.For each device item in the list, swiping left will reveal the [use] button:

（1）For devices not currently in use: Swiping left will display the [use] button. Clicking the [use] button will immediately use the device. The current device item will be pinned to the top, and a "Selected" status will appear on the right.

（2）For devices currently used by other users: Swiping left will display the [use] button. Clicking the [use] button will override the current user's status, allowing you to use the device directly.

（3）For devices currently in use: Swiping left will not display any buttons.

3.3.Device Details

Regular users can click on a device in the homepage device list to access the device detail page, as shown in the lower left image. Administrators, when using a device, can click on the card of the currently used device at the top of the homepage to access the device detail page, as shown in the lower right image.
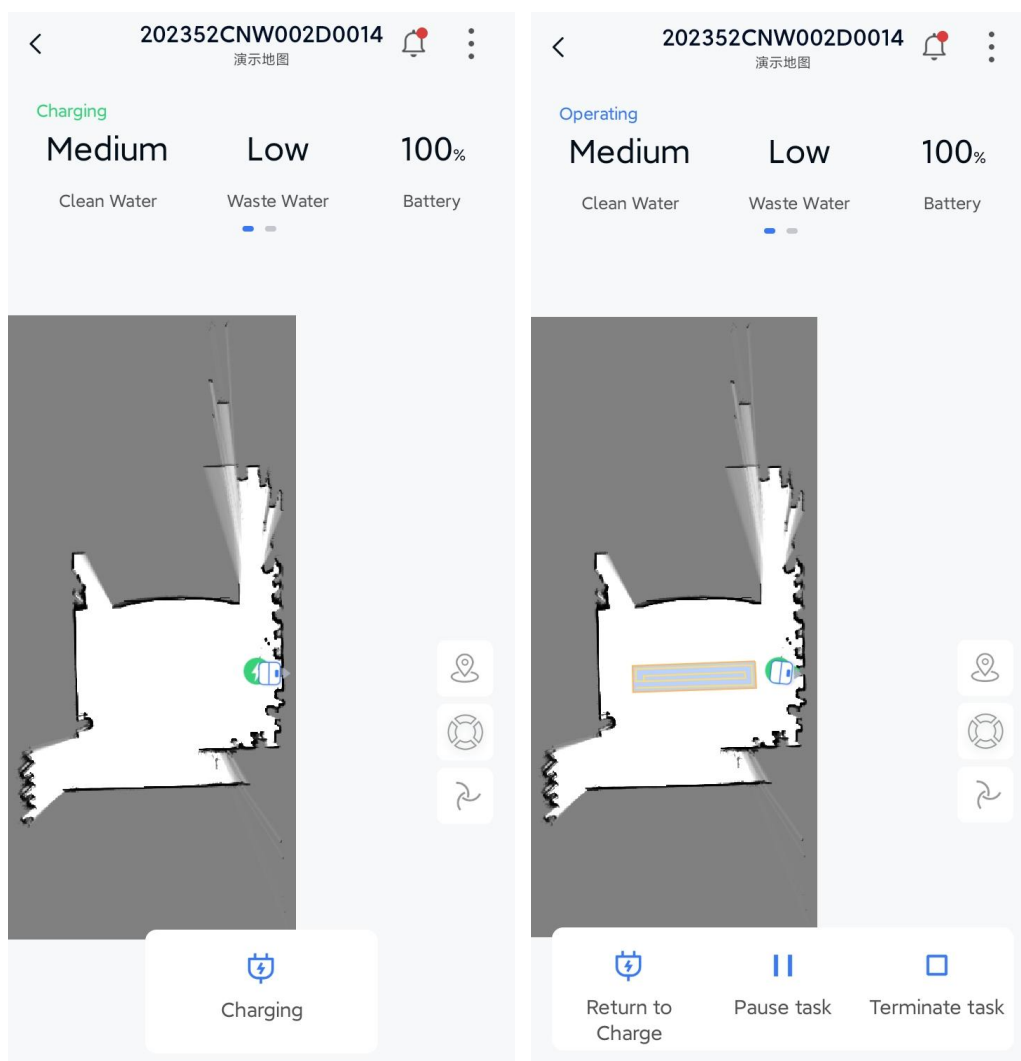
Regular User   Administrator

On the device detail page, regular users can only view the robot's map, location, and robot information (Status, Clean Water, Waste Water, Battery), among other details. Administrator users, in addition to viewing robot information, can perform further operational tasks on the currently used device.

On the device detail page, the content area below the top navigation bar displays the robot's current status at the top; the content area primarily shows the robot's current map and location. The [More] button ⋮ on the right side of the top navigation bar allows access to additional features. The icons at the bottom of the page and the [Current Device Notification] button 🔔 on the right side of the top navigation bar are

common operation buttons for the robot.

1.Current Status

You can swipe left or right on the current status page to view the robot's basic status and current task status, as shown in the image below.
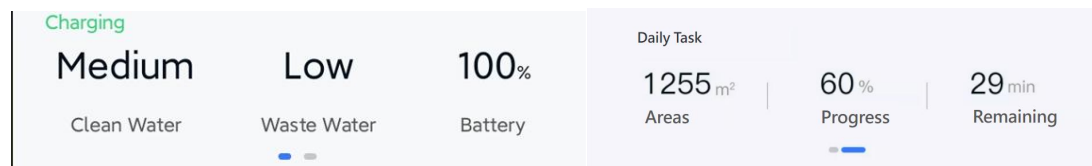
2.Common Functions

The top navigation bar includes message management. Common functions also include specific functions corresponding to the [Map Tool], [Remote Control], [Cleaning Mode], [Auto-returning], and [Quick Clean] buttons in the content area. These will be introduced in detail later in the respective modules.

Except for the [Map Tool], other common functions are available only to administrators.

3.More Functions

Regular users do not have access to the [More].

Administrators can click the [More] button to access additional functions, including Maps, Tasks, Records, Consumable and maintenance, My Device, Initialize location, and Setting, as shown in the image below. Clicking outside the window will close it.
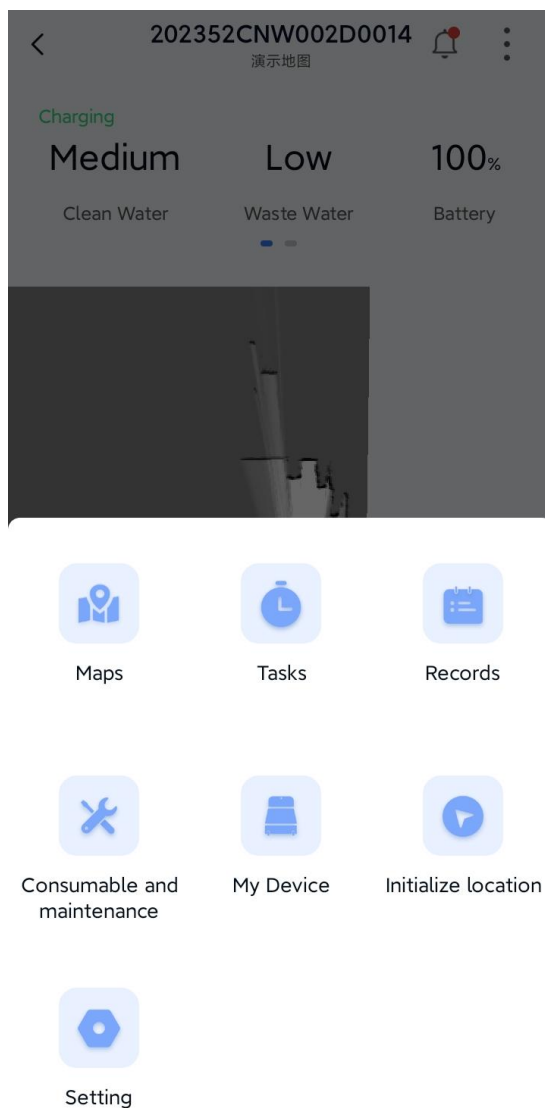
3.4.Current Device Notifications

The message icon on the right of the top navigation bar on the current device page indicates whether there are new messages: 🔔 represents new messages, while

🔔 indicates no new messages. Clicking the message icon will take you to the Current Device Messages page, as shown in the image below. On this page, you can switch between [Warning] and [Operation Log] tabs to view the respective notifications.
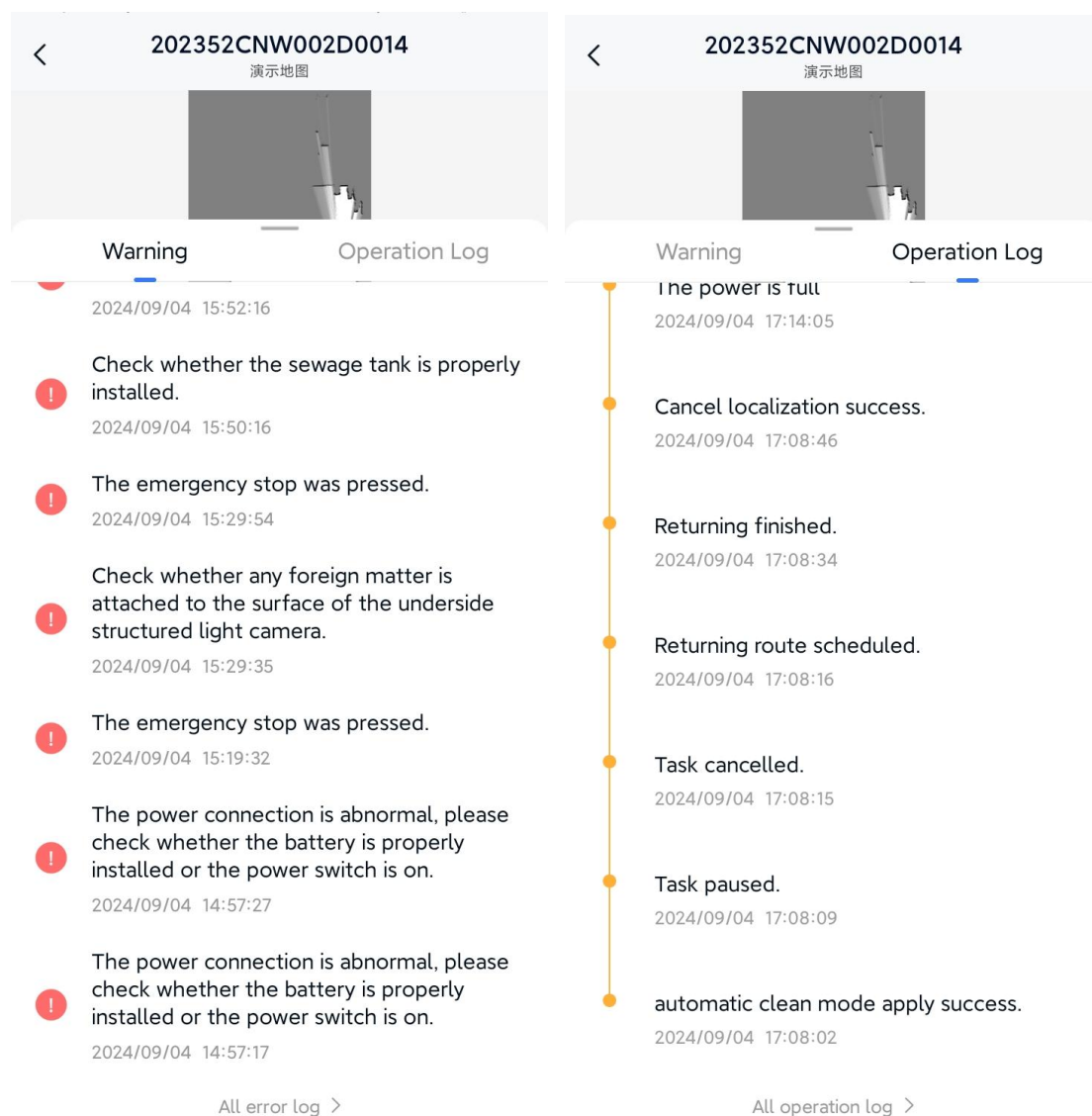
The map on the page shows the device's current location and robot position, allowing you to quickly locate the map.

3.4.1. Warning

When switched to Warning on the Current Device Notification page, the page displays recent exception information. Clicking [All error log] at the bottom will navigate you to the warning page. On this page, click the [Time Filter] button⊡ on the right side of the top navigation bar to filter and view error log from the last 3

hours, the last day, or the last week from a pop-up box at the bottom.
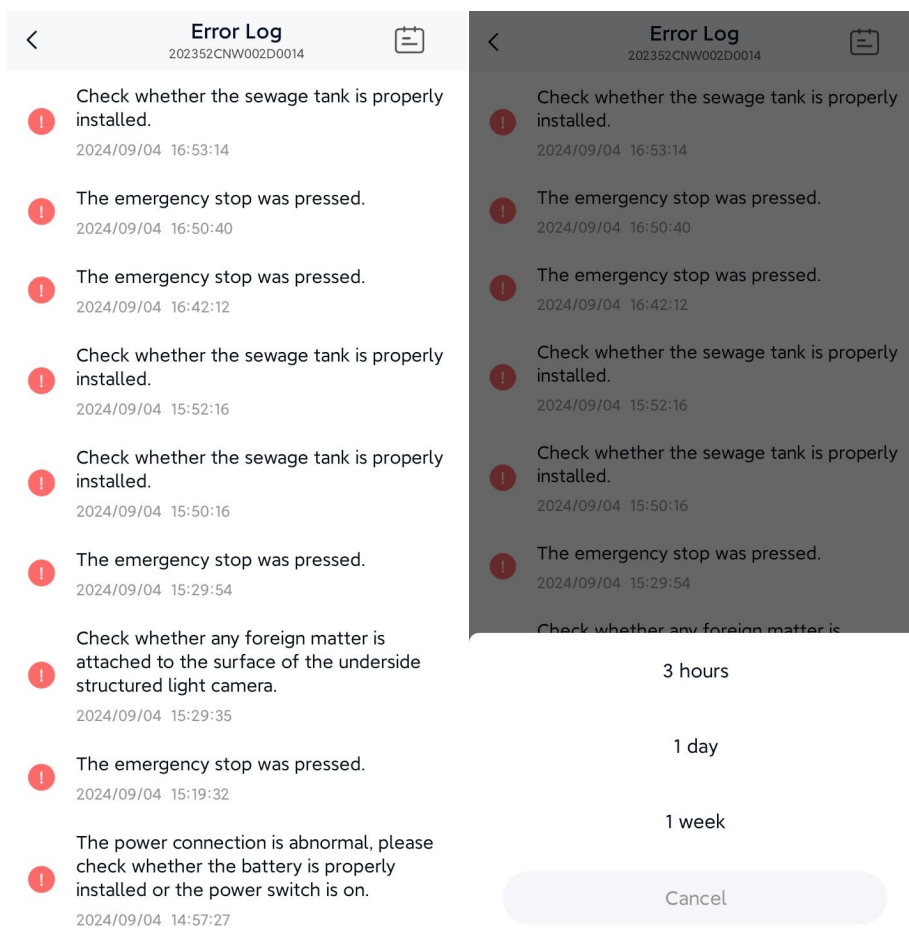
3.4.2. Operation Log

When switched to Operation Logs on the Current Device Messages page, the page displays unread operation information. Clicking [All Operation log] at the bottom will navigate you to the Operation Records page. On this page, click the [Time Filter] button on the right side of the top navigation bar to filter and view operation records from the last 3 hours, the last day, or the last week from a pop-up box at the bottom.
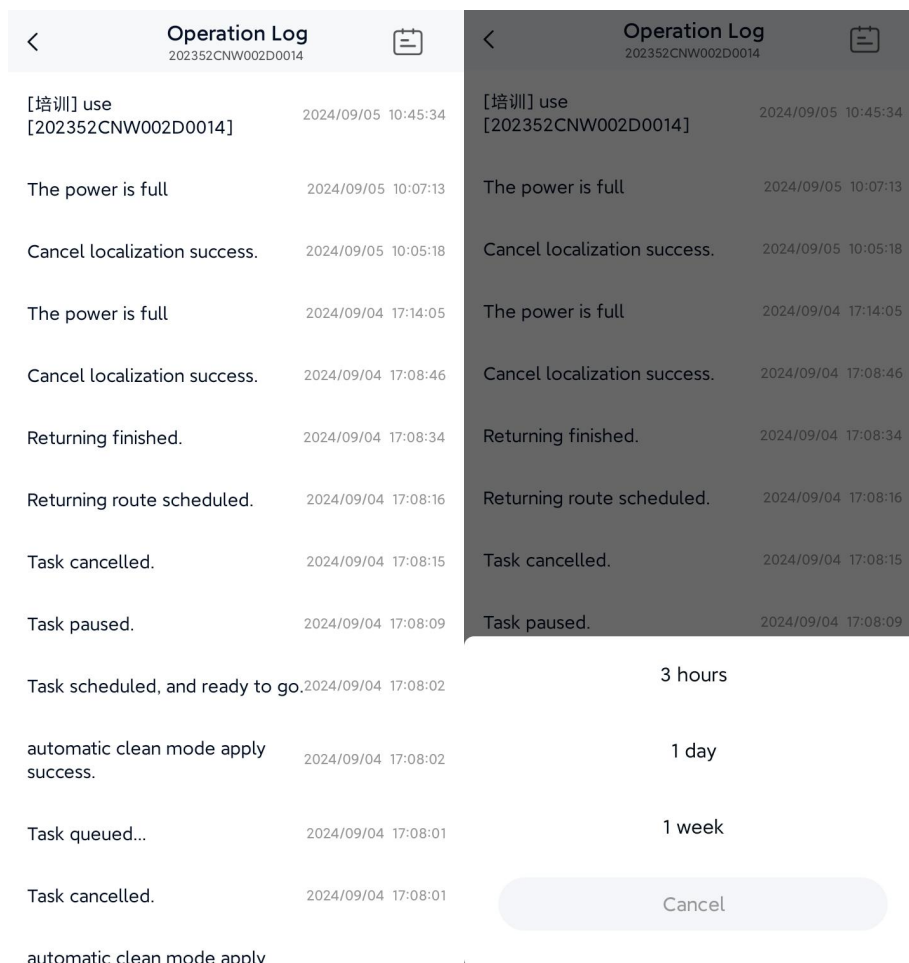
3.5. Device Information

Administrators can click on the image of a single device in the list on the Show devices page, or in the device detail page click ⋮ and then [My Device] in the pop-up window to navigate to the device information page. This page displays detailed information about the device, as shown in the image below:

The page presents the current device's basic information, including basic information, total data, software and hardware information.

(1) Basic Information: Includes the robot's image, current system version number, robot name, and device SN code. The robot name can be modified.

(2) Total Data: Shows the historical total cleaning data of the robot, including cleaning times, cleaning time, and cleaning area.

(3) Software: Shows the current software information of the robot's subsystems.

(4) Hardware: Shows the current hardware information of the robot.

4. Other Notifications
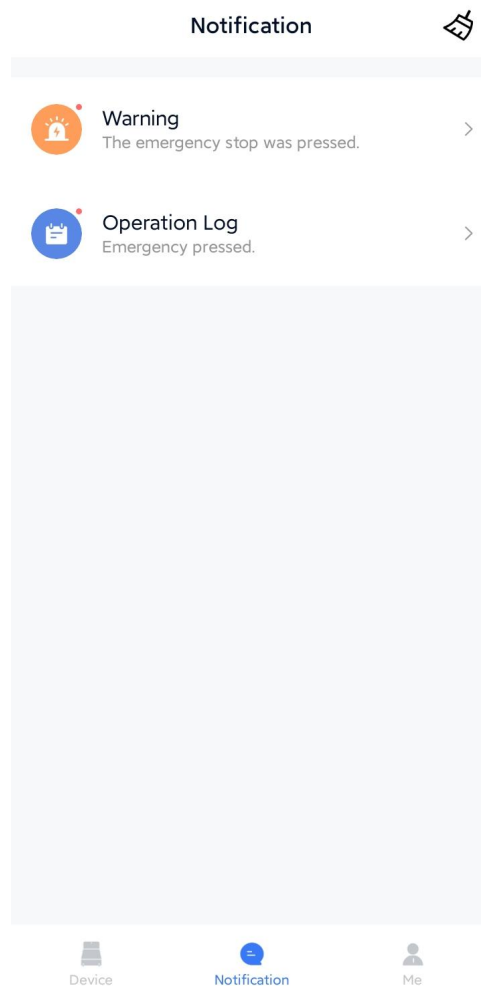
In addition to accessing warnings and operation logs through the [Notification] button in the device section, you can also go to the notification page via the bottom tab of the app to view all notifications, including warnings, operation log, and system notifications.

4.1.Warning

You can view the warnings for all devices you are associated with through [Notification - Warning].

This page displays a list of warnings for individual devices within the same project.

The list shows the most recent warning for each device and the current number of warnings. Unread notification counts are indicated by numbers in red circle.

Device information in the list includes: device name, latest warning content, latest warning time, and unread count.

Clicking on a device item will navigate you to the notification detail page. For specifics, refer to section *3.4.1. Warning*.

4.2.Operation Log

Through [Notification - Operation Log], you can access the operation log list, where you can view the operation logs for all devices you are associated with. Clicking on a device item will navigate you to the device's operation log detail page. For specifics, refer to section 3.*4.2. Operation Log*.

4.3.System Notifications

Clicking [Notification - System Notifications] will navigate you to the system notification list page.

For administrators, system notifications include information about regular users' robot usage or organization membership reviews, with options to approve or reject.

For regular users, system notifications provide the result of whether their application has been approved.

5. Maps

Click the [Maps] button in the Device page to access the map management page, as shown below.
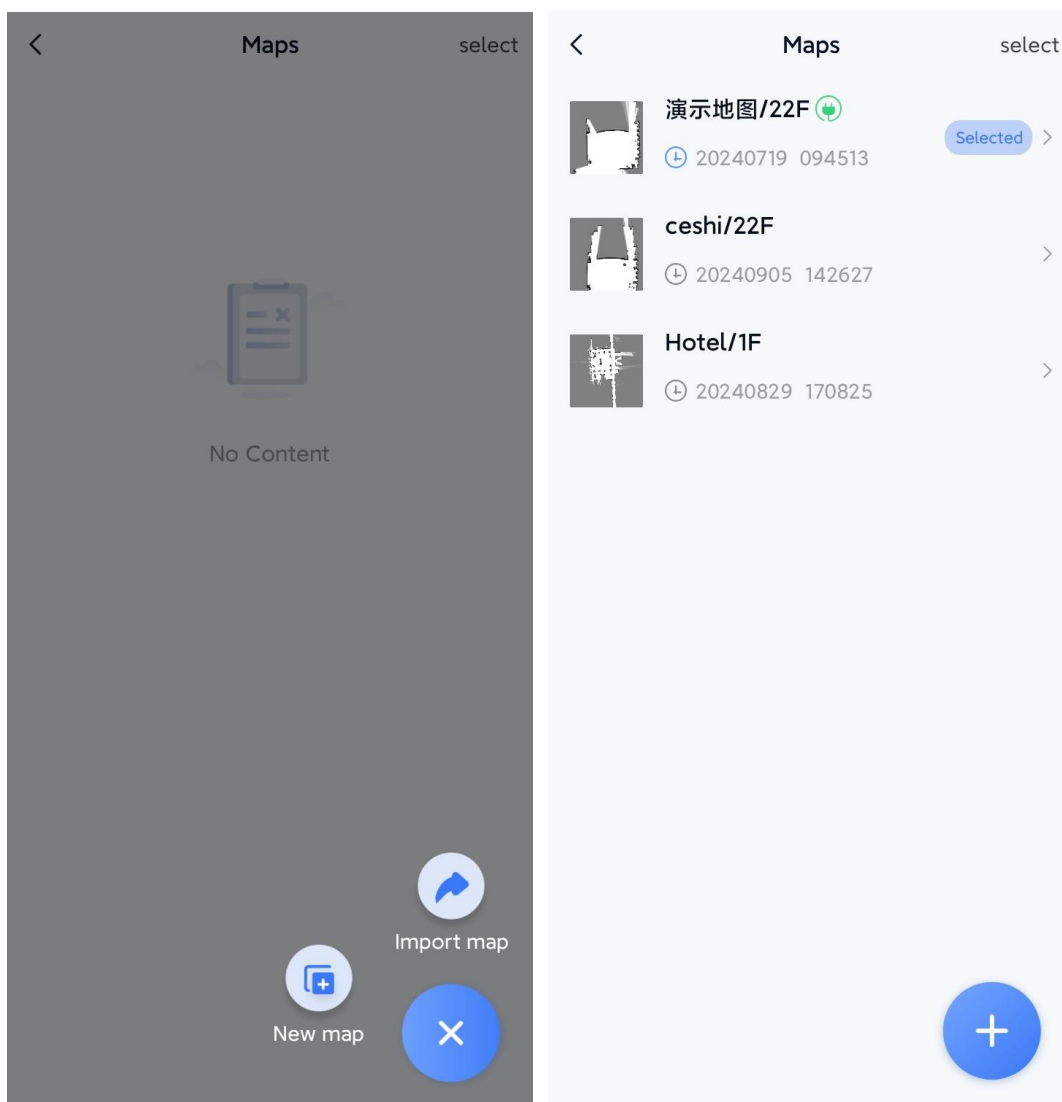
5.1. Maps

The map management page lists all maps associated with the current robot. You can click the thumbnail on the left side of each map item to quickly preview the target map or click on the map item to view detailed properties and layer information of the map. If this is your first time using the robot and no maps have been created or

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imported, the Maps page will be empty, and you will need to create a map or import one from the cloud to view map information.

Clicking on a single map in the list will take you to the map editing page.

Long press a map item to enable the selection mode for deleting one or multiple maps, as shown below.
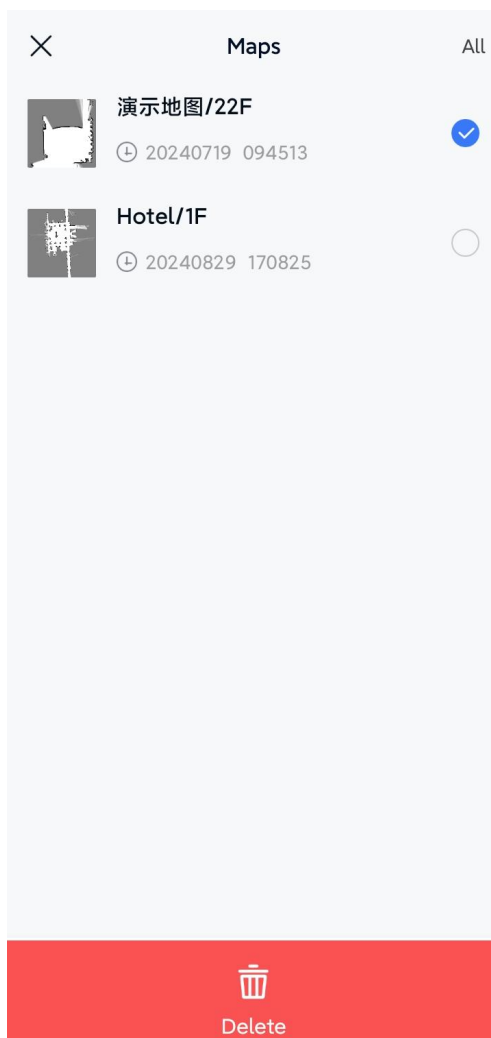
5.1.1. New Map

On the bottom right of the Map Management page, click the [+] button to bring up options for [New map] and [Import map]. Click the [New map] button to enter the page for creating a new map:
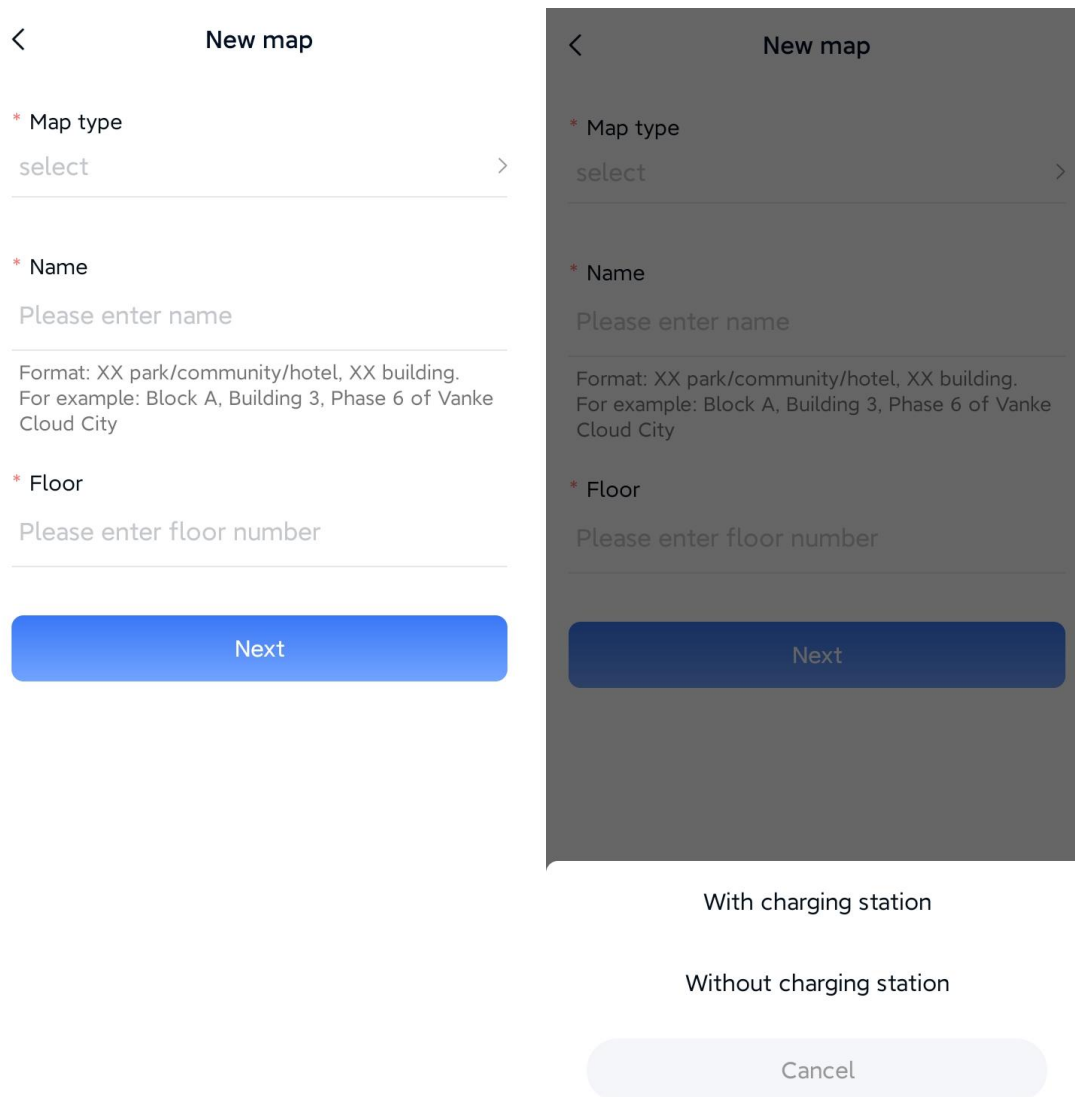
1.   Enter a valid map name, the floor number, and choose the map type on the new map page. Then click [Start Recording] to begin mapping.

2.   The map types include "With charging station" and "Without charging station" For "With charging station", you must move the robot in front of the charging station before starting to create the map.

3.   Creating a new map requires the robot to be in remote control mode. When you click [Start Recording], if the system detects that the remote controller or App remote control mode is not activated, a prompt will appear: "Please turn on Remote Controlling Mode through APP or Remote Controller." In this case:

(1) Manually activate the physical remote controller and switch to remote control

mode. Click [Turn on Remote Controller] again, and the system will check whether the robot has been switched to remote control mode. If so, it will enter the map recording page.

(2) If using the app for remote control, click [Turn on APP Controller] to automatically enter the map recording page, where remote control tools will appear at the bottom.

4. When the robot is in remote control mode, click [Start Recording]. If there is an ongoing cleaning task, a prompt will appear: "After start recording, ongoing task will be terminated". Click [Confirm] in the prompt to proceed to the map recording page.
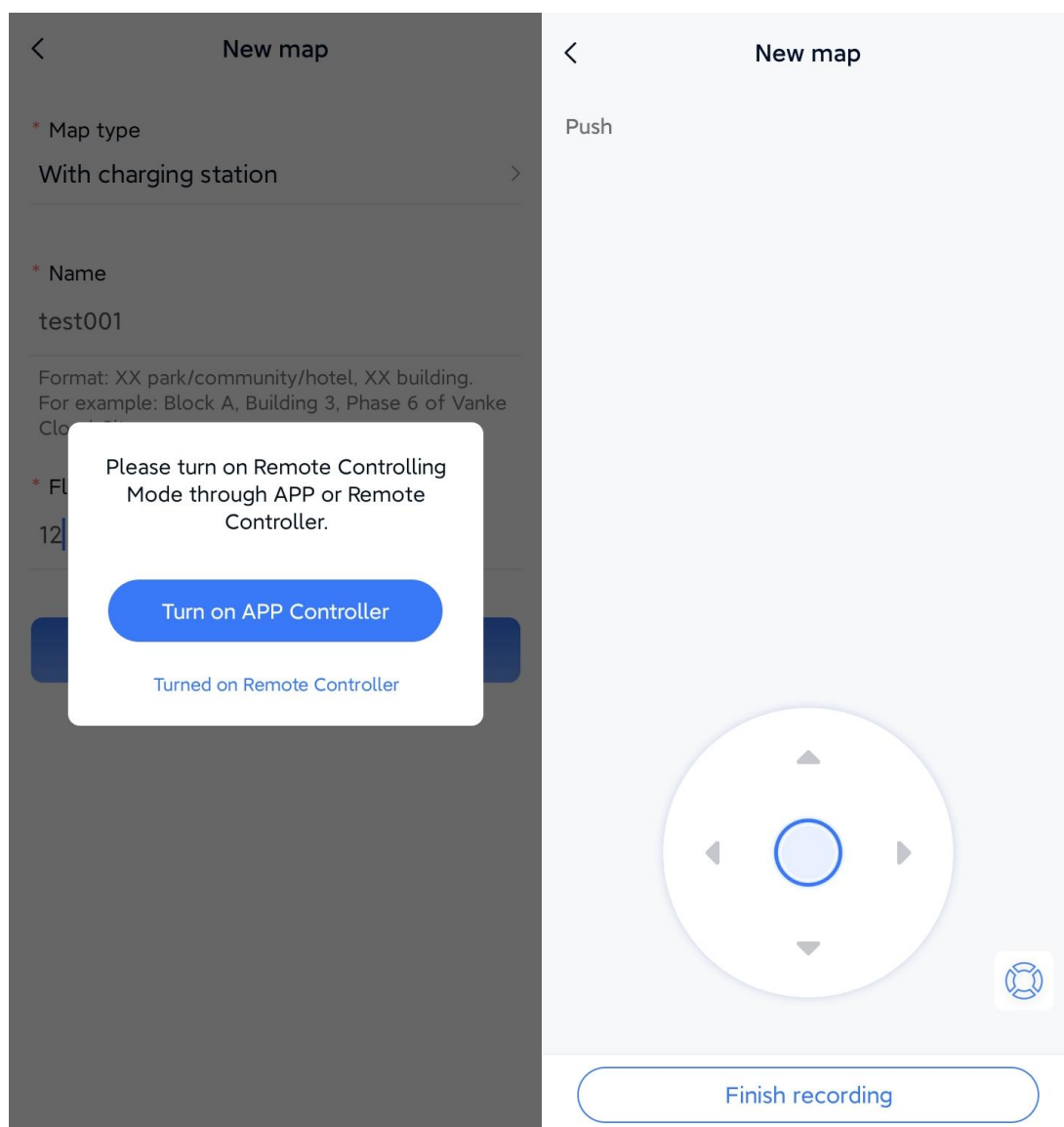
5. After starting recording, the onboarding interface will display a 3-second message: "Recording has started. Please make sure that the recording end point and starting point can form a closed loop."

6. If the robot switches from remote control mode to automatic mode during recording, a long prompt will appear: "Unable to move recording, please switch to remote control." After switching the robot back to remote control mode, you can cancel the long prompt by clicking.

7. After completing the map recording using the remote controller or App, click [Finish recording]. Once the map updates, the newly recorded map will be saved in the map list.

8. After completion, you can use the map editing function to refine the new map (setting Forbidden Areas, Slope Areas, and Charging points/ Lift points/ Lift entryway).

Note:

(1) When creating a map with charging station, please try to move the robot to 0.5 to 1 meter in front of the charging station before starting the mapping.

(2) During "Mapping with charging station", the robot will detect the location of the charging station and generate the charging station before starting the map recording. If the robot does not detect the charging station, a prompt will indicate: "Please move the robot to the front of the charging station to start mapping." At this point, reposition the robot and then click [Start Recording].

5.1.2.   Importing Maps

Click the [+] button at the bottom right of the map page. In the options that pop up, select [Import map] to enter the map import page, as shown below:
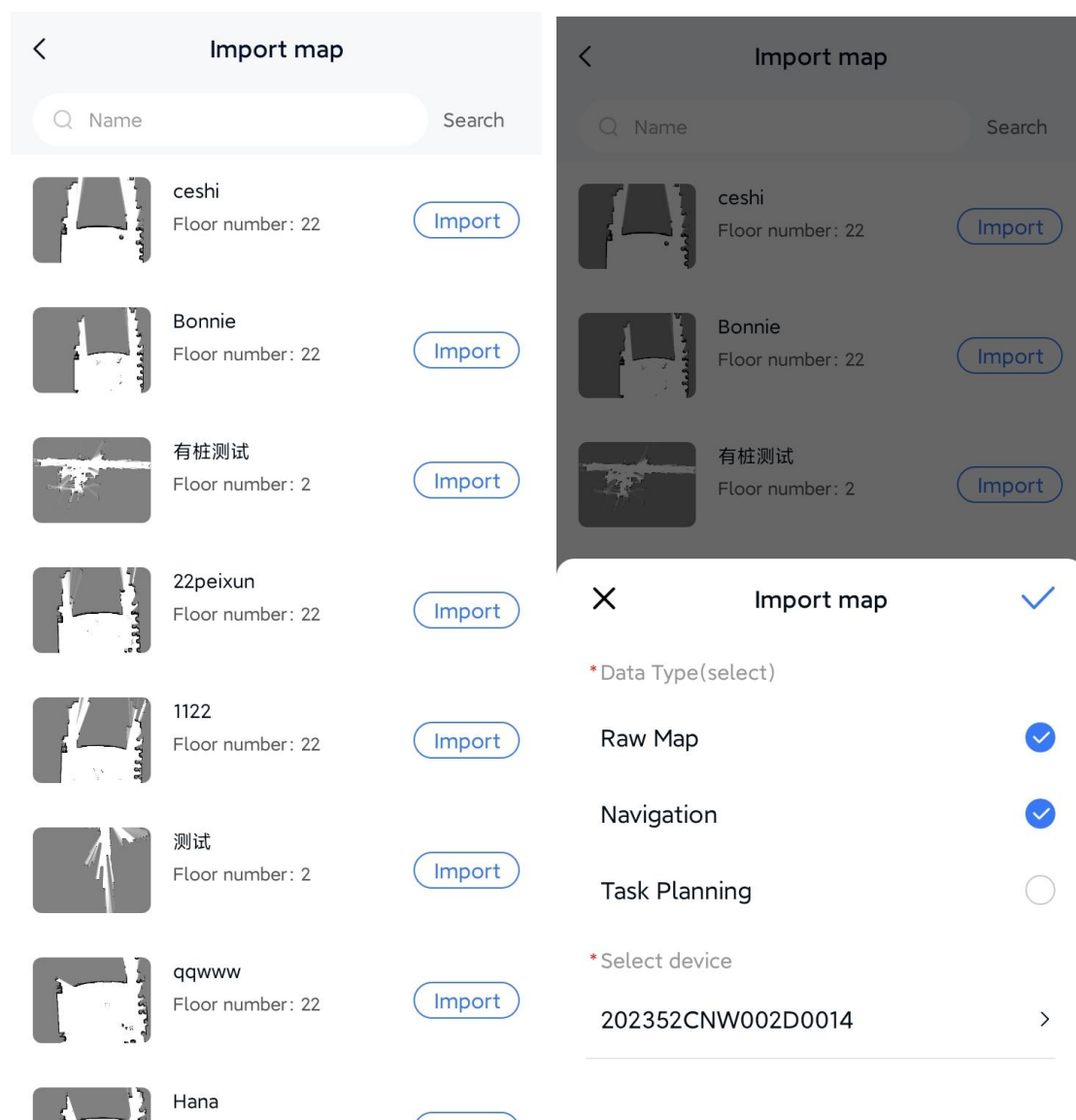
1. On the map import page, you can view all the maps associated with the device's project in the map list. These maps were created and updated by all device in the project.

2. Click on the map thumbnail in the list to quickly preview the target map.

3. Click the [Import] button on the right side of the map in the list to open the map import pop-up window. Here, you can select the type of map data to import, including Raw Map, Navigation, and Task Planning, as well as the device that generated the data.

4. Click on a map to view the details of the added map on the detail page, as shown below. The interface displays a preview of the map, and you can choose to

view navigation maps (layer and point) and task plannings from different devices.
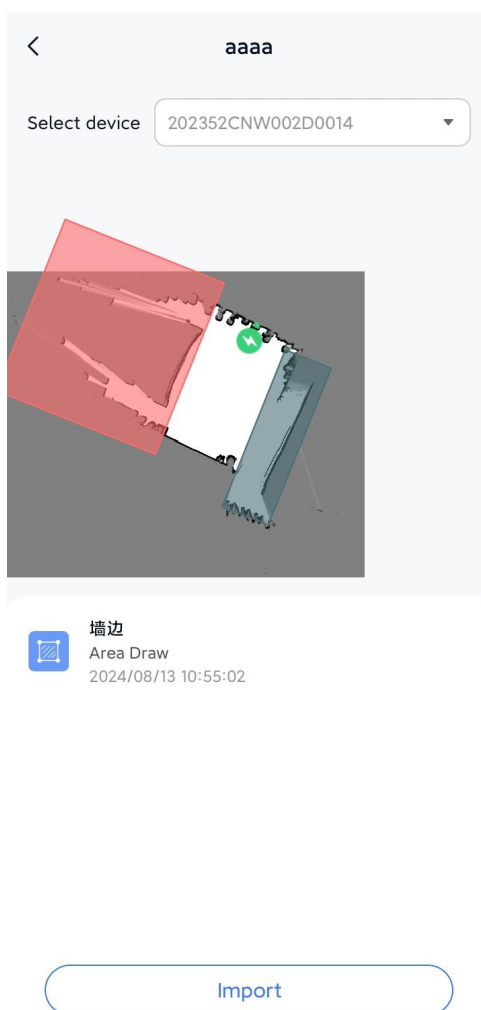
Note:

Map resources within the same organization are created and shared by all devices within that organization. Any maps you create will be automatically updated to the organization's project when connected to the network. Other devices in the same project can use the Import function to add shared map resources, including Raw Maps, Navigation maps (layer/point), and task planning data, into the robot's local storage, generating a new copy of the map resources.

At the same time, the added map can also be removed. Removing the map will only delete the local map data on the current device and will not delete the cloud map data.

5.1.3. Editing Maps

Click on a map item on the map management page to enter the map editing page.
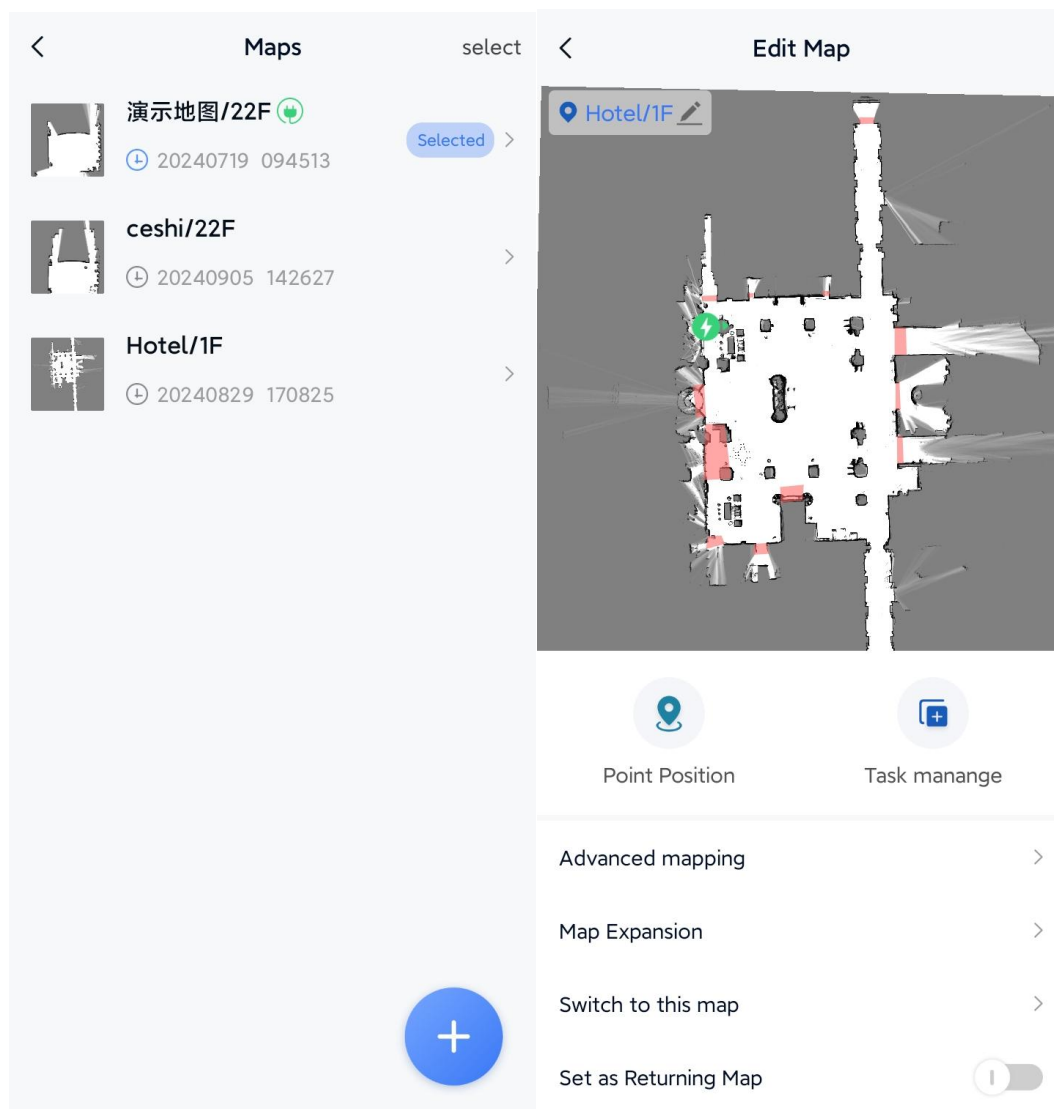
This page includes the map and map editing tools.

Click on a map item on the map management page to enter the map editing page. This page includes the map and map editing tools. You can perform advanced mapping (original area editing), point position, task management, renaming, map expansion, mapping, and setting as returning map.

1. Advanced mapping, point marking, and task management will be introduced

one by one later in the corresponding modules.

2. Renaming: You can reset the name of the current map.

3. Set as returning map: The returning map requires a charging station; if there is no charging station, it cannot be set as the returning map. After the returning map is successfully set, the robot will automatically follow the return route based on the map settings.

Note：

If a user is editing the same map online under the same organization, other users cannot edit or use that map.

5.1.3.1. Point Position

Click the [Point Position] button in the map editing pop-up window to enter the point position page, where you can set special points on the map, including Charging point, Water point, Lift Point and Lift Entryway.
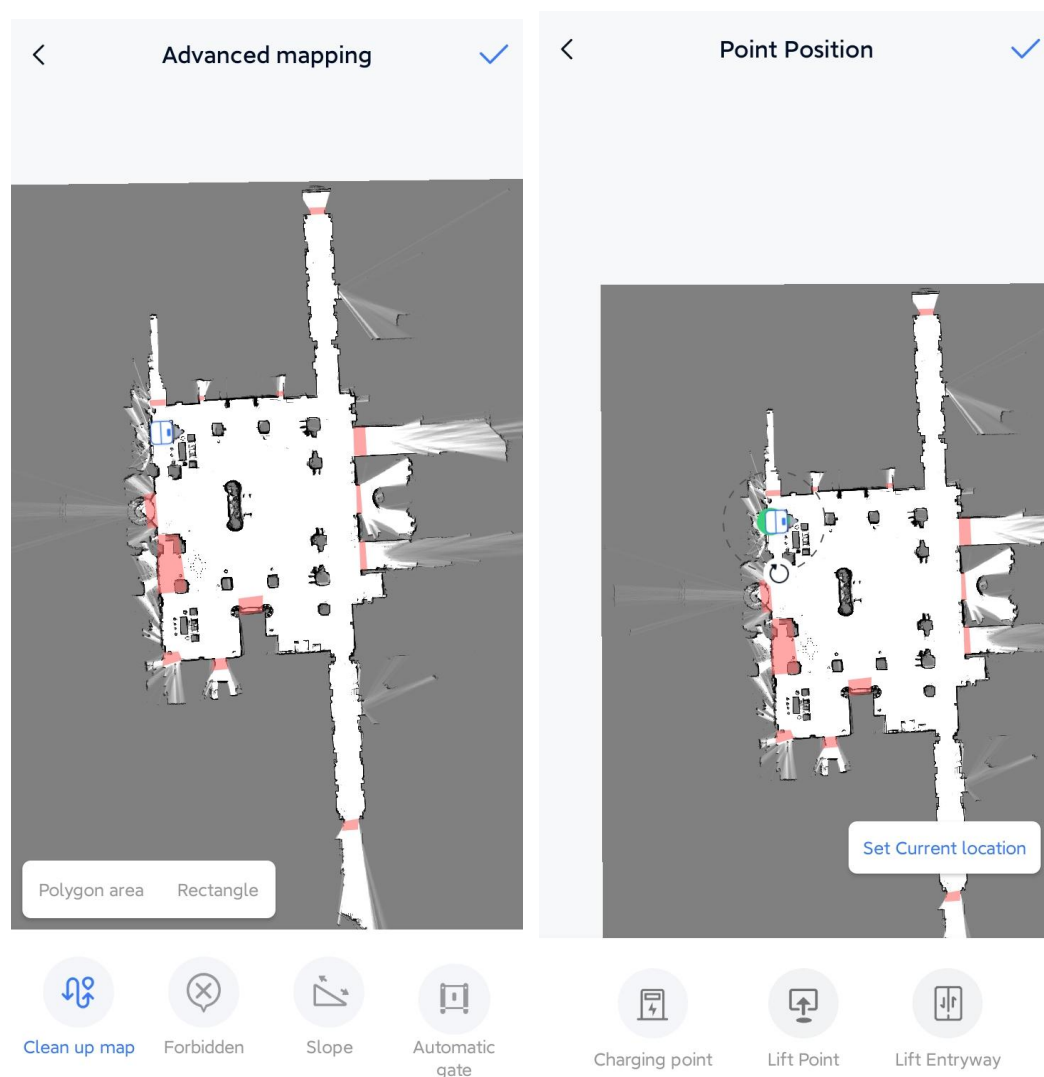
After entering the page, a point marking pop-up window will appear. The pop-up window includes buttons for three types of marking points: [Charging Point], [Lift Point], and [Lift Entryway]. Additionally, the [Set Current Location] button will be displayed at the bottom right of the page. The map and the robot's position will be displayed in the content area of the page.

Click the button of any of the marking point to add a target marking point at the center of the interface;

1. The added marking point will be in edit mode, with [Rotate] and [×] buttons nearby, which you can use to rotate or delete the point;

2. Drag the point to move it to another location;

3. Click on a blank area outside the point's edit range to exit edit mode;

4. When editing Lift point and Lift Entryway, an lift selection pop-up will appear at the bottom of the page. Multiple lift can be bound to a lift point, but only one can be bound to a lift entryway.

5. Each map should have only one charging point. If a charging point already exists, clicking [Charging Point] will prompt "Charging point is on the current map. Confirm to replace it?" If confirmed, it will enter point editing. After saving successfully, the charging point's position will be updated. If you cancel and exit editing, the newly added or edited charging point will not be saved.

6. When you click [Set Current Location] the marking point will jump to the robot's location. If the robot is not on the map or cannot obtain its position, it will prompt "Unable to get robot location," and the marking point will remain in its original position.

7. Click the [√] button on the top right of the navigation bar to save all added or edited marking points. If you click the [×] button on the top left of the navigation bar, the interface will prompt "Current editing unsaved, continue to quit?" If you choose [Confirm], the newly added or edited marking points will not be saved, and the interface will exit to the map management page.

Tips:

➢   The charging point should be set in the direction facing the charging station, within a range of 0.5 m to 1 m in front of the station, and without any obstacles within this range.

➢   The lift point should be set near the lift door on the map, and list entryway should be set at the center of the lift on the map, with the direction facing the lift door.

5.1.3.2. Advanced Mapping (Area Editing)

After the map recording, the robot's algorithm will automatically avoid walls and obstacles detected during the recording. With advanced mapping, you can set special

areas on the map, including clean up map, forbidden area, and slope area.

1. Clean up map: An area where the robot can pass through and clean. Obstacles detected during the map recording can be covered by setting an accessible area.

2. Forbidden area: An area where the robot is prohibited from entering. If an automatic cleaning area includes a forbidden area, this area will be excluded during planning.

3. Slope area: An area where the robot moves slowly. If an automatic cleaning area includes a slope, the robot can still clean after entering the slope area, but the speed needs to be reduced to a safe level (the safe speed needs to be verified).

Click the [Area Settings] button in the map editing pop-up window to enter the area settings page, as shown below. The bottom toolbar has buttons for three types of areas: [Clean up map], [Forbidden area], and [Slope area].
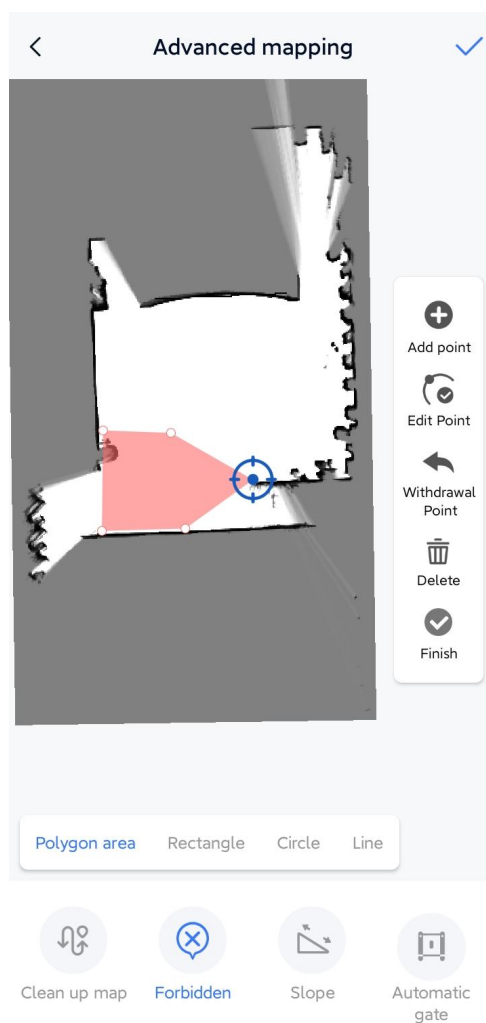
When you select the area type from the bottom toolbar, a drawing tool of corresponding area type will appear above the toolbar, including polygon, rectangle, circle, and line. After selecting the area type and drawing tool, you can start drawing shapes to add new areas.

1.Polygon

(1) Select [Polygon area], then a center point will appear in the middle of the interface, and the page's right side will display the add-tool button. Now you can start adding a polygon area.

(2) Drag or scale the map to move the center point to a corner of the polygon area that need to be added, and click the [Add point] button to add the first point.

(3) Drag or zoom the map again to move the center point to the second corner of the polygon, and click the [Add Point] button to add the second point. A line will form between the first and second points. Repeat this operation to add multiple points, and the lines will form a shape.

(4) Click the [Withdrawal Point] button to cancel the last added point.

(5) Click [Complete] to finish adding or editing the current shape. You can add multiple area shapes by repeating the above steps.

(6) When editing a polygon, click the [Delete] button to delete the currently edited shape.

(7) When editing a polygon, click the [Edit Point] button to enter point-editing mode. All points on the shape will be displayed, and blue auxiliary points (virtual points) will appear in the joints of lines.

The point will turn into a solid red dot after being selected, and you can drag it to adjust its position, thus adjusting the shape of the polygon.

For multiple polygons, when you select another polygon and then click the [Edit Point] button, the selected polygon will also enter point-editing mode.
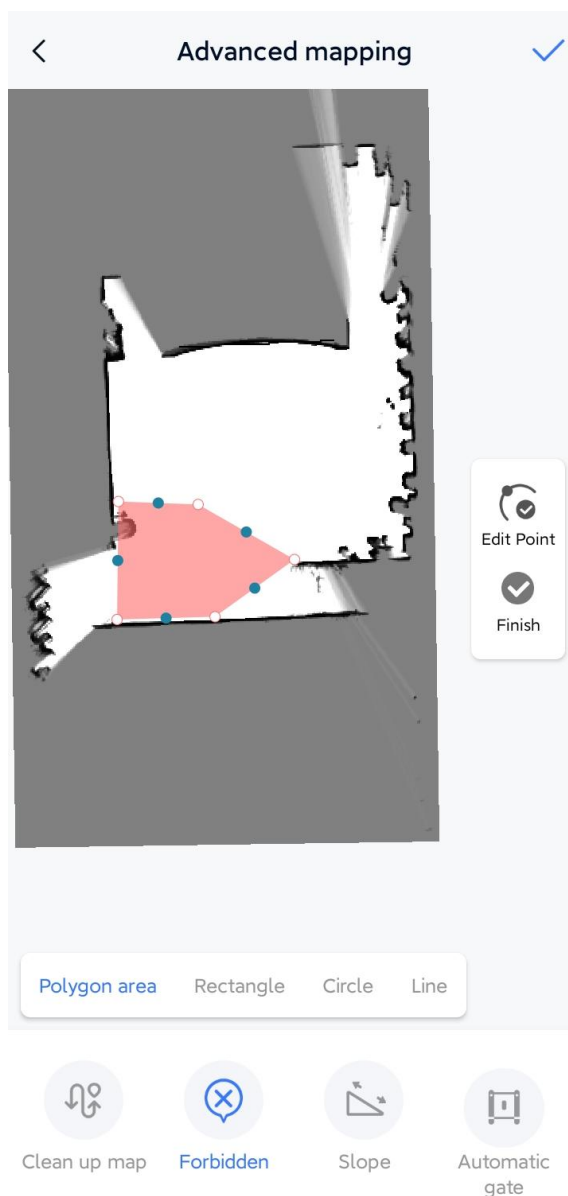
2. Rectangle

Select [Rectangle], and a square area will be directly added to the map, with [Rotate], [×] and [Scale] buttons nearby, which you can use to rotate, delete or resize the area;

3. Circle

Select [Circle], and a circle area will be added to the map, with [Rotate], [×] and [Scale] buttons nearby, which you can use to rotate, delete or resize the area;

4. Line

The line tool is only available for editing forbidden areas. The line tool is primarily used to supplement walls not detected during the map recording.

(1) Select [Line], and a center point will appear in the middle of the interface. The add-tool button will be displayed on the right side of the page. Now you can start adding the line.

(2) Drag or scale the map to move the center point to the corner of the line area what should be added, and click the [Add Point] button to add the first point.

(3) Drag or zoom the map again to move the center point to the second point of the line area, and click the [Add Point] button to add the second point. A line will form between the first and second points. Repeat this operation to add multiple points and form the line.

After completing all edits, click the [√] button on the top right of the navigation bar to save all added or edited areas. If you click the [×] button on the top left of the navigation bar, the interface will prompt "Current editing unsaved, continue to quit?" If you choose [Confirm], the newly added or edited areas will not be saved, and the interface will exit to the map management page.

5.1.3.3. Map Renaming
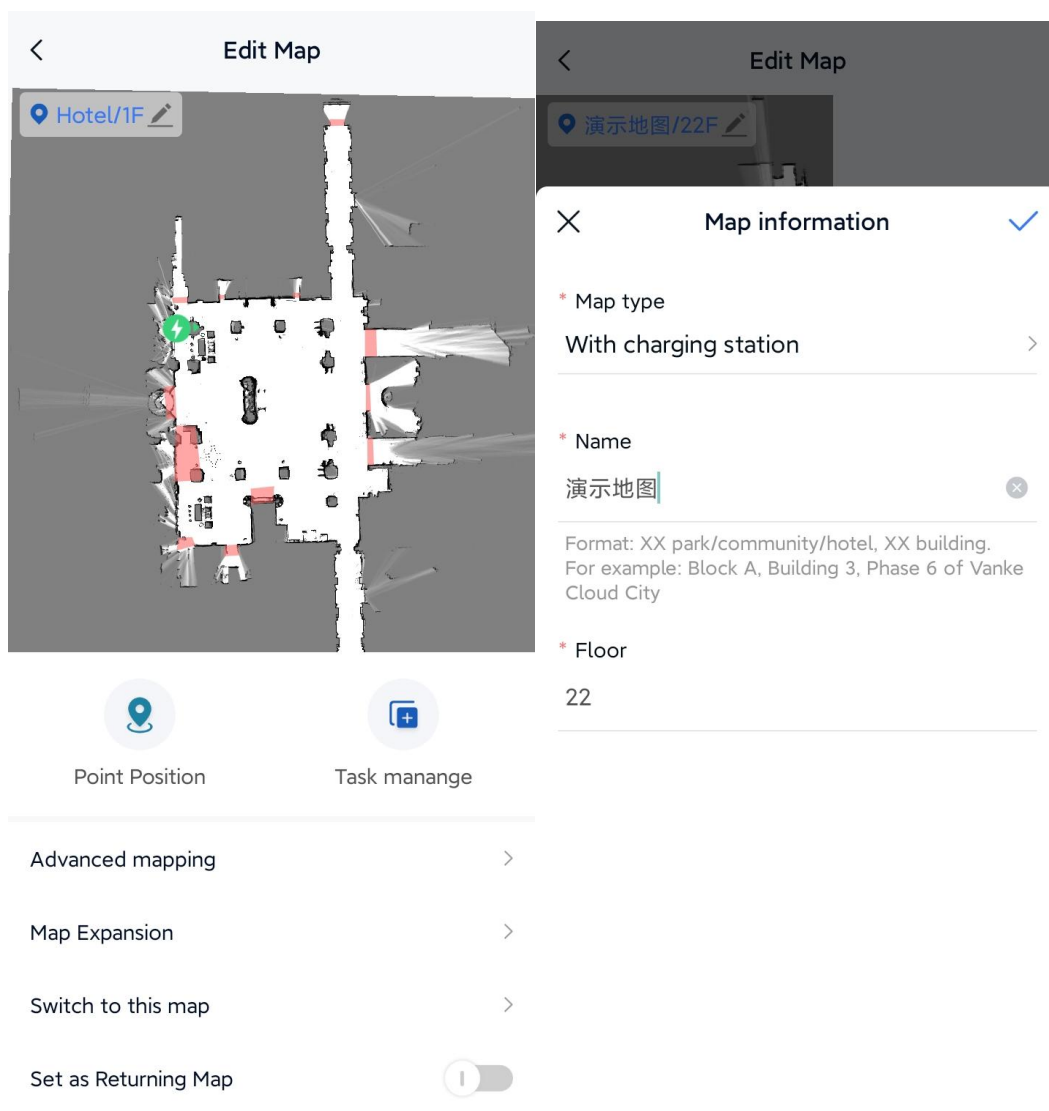
Click the [Edit] button ✎ next to the map name at the top of the map editing page. A Map information box will pop up in the center of the interface, allowing you to modify the map name and map floor. Click the [Save] button to save the changes.

5.1.3.4. Setting as Returning Map

If a map with charging station is selected, it can be set as returning map by clicking the [Set as Returning Map] button in the map editing pop-up window. (if the current map has already been set as a returning map, the [Set as Returning Map]

button will be inactive).

Note:

If a returning map is not set or the robot cannot reach the returning map after completing a task, it will default to returning to the charging point on the current map.

5.1.4. Map Tools
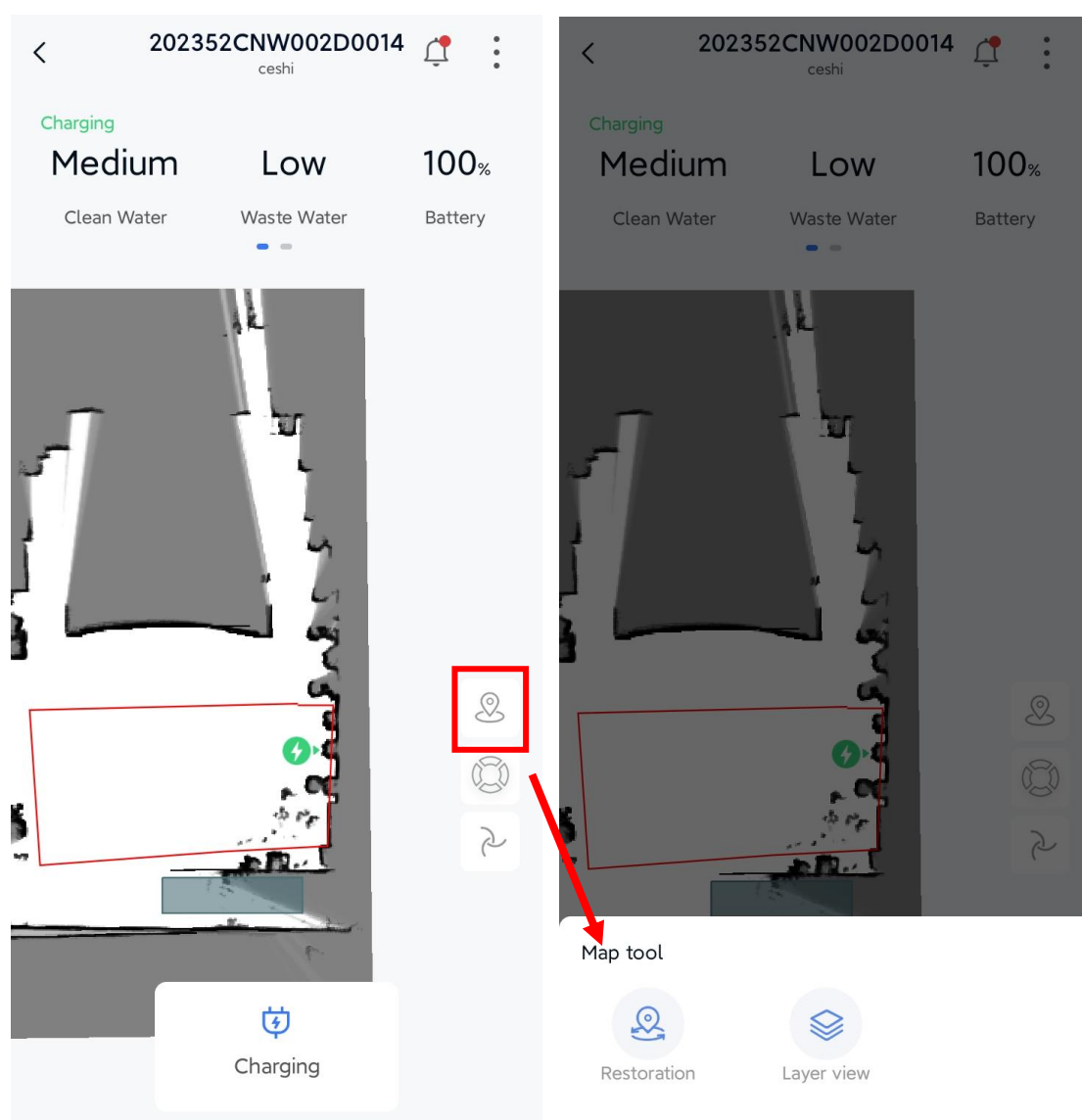
Click the [Map Tool] button at the bottom right of the current device page to open the map tool selection box. Select any map tool button from the box to perform the

corresponding function:

1. [Restoration] Button – Clicking this button will reset the current map that has been rotated or zoomed to its default state.

2. [Layer view] Button – Clicking this button will open the layer display selection box. In the selection box, click on the layer elements you want to display, and the selected elements will be shown on the map, as shown below.
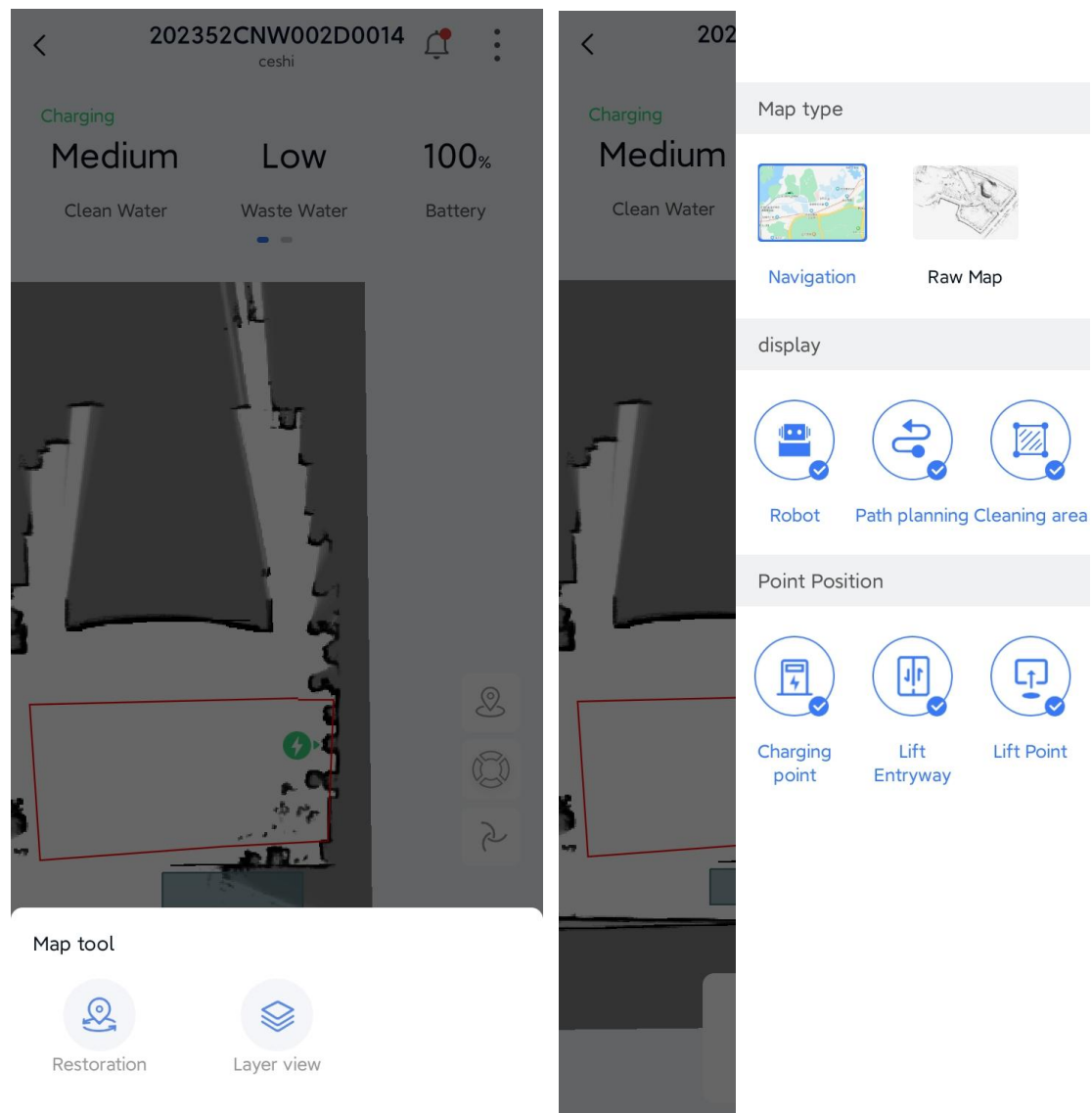
5.1.5.   Deleting Map
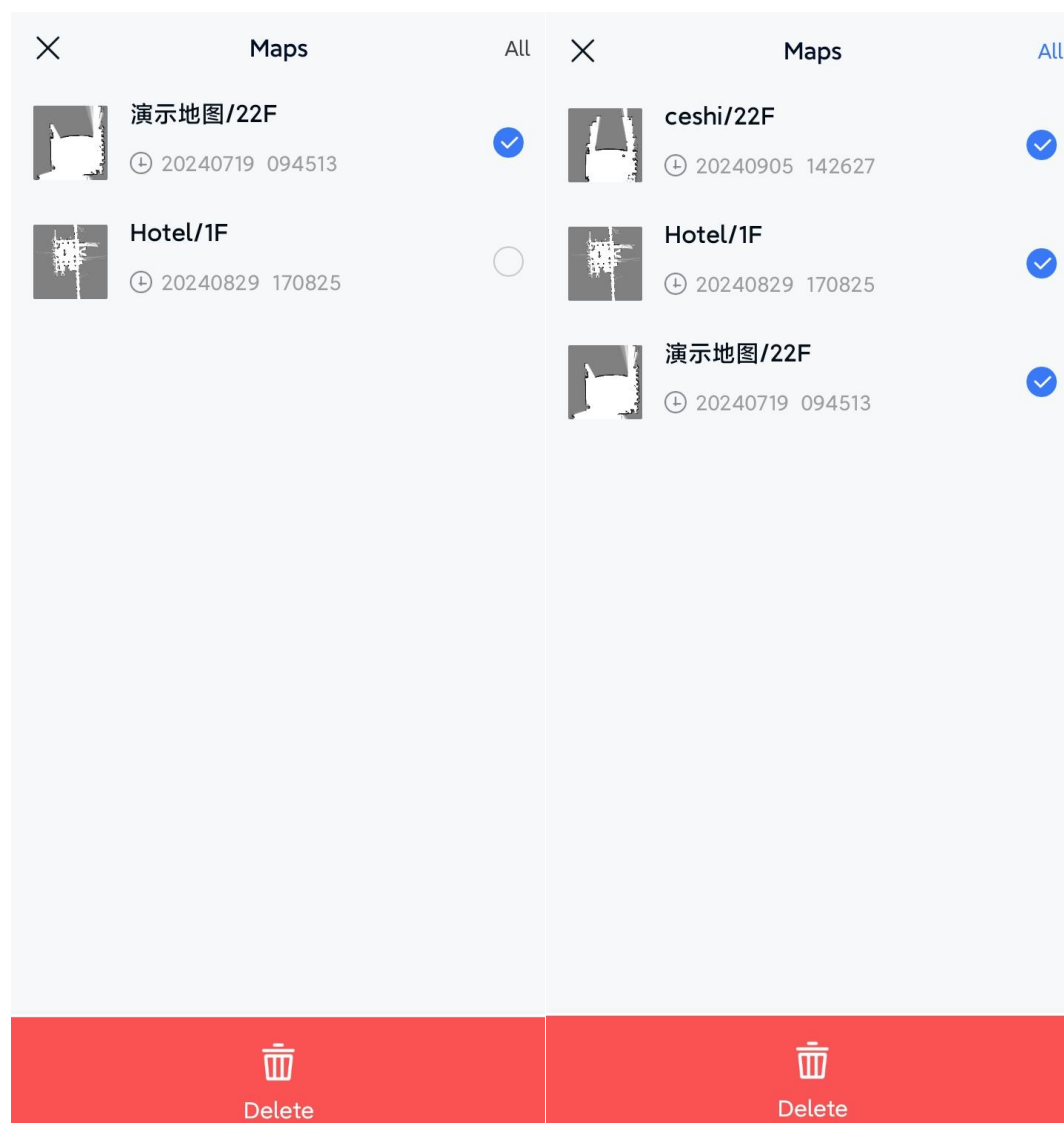
On the map management page, long press the target map item. A selection button will appear on the right side of the map list, and the target map item will be selected by default. You can select or multiple maps and the [All] button is on the top of the page. After selecting the maps you want to delete, click the [Delete] button, and a secondary prompt box saying "Confirm to delete selected maps?" will pop up. Click the [Confirm] button in the prompt box to delete the target map from the device. Click the [×] button at the top left to cancel the deletion state of the map list.

5.2.Planning Management

On the map editing page, click the [Task manage] button on the target map to navigate to the planning management page for that map, as shown below. The lower part of the page lists all the cleaning areas or routes that have been divided on the map, while the upper part of the page visually displays the target map.

On the planning management page, you can click on a planning item in the list to view it, and the map will display the corresponding plan. You can also edit the plan (delete/edit/rename).

In the planning management page, you can deliver an immediate cleaning tasks, which will be introduced in the corresponding module later.

5.2.1. Creating and Editing Plannings

You can create and edit plannings to generate the cleaning routes or areas for the robot on the map.

Click [Maps - select map - Planning management] to enter the planning management page. Then click the [+] button at the top right of the page to enter the new planning page, as shown below.
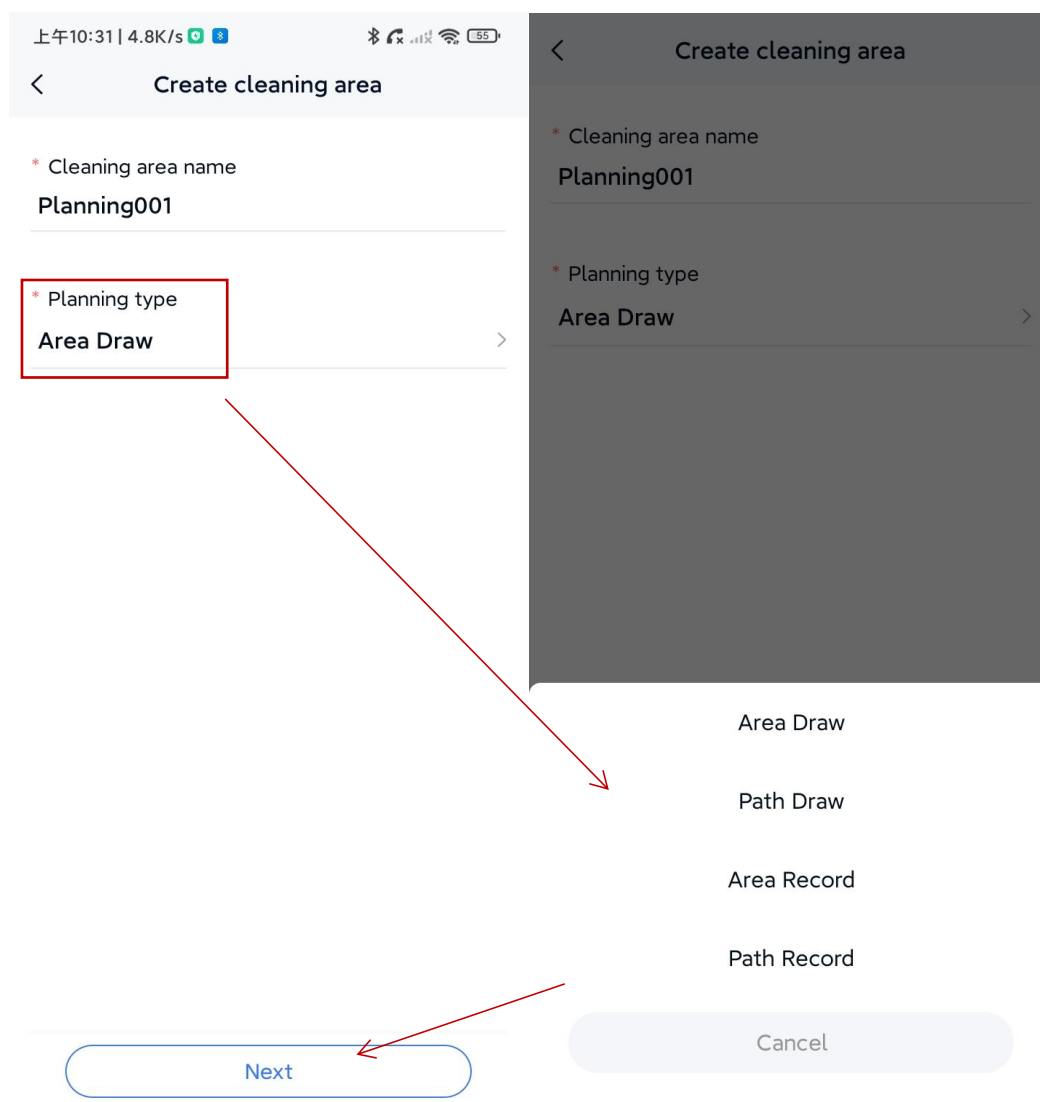
1. To create a new planning, you need to enter the cleaning area name and select the planning type first.

2. In the type selection, click the dropdown menu to choose a planning type,

which include Path Draw, Path Record, Area Draw and Area Record. Each planning type corresponds to different editing methods:

1) Path Draw includes drawing waypoint and editing virtual walls.

2) Path Record includes recording waypoint and editing virtual walls.

3) Area Draw includes drawing areas and editing virtual walls.

4) Area Record includes recording areas and editing virtual walls.

3. After entering the planning name and selecting the planning type, click the [Next] button at the bottom to proceed to the new planning page for adding the planning.

5.2.1.1. Area Drawing

You can draw a cleaning area by drawing [Area] and [Virtual Wall] on the map. Connecting multiple points to form the area that the robot needs to clean. After marking a virtual wall, the robot will avoid obstacles and will not run into areas marked as virtual walls during the cleaning task.

In the route drawing page, you can edit areas and virtual walls with the [Area] and [Virtual Wall] buttons at the bottom toolbar.

1. Area

1) Click the [Area] button, and a toolbar of creating new areas will pop up at the bottom of the page, including [Add Point] and [Delete].

2) The interface will automatically generate a shape covering the entire map. You can adjust the shape by selecting a point on the shape and dragging it.

3) Alternatively, you can drag or zoom the map to move the central point to the location where you want to add a point. Click the [Add Point] button to add multiple points to adjust the shape.

4) Clicking the [Delete] button will remove the last added point.

5) After point adding or editing, click the [√] button on the toolbar to finish adding the cleaning area.

6) Click the [√"]button on the right side of the top navigation bar to save the newly added planning directly.
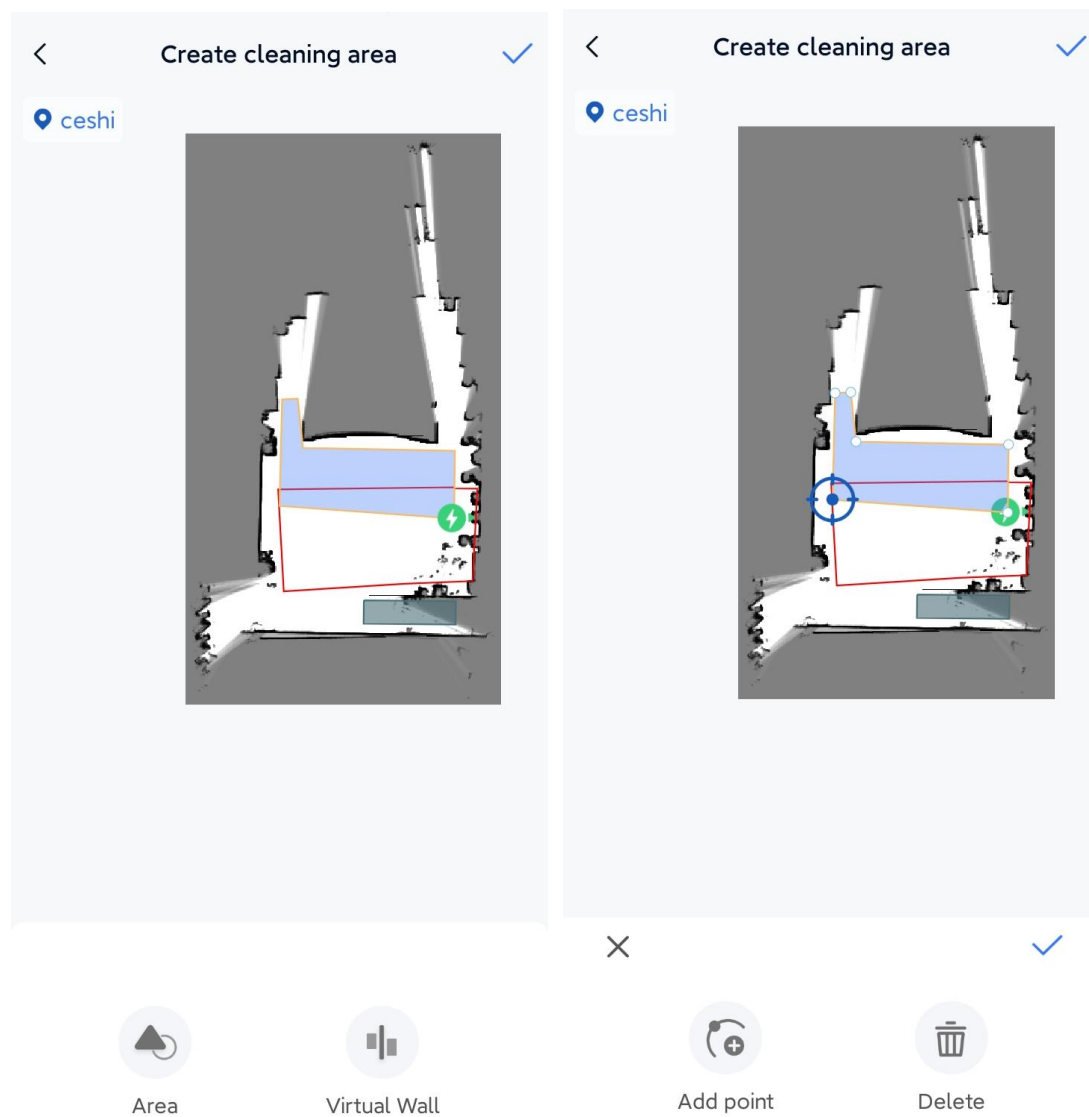
2. Virtual Wall

Click the [Virtual Wall] button, and a virtual wall of default length will be added to the center of the page, as shown below:

1) The virtual wall is editable.

2) Click the area within the virtual wall to drag and move it.

3) Click the [scale] button on the virtual wall to adjust its length.

4) Click the [×]button on the virtual wall to delete it.

5) Click the blank area outside the virtual wall to exit the editing state.

6) Repeat the second to fifth steps to add multiple virtual walls.
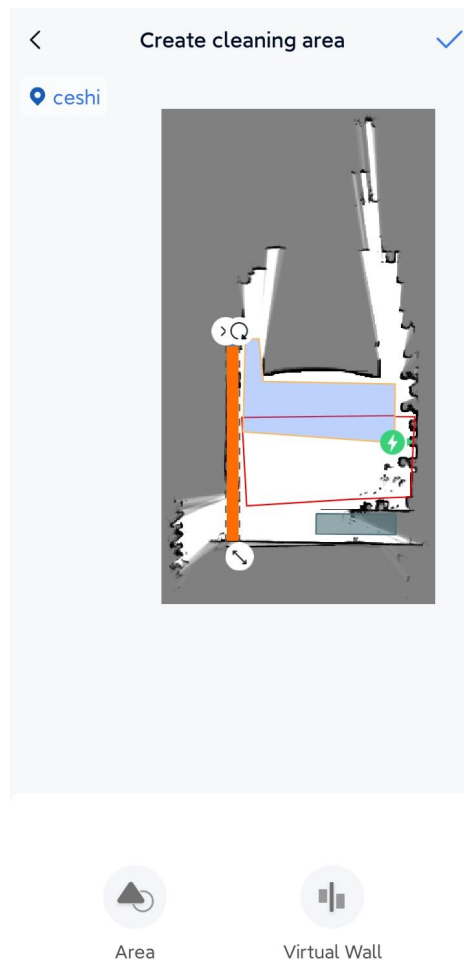
5.2.1.2. Path Draw

Refer to *section 5.2.1.1 Area Draw* for adding new [Waypoint] and [Virtual Wall].

Cleaning routes can be created by using the [Waypoint] and [Virtual Wall] tools in the toolbar on the route drawing page. By adding multiple waypoint on the map with [Waypoint] tool, the robot's cleaning route is formed by connecting these points.

After marking virtual walls, the robot will avoid obstacles and will not run into areas marked as virtual walls during the cleaning task.


5.2.1.3. Planning Recording

Area Record is similar to Area draw in terms of property editing and adding virtual walls. The difference is that recording areas is conducted by recording track points in remote control mode. Steps in details are as follows:

1. On the area recording page, the [Area] and [Virtual Wall] buttons are at the bottom toolbar. Click the [Area] button, and a [Minimum point spacing] input box and [Start Recording] button will pop up above the bottom toolbar. After entering the minimum point spacing, click the [Start Recording] button.
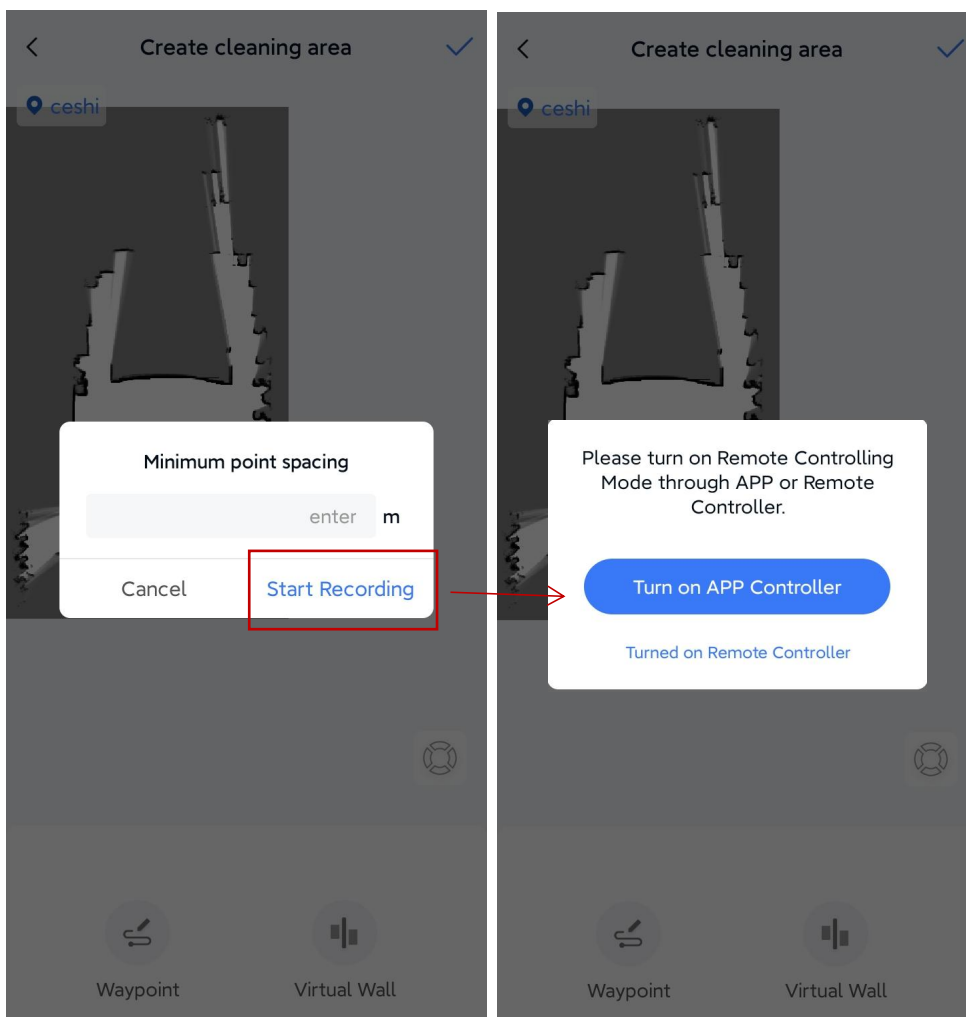
2. The area recording requires remote control mode and positioning. When you click the [Start Recording] button, the system will first determine whether the robot is currently positioned. If not, the system will automatically initialize position and obtain the robot's current position.

3. If the robot is positioned but not in remote control mode, a prompt box will appear saying "Please turn on Remote Controlling Mode through APP or Remote Controller." At this point: 1) If you click the [Turn on APP Controller] button, a remote control tool will pop up at the bottom of the interface. 2) If you turn on the physical remote controller, wait for the robot to switch to remote control mode before clicking [Turn on Remote Controller].

4. When the robot is in remote control mode, click the [Start Recording] button. If there is an ongoing cleaning task, a prompt box will appear, saying, "After start recording, ongoing task will be terminated." Clicking the [Confirm] button in the prompt box, and you will enter the map recording page.

5. After starting the recording, a prompt will appear for three seconds, indicating that the recording has begun.

6. If the robot switches from remote control mode to automatic mode during the recording , a long prompt will appear, saying, "Unable to move recording, please switch to remote control." Once the robot is switched back to remote control mode, you can cancel the long prompt.

7. As the robot moves under remote control, the system will generate corresponding points based on the set minimum point distance and connect them to form an area.

8. After completing the area recording using the remote controller or App, click the [Finish Recording] button. Once the planning is updated, you can add and edit virtual walls for the newly recorded route planning.

9. After editing the planning, click the [√] button at the top right of the page. Once the plan is generated, it will be saved in the planning list.

Note:

When recording areas, please ensure that the robot's path does not have intersecting lines. When saving the planning, the system will check whether there are intersecting lines. If so, you can edit the shape of the area by selecting and dragging or deleting points, before saving the planning again.

5.2.1.4. Path Record

Refer to *section 5.2.1.3 Area Record* for adding and editing [Waypoint] and [Virtual Wall].

After setting the minimum point distance, the robot in remote control mode will record waypoint and form a path. After completing the path record, virtual walls can be added and edited for the newly recorded route planning.

5.2.2. Deleting Plannings

On the planning management page, click the [Edit] button on the right side of a planning item in the list. An edit option will pop up at the bottom of the page. Select the [Delete] button, and a secondary prompt box will appear in the center of the page to confirm whether to delete the planning. Click the [Confirm] button in the prompt box to delete the planning.
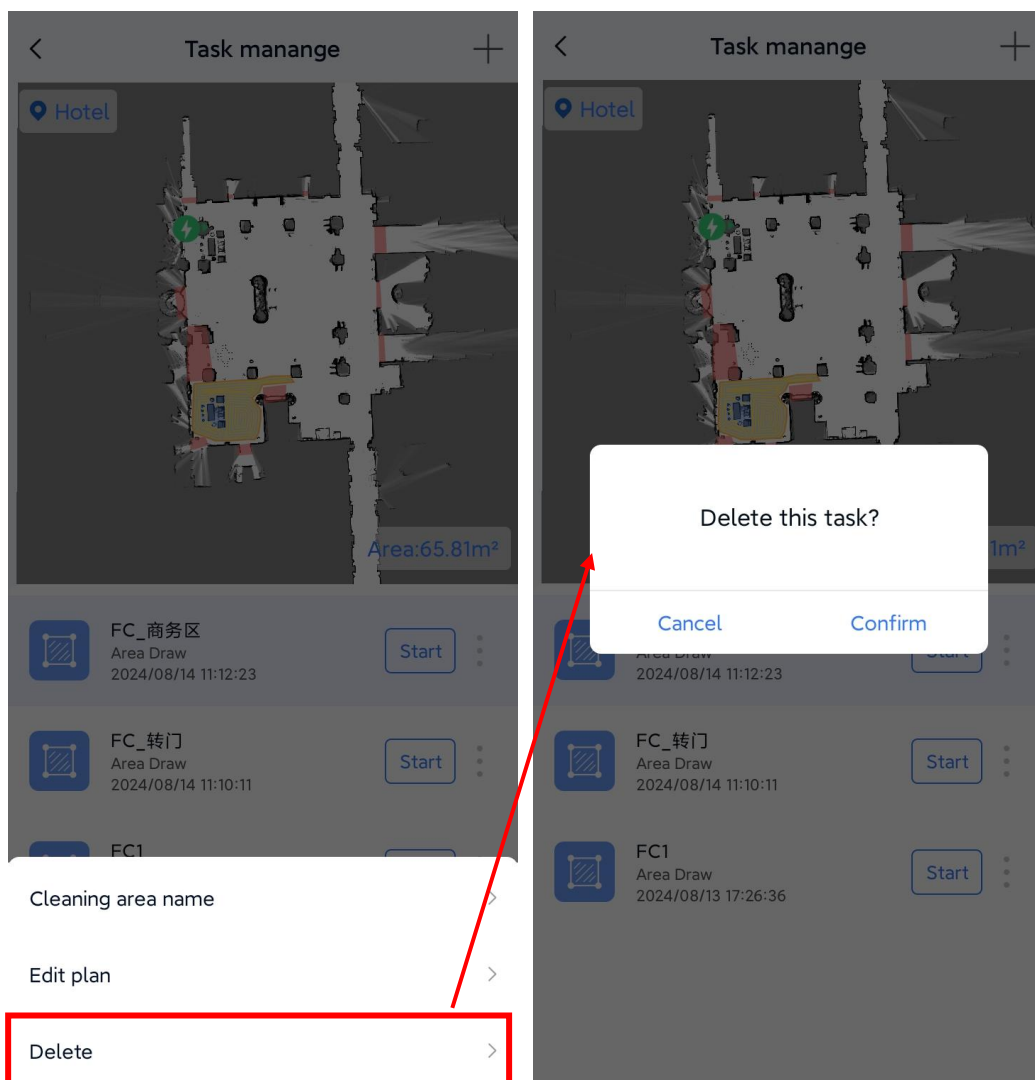
6. Task Scheduling

6.1. Task Management (Scheduled Cleaning)

On the homepage or in the [More] window of the device details, the administrator can click the [Tasks] button to enter the task management page, as shown below.
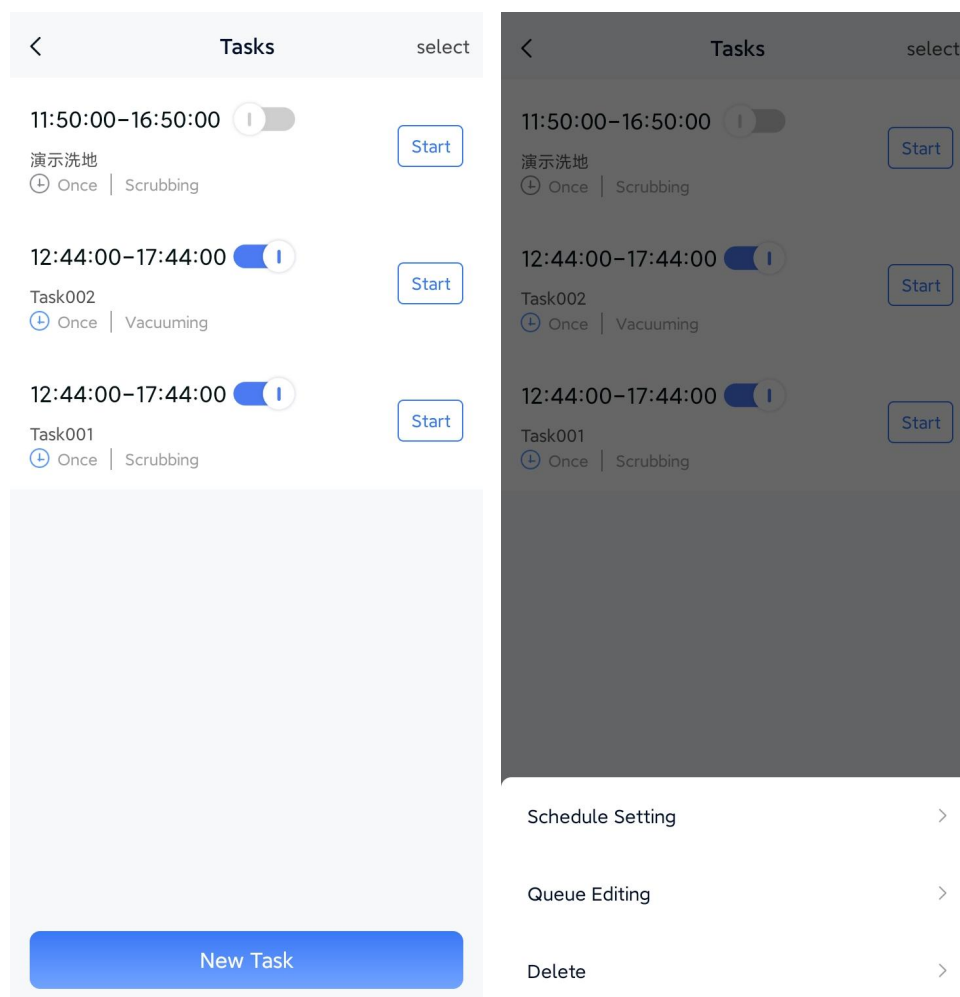
The Tasks page lists all cleaning tasks for the current device. You can scroll up and down to view the tasks. Each task includes the task name, executing time, number of executions, and cleaning mode. For individual tasks, you can perform the following actions:

1. Click on a specific task to bring up various operation options at the bottom of the page, including scheduling setting, Queue setting, and Delete.

2. Click the [Turn on/off] button for a cleaning task to confirm whether to activate the scheduled task. When activated, the task will be executed at the set starting time and completed within the set ending time; otherwise, it will not be executed.

3. Click the [Start] button to execute the task immediately.

4. Create a new task by clicking the [New Task] button at the bottom of the task

management page.

6.1.1. New Task

By clicking the [New task] button at the bottom of the task management page, you can switch to the Schedule Setting sub-page to create a new task. The specific steps are as follows:

1.　Firstly, set the attributes for scheduled task, including the [Task name], [Execution timing] (starting and ending times), [Number of executions], [Schedule] (Once/ Daily/Repetition/Customization), and [Task mode] (Cleaning mode: Scrubbing/Vacuuming/Dust Wiping; cleaning intensity: Standard/Power, with "standard" selected by default). The system will automatically generate default values

that you can edit according to your needs.

2. After setting the cleaning attributes, click the [Next] button at the bottom of the window to switch to the task planning subpage.

3. As shown in the image on the left, select the map containing the target planning to be added to the cleaning queue from the map selection box at the top of the task planning subpage. The map will be displayed in the middle of the page, and all plannings on the map will be listed at the bottom. Click to select a planning to view its details.

4. Select the target planning from the list and click the [+] button on the right side of the planning to add it to the cleaning queue. After adding the target planning, click the [Finish] button at the bottom of the page to finish the new task creating.

5. You can also click the [Edit queue] tab at the top of the list to switch to the

queue order sub-page. Here, you will see that the target planning selected in third step has been added to the cleaning queue at the bottom of the page. You can edit the numbers pf execution by clicking on it on the right side.

6.   Long press a planning in the cleaning queue and drag it up or down to adjust the execution order for the target plannings.

7.   On the cleaning queue subpage, click the [Delete] button at the top right of the list to select multiple plannings in the cleaning queue for deletion. Click [Cancel] to exit the deletion mode.

8.   After adding plannings to the queue, click the [Finish] button on the map to finish creating the cleaning task.

9.   After creating a task, a pop-up window will appear, allowing you to execute

the task immediately. You can click [Confirm] to execute the task immediately, or click [Cancel]. The system will save the new task and you will return to the task management page.
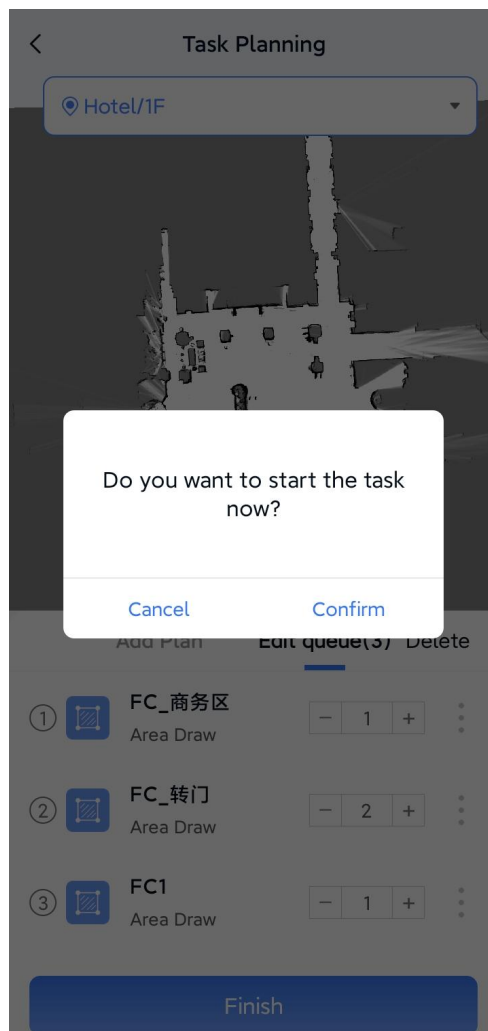
10. After being created, the task will automatically be scheduled. The robot will automatically execute the scheduled cleaning task at the scheduled starting time.

6.1.2. Editing Task

Click on the target task on the task management page to bring up various operation options at the bottom of the page, including Scheduling Setting, Queue Editing, Delete, and Set as Quick Clean.

1. Clicking the [Scheduling Setting] button will take you to the scheduling

setting subpage, where the operations are the same as when creating a new task.

2. Clicking the [Queue Editing] button will take you to the cleaning queue subpage.

（1）On the queue editing page, you can view all the plannings for the current task, as well as the planning order and cleaning times. Select a planning in the queue to view the route or area of the current planning on the map.

（2）Click the [Delete] button at the top right of the cleaning queue list to delete multiple or all plannings in the queue. Click [Cancel] to exit the deletion mode.

（3）Long press and drag a planning to adjust the cleaning order.

（4）After editing the queue, click the [Save] button to save the current edits and return to the task management page.

（4）Additionally, on the queue editing page, you can click [Add Plan] to enter the task planning subpage and add other plannings to the current task. The operation is the same as when creating a new task.

3. Click the [Delete] button to directly delete the current scheduled cleaning task.

6.2. Temporary Task (Planned Cleaning)

On the "Maps - Task Management" page, you can select a planning and click the [Start] button to deliver a temporary cleaning task immediately after selecting the cleaning mode and intensity.
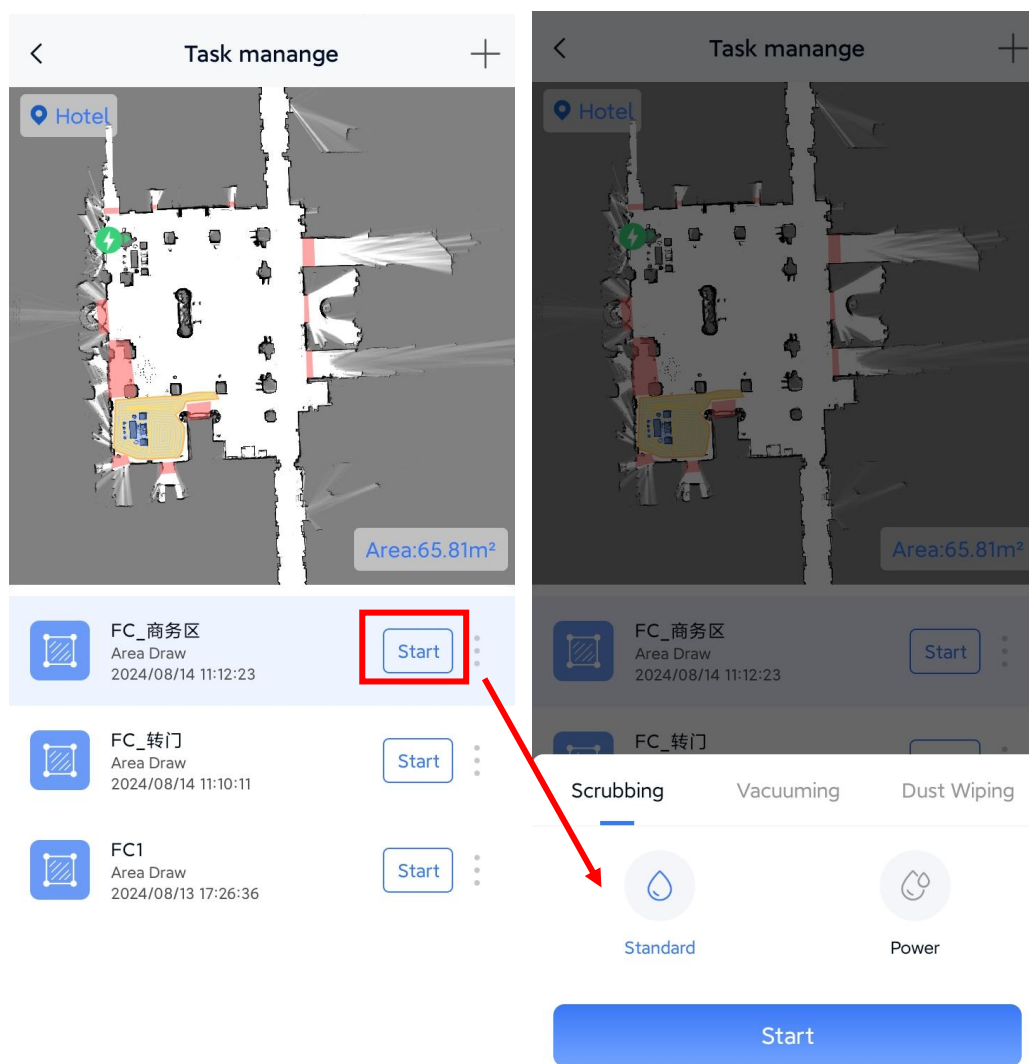
Note:

This function is intended only for temporary tasks. After the cleaning is completed, a corresponding cleaning record will be generated, but the temporary task will not be saved in the task management. If a task needs to be executed regularly, please create a new task in the task management page.

6.3. Task Execution

6.3.1. Delivering Tasks

Click [Start] on the task management page or select a planning in the planning management page and click the [Start] button to deliver a cleaning task.

1. The system will determine whether to execute the task based on the current battery level. If the current battery level is below the low battery threshold, the robot will display a notification: "Too low power level. Fail to start a cleaning task." And the robot will remain in its current state. If the battery level is sufficient, the system will proceed to the next step.

2. If the robot is currently executing another task, a pop-up message will appear: "There is ongoing task, confirm to terminate task?" If you click [Cancel], the robot will remain in its current state. If you click [Confirm], the ongoing task will be automatically terminated.

3. When delivering a task, the App will display a pop-up notification: "The current map is ***, please confirm whether it is consistent with the location of the robot." The user must confirm that the robot is in the correct map and its location is accurate.

If the location does not match the robot's actual position, click [Cancel] to cancel the task delivery. Move the robot to the correct map and location, and then redeliver the task. If the robot is already in the correct map and location, click [Confirm], and

the system will automatically switch to the corresponding task map and deliver the cleaning task.

4. If the robot is positioned on the current map or is charging at station in a with-charging-station map, the system will automatically plan the route and execute the cleaning task.

If the robot is not positioned, a pop-up notification will prompt the user to manually control the robot to the charging station or marked charging point to deliver the task. After clicking [Confirm], the robot will start positioning. Once positioning is successful, the robot will automatically start the cleaning task.

6.3.2. Viewing Task Details

After delivering a task via the task management page or planning management page, you can view the task execution status on the device detail page.
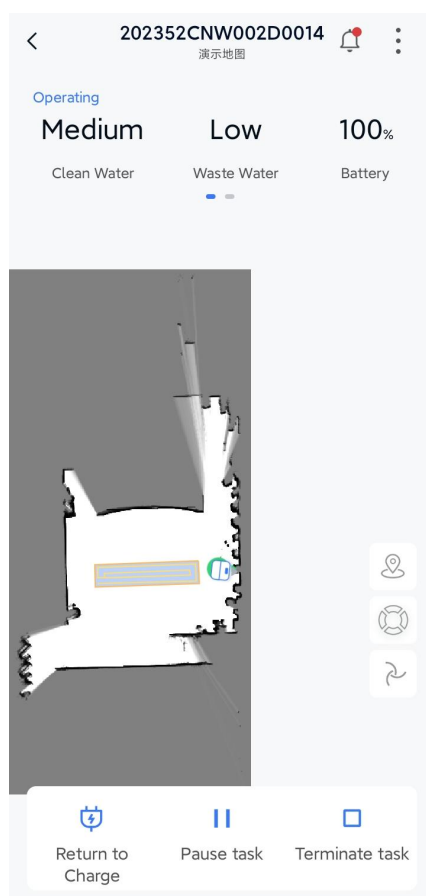
During the task, you can click the [Pause task] or [Terminate task] button at the bottom of the device detail page to perform the corresponding operation on the current cleaning task. You can also click the [Return to Charge] button to terminate the current cleaning task and initiate automatic return. Once automatic return is initiated, you can click [Terminate Auto-returning] at any time to have the robot stop and remain idle in its current location.

If the battery level becomes too low to complete the task, the robot will automatically start returning to charge. At this point, the [Pause/Continue] and [Return to Charge] buttons will be disabled.

7. Remote Cleaning

When in remote control mode, clicking the [Remote Cleaning] button in the "Common Functions" section on the device detail page will bring up a cleaning mode pop-up at the bottom of the page, allowing you to control the cleaning component for cleaning (as shown below). In remote control mode, selecting any cleaning mode (Scrubbing/Vacuuming/Dust Mopping) with any cleaning intensity (Standard/Power) will enable the robot's cleaning component to clean according to the selected mode and intensity.
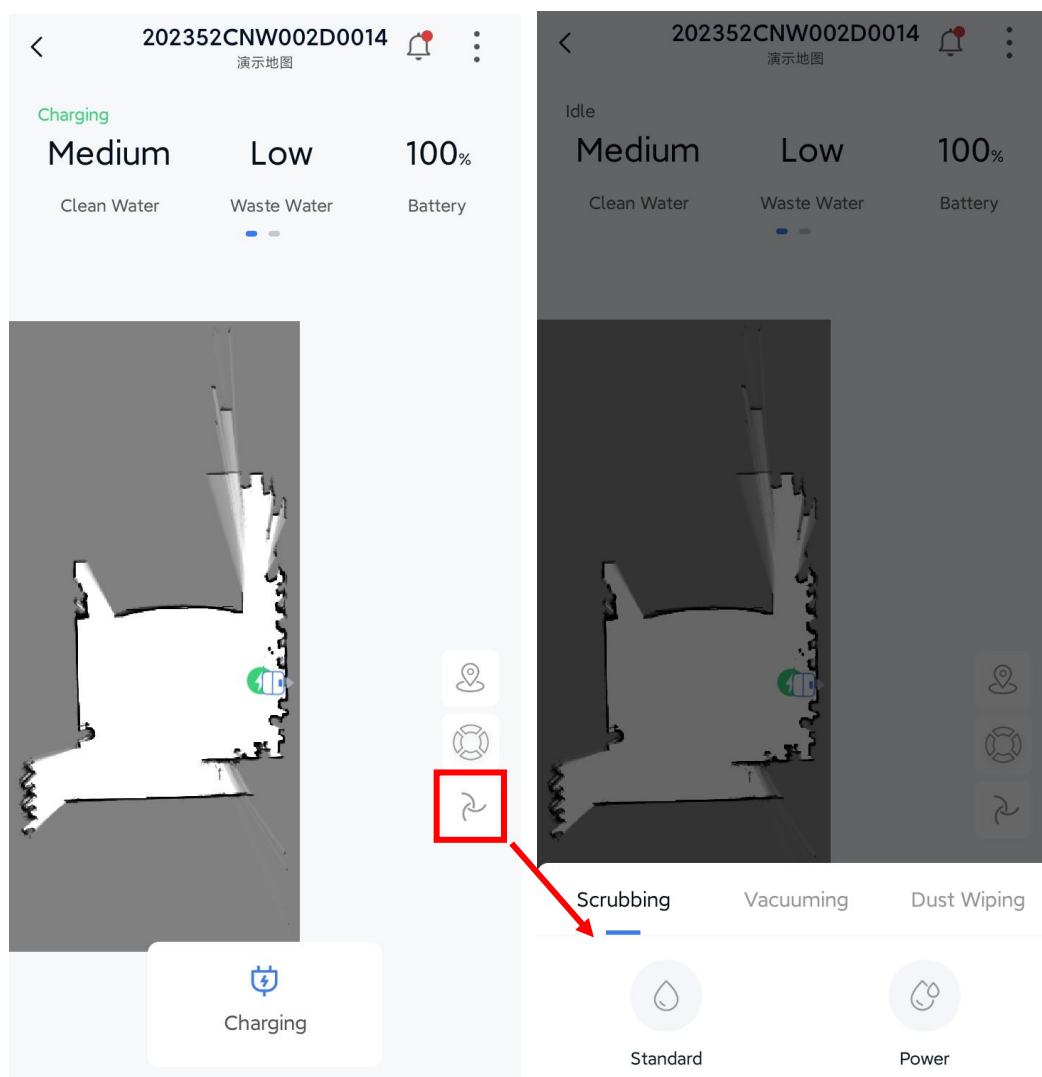
8. Cleaning Record

Cleaning records document the completion of tasks in the form of data statistics. You can access the cleaning record page by clicking the [Records] button on the device detail page or on the homepage, as shown below.

On the cleaning record page, the list of cleaning records is arranged in chronological order, with the most recently completed tasks at the top. Each record shows the task name, cleaning time, task completion progress, cleaning mode, cleaning area, and cleaning duration. Additionally, it indicates the task's completion status: 1) ⊘Finished; 2) ⊙ Canceled; 3) ⚠Abnormal.

8.1.Individual Cleaning Task Records

Each record in the cleaning record list has a [>] button on the right. Clicking it will take you to the detail page of the current cleaning record. On this page, you can

switch between the corresponding subpages by clicking the [Cleaning Data] and [Cleaning Queue] tabs at the top to view detailed statistics or the execution status of the queue, as shown below.
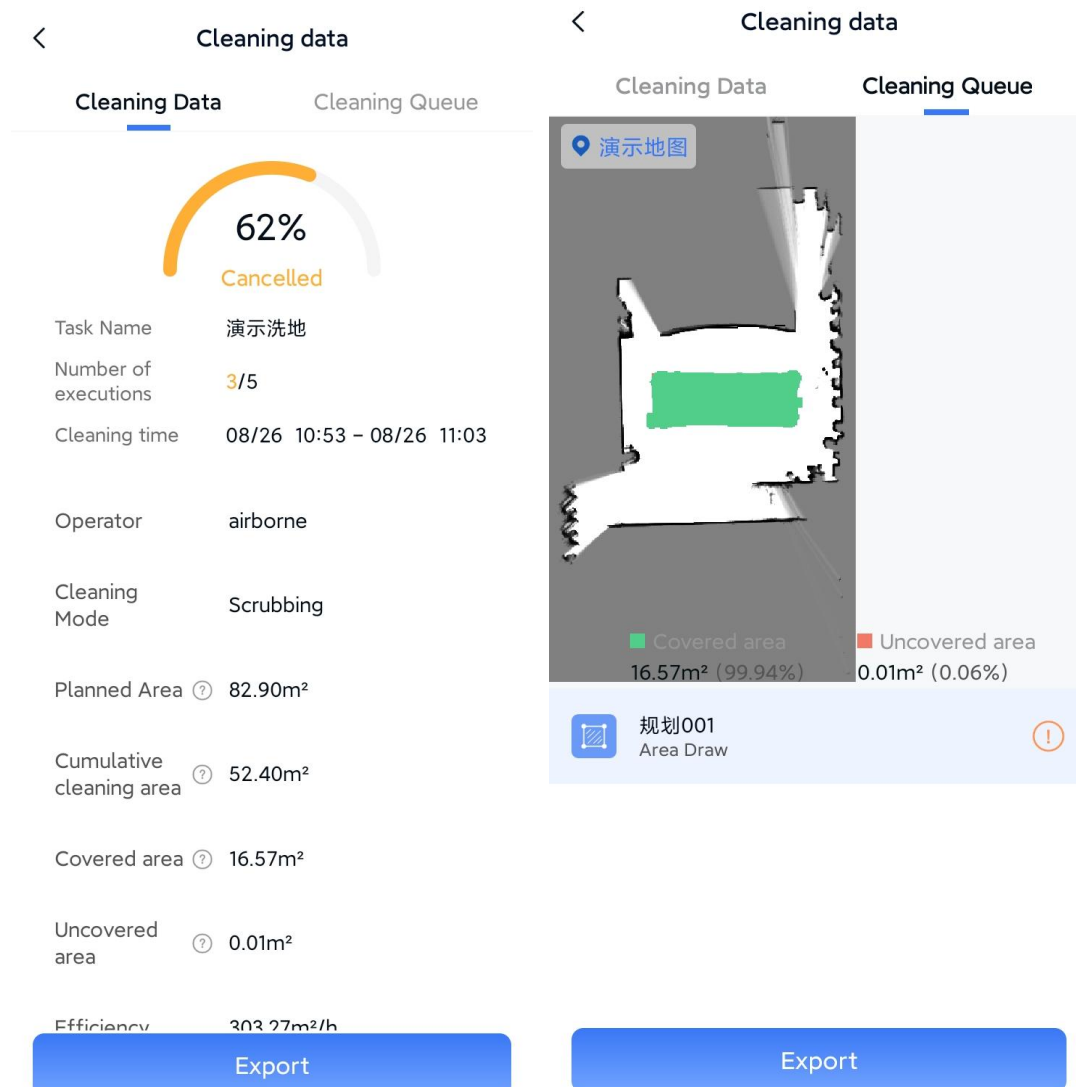
Clicking the [Export] button at the bottom of the detail page allows you to download the cleaning report in PDF format, as shown below.

202352CNW002D0014

SN:202352CNW002D0014

Task information

2024/08/26 10:53 – 2024/08/26 11:03

Task Name	演示洗地
Cleaning mode	Scrubbing
Operator	airborne

Progress	Number of executions
62%	**3/5t**

Planned Area	Cleaned Area
82.90m²	**16.57m²**

Missed Area	Efficiency
0.01m²	**303.27m²/h**

Power Consumption	Water Consumption
74.46wh	**300ml**

Task details

演示洗地 | 1/1 | Canceled

■ Covered area
16.57m² (99.94%)

■ Uncovered area
0.01m² (0.06%)
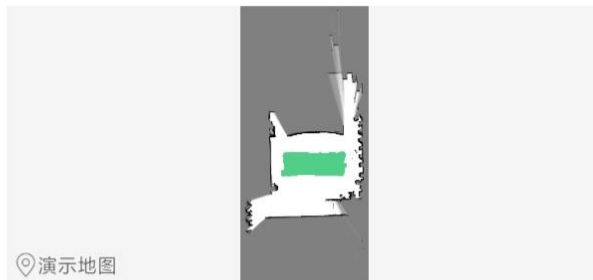
◎演示地图

8.2.Cumulative Cleaning Statistics

In addition to individual cleaning task records, you can click the [7-day data] button at the top of the cleaning record page to switch to the cumulative cleaning data statistics page. The cumulative data page displays the robot's overall usage information, including the total cleaning area, cleaning time, cleaning cycles, cleaning efficiency, water consumption, and power consumption over the past 7 days, as well as daily statistics for cleaning area, water consumption, and power consumption for the most recent 7 days, as shown below.

< **7-day data**

Total Dust Wiping

📍 **0.00**m²
Total Cleaning Areas

🕐 **0.00**h
Cleaning Time

🔄 **0**t
Cleaning Cycles

💧 **0.00**m²/h
Efficiency

⚡ **0.00**Wh/m²
Power Consumption

7-day Cleaning Areas(m²)

Scrubbing

—•— Planned Scrubbing　　■ Actual Scrubbing

Vacuuming

—•— Planned Vacuuming　　■ Actual Vacuuming

Dust Wiping

—•— Planned Dust Wiping　　■ Actual Dust Wiping

7-day Water Consumption(mL)

7-day Power Consumption(Wh)

■ Scrubbing　　■ Vacuuming　　■ Dust Wiping

Export

70

You can also download a cumulative cleaning statistics report in PDF format by clicking the [Export] button at the bottom of the page, as shown below.

7-day Cleaning Areas (m²)

Scrubber

Date	08/31	09/01	09/02	09/03	09/04	09/05	09/06
Planned	0.00	0.00	412.51	82.95	208.20	248.85	0.00
Actual	0.00	0.00	66.60	4.03	28.39	41.10	0.00

Planned Scrubber   Actual Scrubber

Vacuum

Date	08/31	09/01	09/02	09/03	09/04	09/05	09/06
	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Planned Vacuum   Actual Vacuum

Dust Wipe

Date	08/31	09/01	09/02	09/03	09/04	09/05	09/06
	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Planned Dust Wipe   Actual Dust Wipe

7-day Water Consumption (mL)

Date	08/31	09/01	09/02	09/03	09/04	09/05	09/06
	0.00	0.00	330.00	10.00	210.00	220.00	0.00

7-day Power Consumption (Wh)

Date	08/31	09/01	09/02	09/03	09/04	09/05	09/06
Scrubber			282.03	41.42	61.31	80.09	
	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Scrubber   Vacuum   Dust Wipe

9. Consumable Management

Click the [Consumable and maintenance] button in the [More] window to enter the consumable management page, as shown on the left below.

‹ Consumable and maintenance		‹ Filter Bag
Roller Brush	Remaining **100%** ›	
Filter Bag	Remaining **98%** ›	
Hepa	Remaining **98%** ›	
Squeegee	Remaining **99%** ›	**Worked** / **Remaining**
Dust Mopping Cloth	Remaining **100%** ›	**6**h | **98**%
Suction Motor	Remaining **99%** ›	Replacement Steps:

Replacement Steps:

Remove the upper cover of the sewage tank. Loosen the pulling cord of the filter bag under the bellows of the sewage tank. Remove the filter bag. Clean the filter bag or use a new filter bag. Reinstall the clean filter bag and tighten the Pulling cord to complete the replacement.

It is recommended to clean the filter bag once every week. It is recommended to replace the filter bag after 250 hours of vacuuming or scrubbing operation.

Replacement Done

To purchase, please call the service hotline: +86-755-8657 1078

Or you can enter this page by clicking [More - Consumable and maintenance] on the device detail page.

The consumable and maintenance page lists the usage status of the roller brush, filter bag, HEPA, squeegee, dust mopping cloth and suction motor. Clicking the button on the right side of a target consumable item will take you to the consumable

detail page.

The consumable detail page displays the consumable name, consumable image, working time, remaining percentage, replacement steps, and a [Replacement Done] button.

Clicking the [Replacement Done] button will reset the working time and remaining usage percentage data of the consumable.

10. My Device

Click the [My Device] button in the [More] window to access the device information page. The operations and content of this page are described in *section 3.5 All Devices*.

11. Setting

The administrator can enter the advanced setting page by clicking the [Setting] button in the [More] window, as shown below.
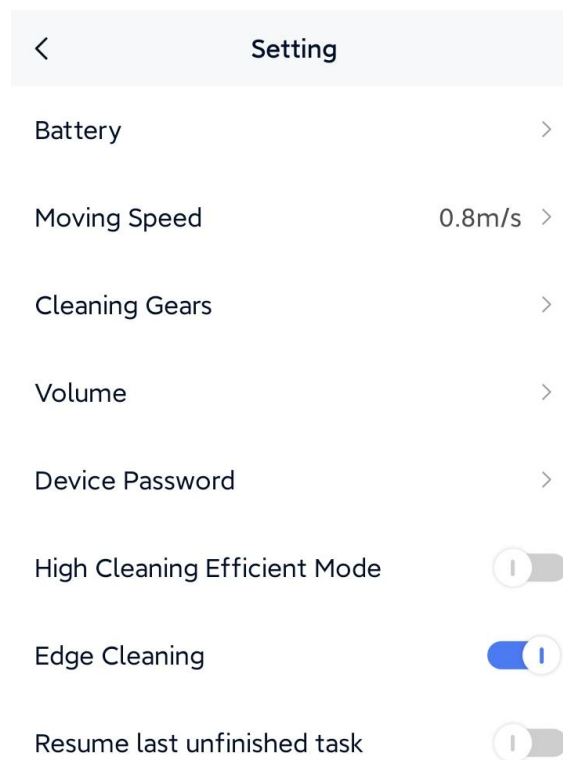
11.1. Battery

Click the [Battery] button on the setting page to enter the battery management subpage, where you can:

1. Drag the slider to set the Critical Level and Upper Level, then click the [Save] button to apply the changes;

2. By default, "Auto-returning" is set to [On]. You can click to turn off Auto-returning;

3.　　Click the [Reset] button to reset the battery thresholds and auto-returning to their default settings.
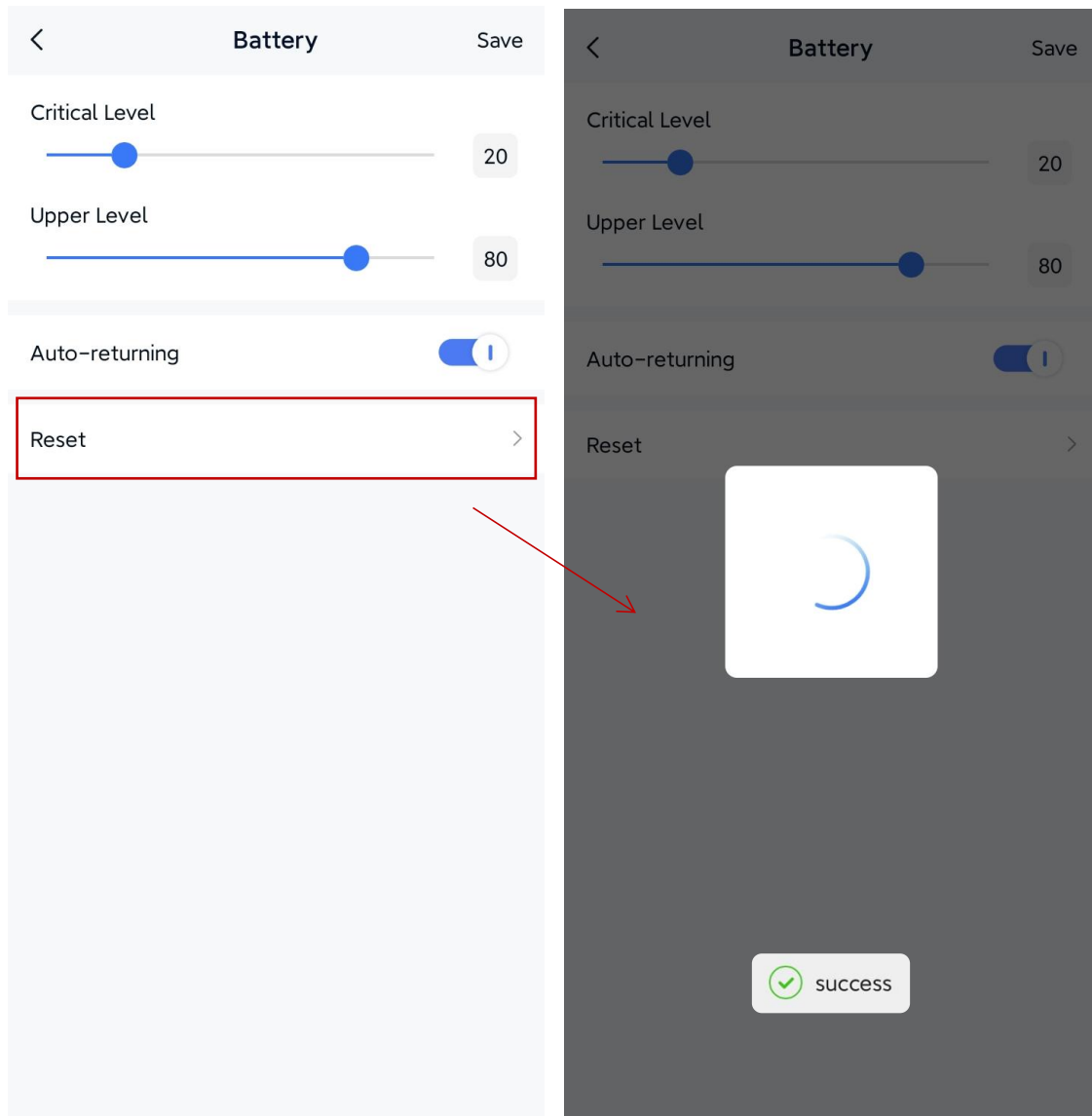
11.2.　Volume

Volume: Click to enter the volume settings page.

1. Adjust the volume bar to directly adjust the broadcast volume.

11.3. Device Password

Click the [Device Password] button on the setting page to access the device password page, where you can view the device passwords, including the Screen unlock and system password.

1. Screen unlock password: By default, the robot requires the screen unlock password to enter the homepage when it starts up, or when it is reactivated after entering sleep mode (if the screen unlock password function is enabled). You can view the robot's screen unlock password on the device password page, and you can also change the password or reset it to the default password.

2. System password: The robot requires a system password to use certain functions. If needed, you can view the system password on the device password page, and you can also change or reset the system password.
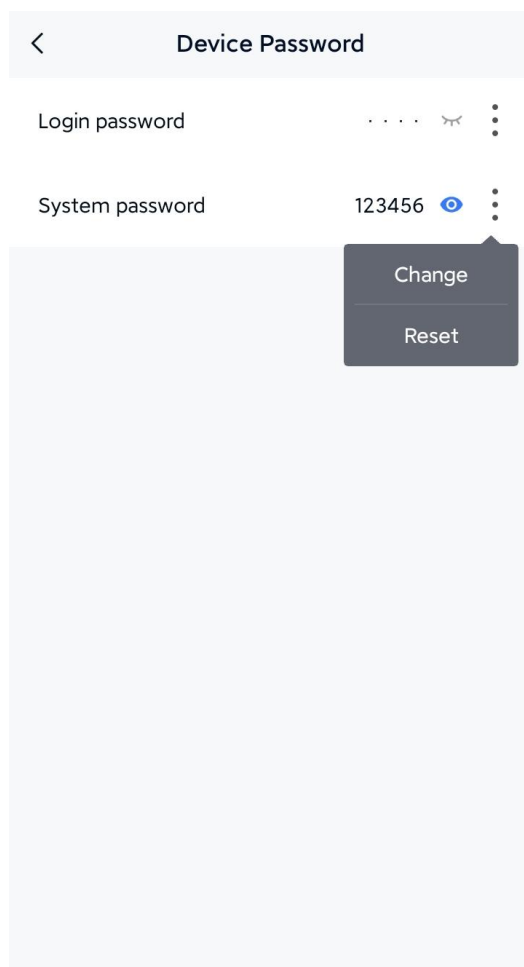
12. Me

By clicking the [Me] button on the homepage's tab bar, you can access the "my account" page to configure account setting, user management, and software update, as shown below.
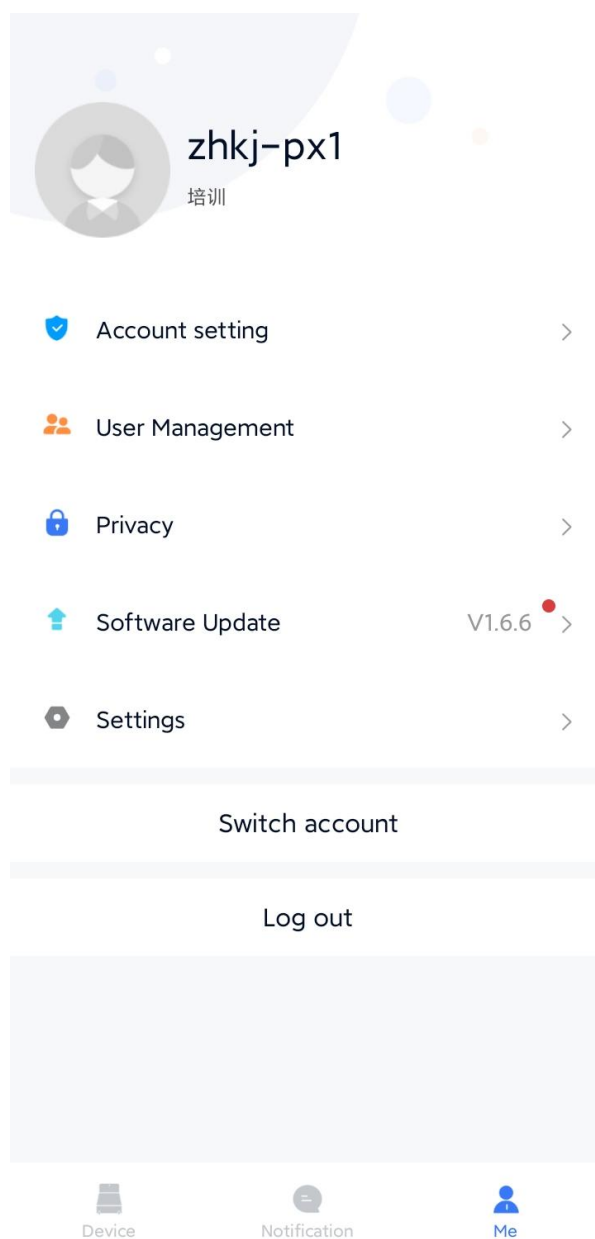
12.1.　Account setting

On the "Me" page, click the [Account setting] button to navigate to the subpage, where you can modify your profile photo, change your username, update your linked phone number, change your password, and cancel your account, as illustrated below.
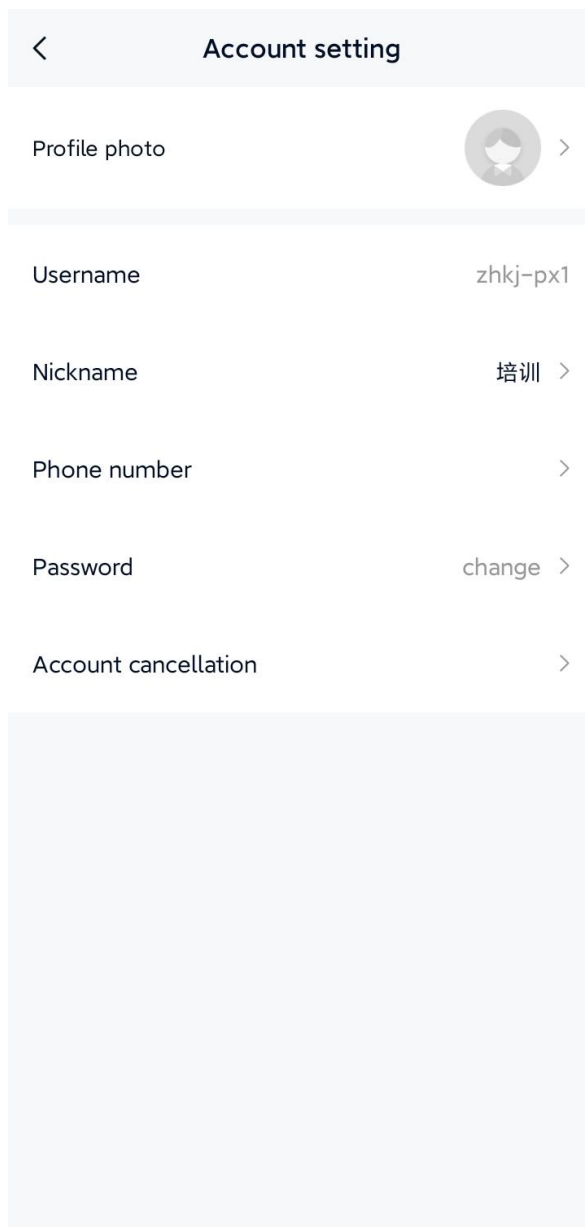
12.2.　User Management

The user management function is only available to administrators and is used for

managing all regular users within an organization. On the "Me" page, administrators can view and click the [User Management] button to navigate to the user management subpage, as shown in the image on the right. On this subpage, administrators can add or remove regular users within the organization or modify the projects associated with regular users.
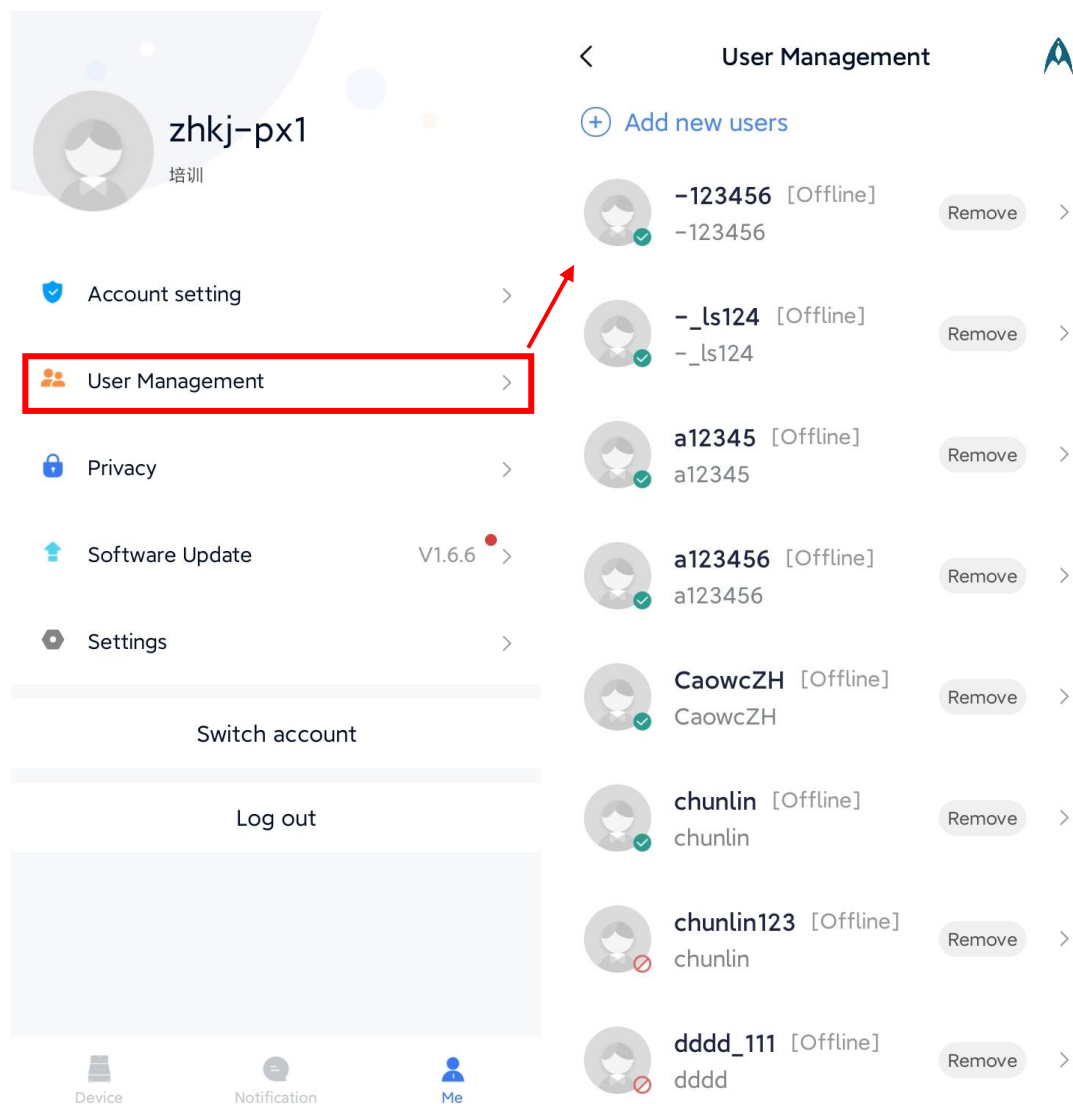
Administrators can view all regular users within the organization on the User Management page, along with user information and online status. One User can belong to multiple projects within the same organization, but can belong to only one organization.

1. Adding new users

Regular users can be added to a new organization project only after they have registered a valid account and have not been bound to another organization.

On the User Management page, click the [Add new users] button to navigate to the "user adding" page. Enter the regular user's username or phone number in the username field. The system will automatically verify if the user is valid. Once verified, you can add projects in the "Project name" field (multiple selections are allowed). Then, choose the User Role (Regular User or Project Manager).

After clicking the [Add] button at the bottom of the page, the regular user will be added to the corresponding project. Once added, the regular user can view all devices under the assigned projects when using the App.

Note:

If a user is already exists in an organization and needs to be transferred to another organization, the user must be removed from the original organization first before being added to the new organization.

2. Removing Users

Administrators can remove regular users within the organization. Select a user from the list on the User Management page and click the [Remove] button, then a prompt will pop up for confirmation. After confirming, the user will be removed from all associated projects, effectively being removed from the organization. At this point, the user will be in a detached state without being bound to any organization. Upon entering the device page, no access to robot information will be displayed on the default page.
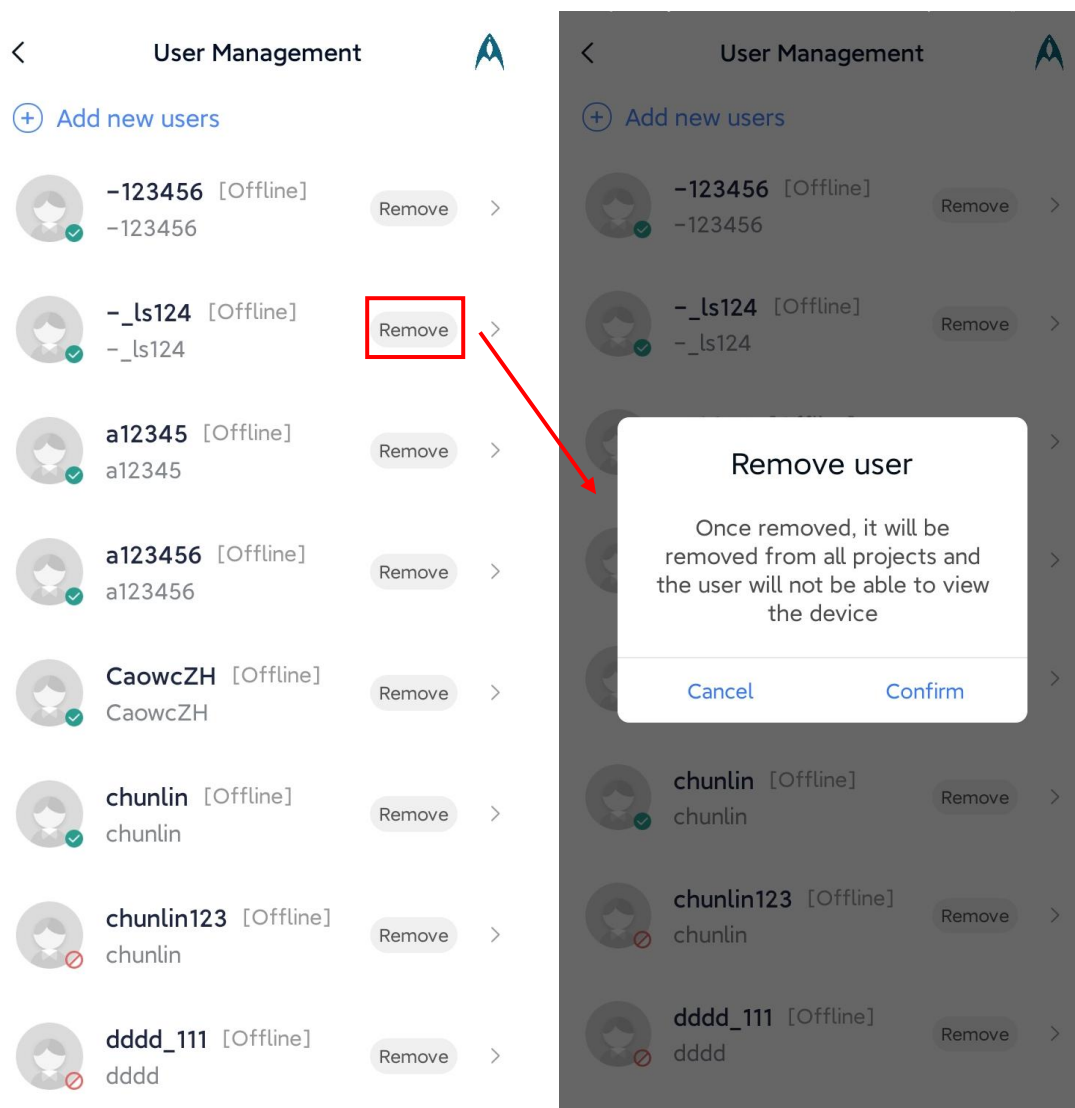
3、Project Management

On the User Management page, you can click on a user item in the list to enter the User Information page, where you can view the user's information and manage the projects they belong to (add or remove projects).

（1）Adding project

Click the [+] button to navigate to the project adding page, which displays a list of projects the user is not currently associated with. Select the target projects and click the [Confirm] button in the upper right corner of the page to complete the addition.

（2）Removing project

On the User Information page, click the [Remove] button next to a project in the user's project list. A prompt will pop up for confirmation. After confirming, the user will be removed from the project and will no longer have access to the devices under that project.

12.3. Software Update

On the "Me" page, click the [Software Update] button to navigate to the software update subpage. Here, you can view the current version of the app, check for updates,

and view the update history, as illustrated below.

Click the [Update] button at the bottom of the software update page access a new version of software. If a new version is available, the button will display [Update]. Clicking the [Update] button will download and install the latest version of the App.
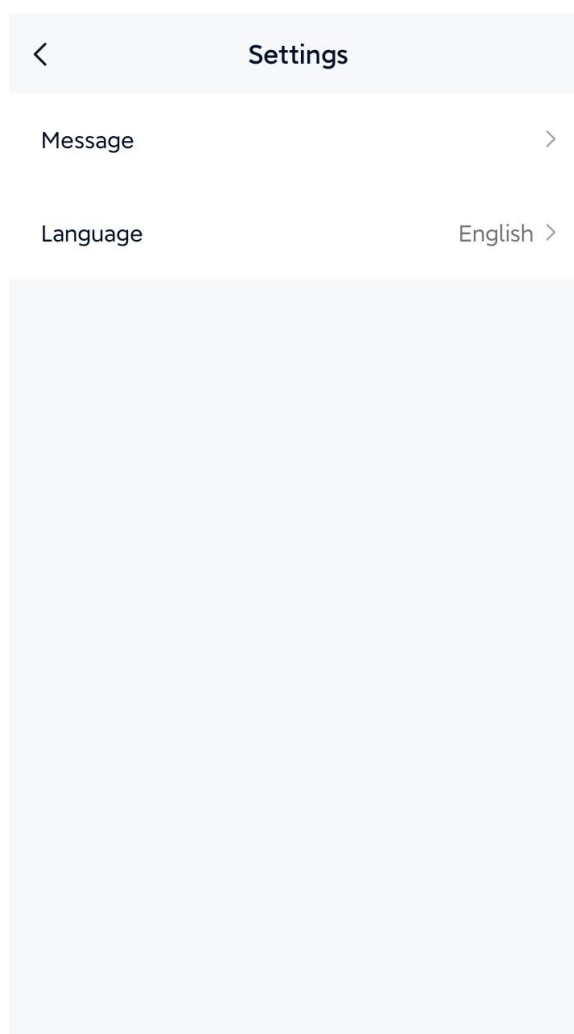
Clicking the [Update Log] button will navigate to the update log page, where you can view the app's update history and the details.
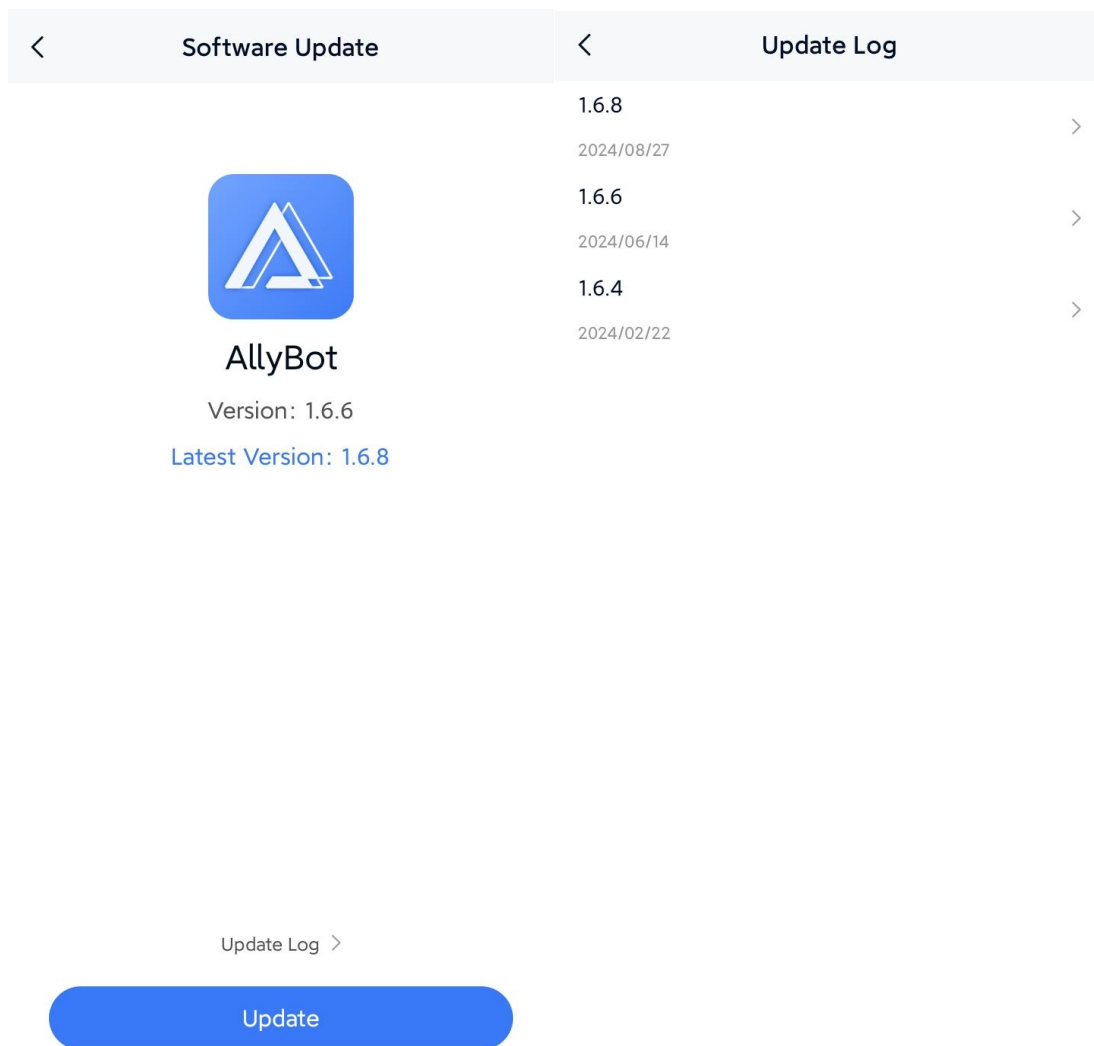
12.4. Setting

On the "Me" page, click the [Settings] button to navigate to the setting page,

where you can configure Message and system Language settings.

Settings

Message   ›

Language   English ›

1.Message setting:

Click [Message] on the subpage to enter the message/notification setting page, where you can configure the types of push notifications. Tap the switch on the right side of each type to enable or disable notifications. If enabled, the system will automatically notify new messages to your phone's notification bar.

2.Language Setting：

Click [Language] to navigate to the language selection page. The system language will be automatically switched once selected and saved.

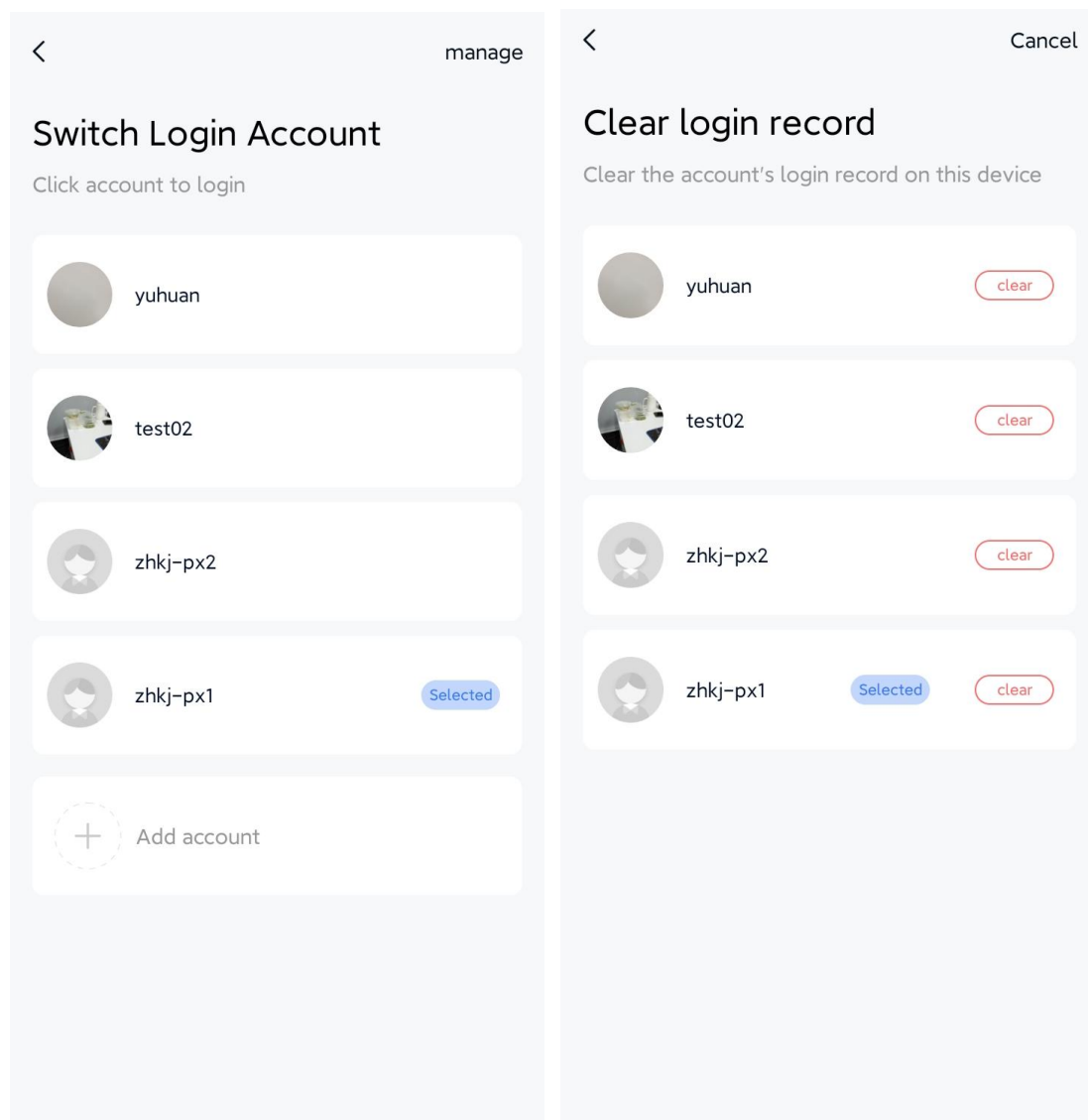| ‹	**Notice**		‹	**Language**	Save

Allow to receive push notifications

	简体中文	
Warning	⬤	
	繁體中文	
Operation Log	⬤	
	English	✓

日本語

한국어

Français

Deutsch

Dansk

Nederlands

Suomi

Italiano

Norge
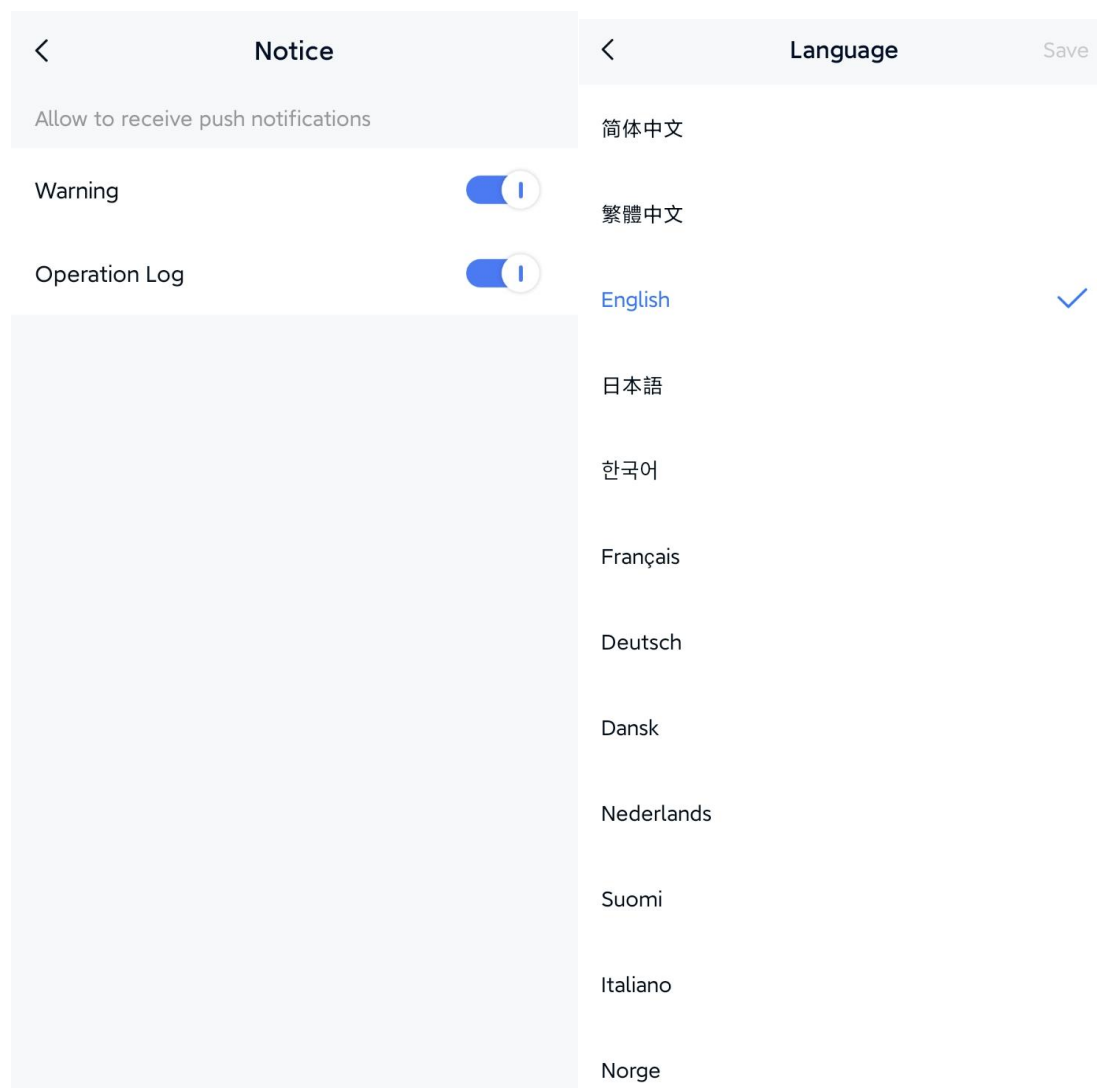
12.5.   Switch Account

On the "Me" page, click the [Switch account] button to navigate to the switch account subpage. Here, you can log in with another previously logged-in user or add a new user, as illustrated below.

‹	manage		‹	Cancel

Switch Login Account

Click account to login

  yuhuan

  test02

  zhkj-px2

  zhkj-px1   Selected

  + Add account

Clear login record

Clear the account's login record on this device

  yuhuan   clear

  test02   clear

  zhkj-px2   clear

  zhkj-px1 Selected clear

12.6. Logout

On the "Me" page, clicking the [Log out] button will log you out immediately, as shown below. The interface will return to the login page, and you need to log in again to use the App.