1. Scope of Application

This document applies to all Omine robots with the AIO 1.3 software version, including the disc brush version.

2. Update Notes

Created on 2025/4/8.

3. Appearance Introduction

3.1 Front View

NO.	Name	Function
1	3D LiDAR	Detects obstacles in front of the machine for avoidance.
2	Central Color Camera	Obstacle Avoidance and real–time color image acquisition.
3	Supplementary Light	Provides supplementary lighting for the front of the machine.
4	Horizontal Lidar	Detects obstacles in front for avoidance.
5	Anti–collision Front Shell	Provides collision cushioning to prevent secondary damage.

3.2 Rear View

NO.	Name	Function
1	Assist Handle	Used to push the machine for movement.
2	Water Filling Port	For adding clean water to the machine.
3	Rear Supplementary Light	Provides supplementary lighting for the rear of the machine.
4	Rear Lidar	Detects obstacles behind the machine for avoidance.
5	Rear Central Color Camera	Obstacle Avoidance and real–time color image acquisition.
6	Electrode Plates	In contact with the workstation electrode plates for charging.

3.3 Top View

NO.	Name	Function
1	Emergency Stop Button	When the button is pressed, the machine will stop working immediately.
2	Screen	Adjust various parameters of the machine.

3.4 Side View

NO.	Name	Function

1	Side Central Color Camera	Real-time acquisition of color images from the side of the machine.
2	Supplementary Light	Provides supplementary lighting for the side.
3	Manual Drainage Pipe	Drains water from the wastewater tank.
4	Manual Charging Port	Used to manually charge the machine.

3.5 Bottom View

NO.	Name	Function
1	Univeral Wheel	Assist the machine in turning.
2	Disc Brush	Clean up trash along the machine's operating path.
3	Hub Motor	Provide power for the machine's movement.
4	Lint Filter	Filter out large debris.
5	V-shaped Squeegee	Scrape water stains from the floor.

4. Introduction to Power On/Off

(1) Find and press the main power switch located on the lower right side of the machine.	(2) Insert the key, turn it clockwise to the "on" position and hold the key in this position until the machine starts up. After the machine is started, the key will automatically return to the "off" position.

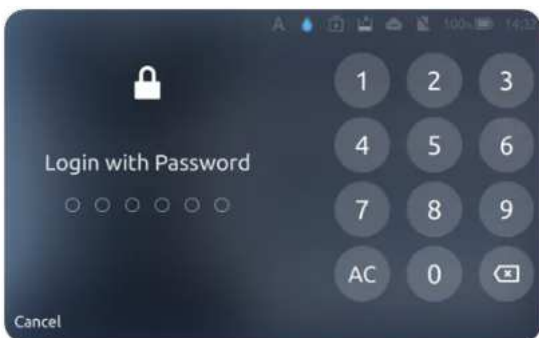|	
(3) Enter the password and click Log In.	(4) Insert the key, turn it clockwise to the "on" position and keep holding the key in this position until the machine is shut down. After the machine is turned off, the key will automatically return to the "off" position.

Note:

Do not directly turn off the main power switch while the machine is powered on.

5. Manual Pushing

(1) Enter the password and log in to the machine.	(2) On the screen, click "Manual Mode" to switch to manual mode.
(3) Use the assist handle to push the machine to the target location.	
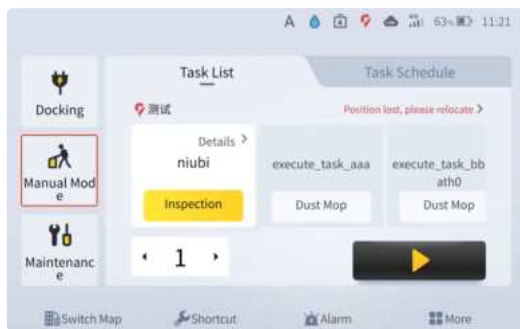
6. Introduction to Charging

6.1 Charging with a Charging Cable

(1) Manually push the machine to the charger/ workstation/ charging pile.	(2) Pull out the cover of the charging port on the left side of the machine.
A. Charger B. Workstation C. Charging Dock	
(3) A. Hold the red charging plug of the charger. B. Take out the red charging plug from inside the left side door of the workstation. C. Take out the red charging plug from inside the right side door of the charging pile.	(4) Insert the red charging plug into the machine's charging port.
A. Charger B. Workstation C. Charging Dock	
(5) Connect the charger/ workstation/ charging pile to the power source.	(6) Check the machine's screen to confirm that the robot is in the charging state.
A. Charger B. Workstation C. Charging Dock	Plug in charge
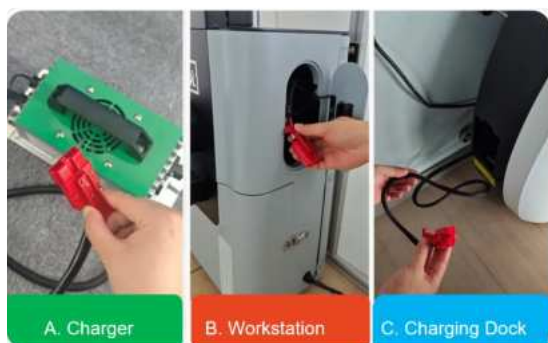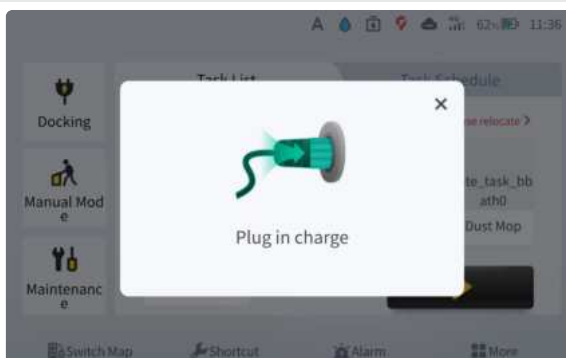
(7) Once the battery is fully charged to 100%, unplug the red charging plug and reattach the cover to the charging port.	(8) Unplug the power plug from the charger and store the charger properly; or tidy up the charging cable and place it back inside the side door of the charging pile or the workstation, then close the side door.
A. Charger   B. Workstation   C. Charging Dock |
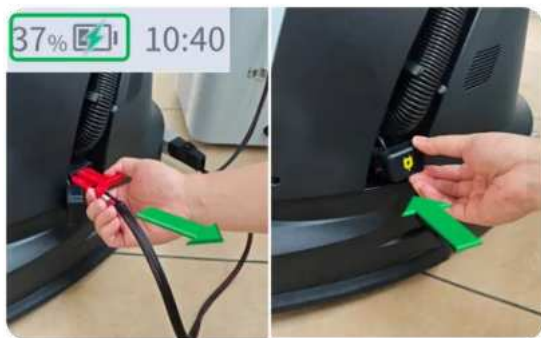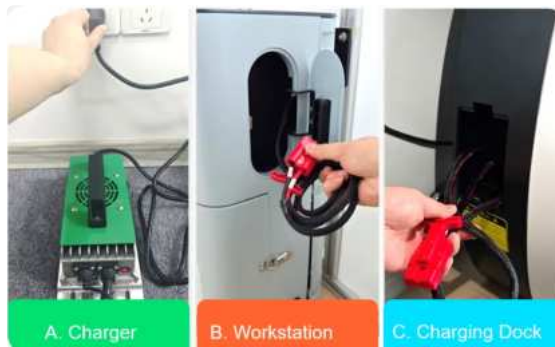
6.2 Manual Docking and Charging

(1) Manually push the machine to the charging pile/ workstation.	(2) Rotate the machine to align the charging electrode plates of the machine with the those of the charging pile or workstation.
A: Charging   B: Charging Station
(3) Push the machine to make the charging electrode plates of the machine contact with those of the charging pile or workstation. Release the machine when the light strip of the charging pile or workstation turns green.	(4) Check the machine's screen to confirm that the robot is in the charging state.
A: Charging   B: Charging Station |
On automatic charge |
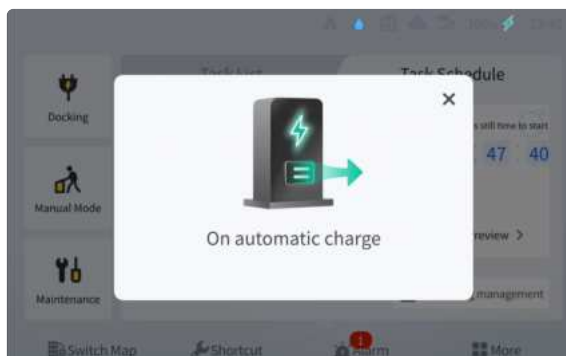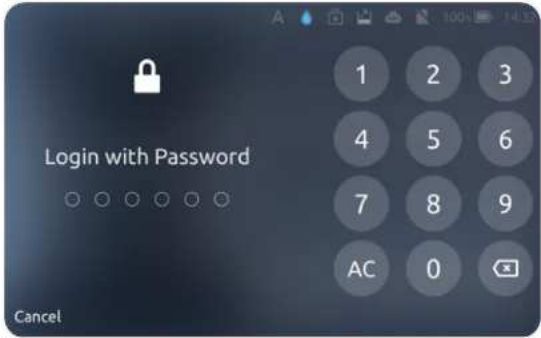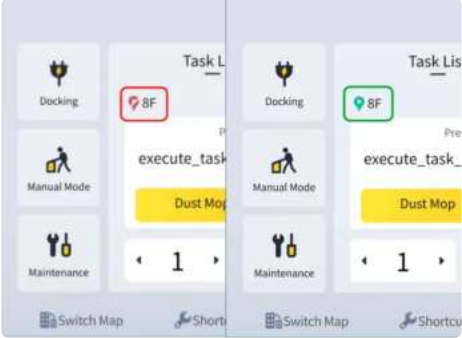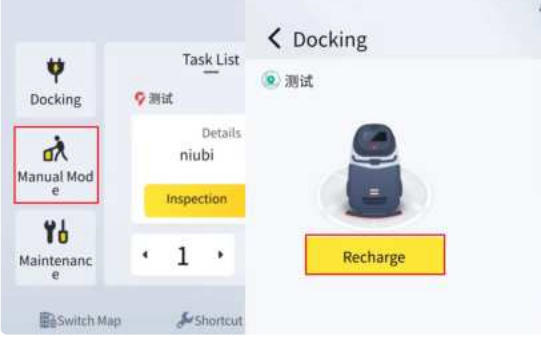
6.3 Automatic Docking and Charging

(1) Enter the password to log in to the machine.	(2) Check the machine's positioning icon to ensure that the positioning is normal. If the positioning is abnormal, please refer to "Relocation Positioning" to help the machine regain its position.
(3) On the screen, click the "Docking" button, then click "Recharge".	(4) The machine will automatically navigate back to the charging pile or workstation and start charging.

7. Refill/ Drain Water

7.1 Manual Water Refilling

(1) Open the head cover upwards, take out the cleaning solution box upwards.	(2) Fill the clean water tank with clean water using a measuring bucket, water gun, or hose.
(3) When adding water, observe the water level inside the tank and stop filling when the water level reaches the maximum level (MAX).	(4) Reinstall the cleaning solution box and close the head cover.

7.2 Manual Drainage
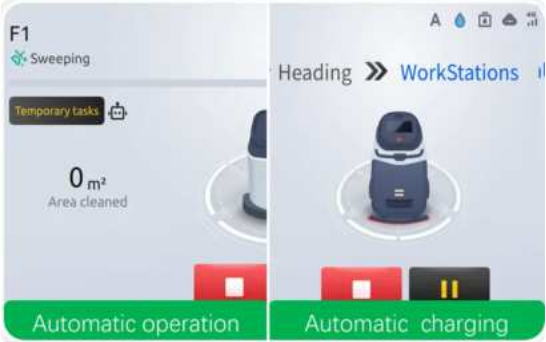
(1) Manually push the machine to a location where manual drainage is possible.	(2) Take out the drainage pipe, keep the pipe opening upright and higher than the liquid level inside the wastewater tank, and then open the pipe cap. Tilt the drainage port outward to start draining.
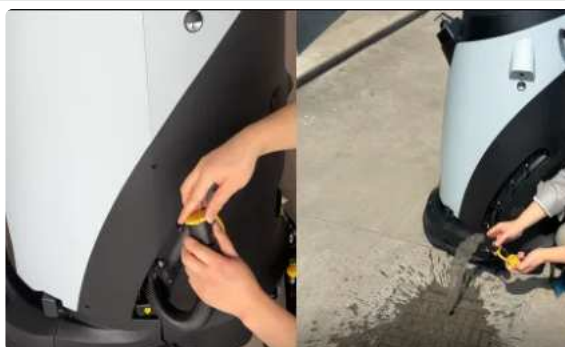
(3) Place the drainage pipe above a floor drain to allow the wastewater to drain freely.	(4) Open the head cover upwards and take out the cleaning solution box upwards.
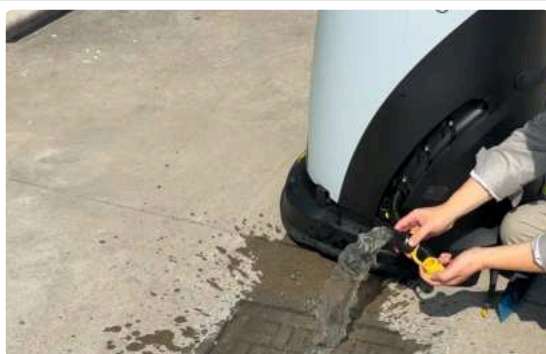
(5) Lift upwards and turn the yellow bolt inside the clean water tank counterclockwise to open the bottom drain plug of the clean water tank. Wait for the clean water to drain completely.	(6) After the clean water has drained completely, rotate clockwise the yellow bolt inside the clean water tank to close the bottom valve of the water tank.

Drain Plug Open	Drain Plug Closed
(7) Reinstall the cleaning solution box and close the head cover.	(8) Close the drain pipe cap and retract the drain pipe.

7.3 Automatic Water Refilling and Drainage

(1) Enter the password to log in.	(2) Check the machine's positioning icon to confirm that the machine is correctly positioned. If the positioning is abnormal, refer to "Relocation Positioning" to help the machine regain its position.
(3) On the screen, click the "Docking" button, then click "Recharge".	(4) The machine will automatically navigate back to the workstation for refilling and drainage.
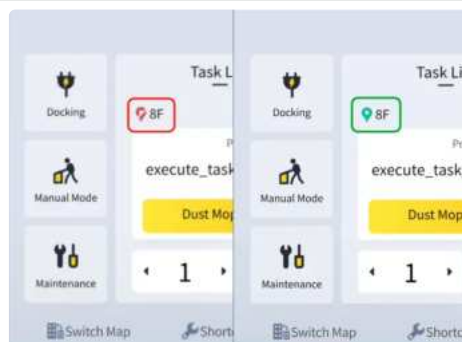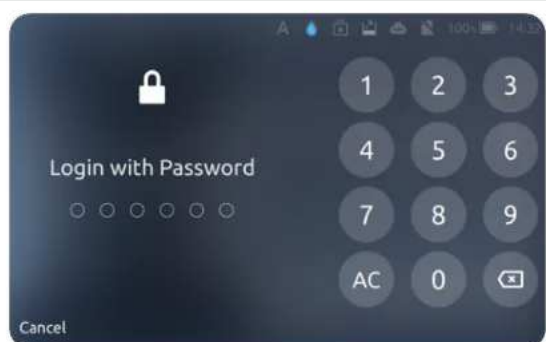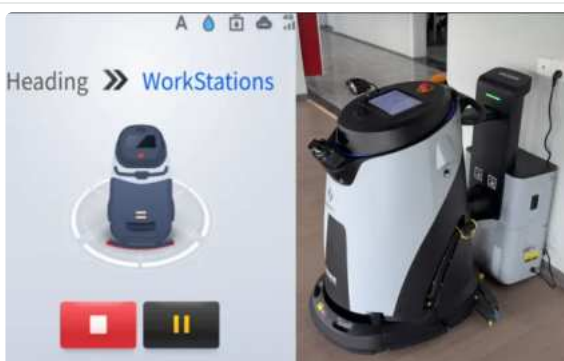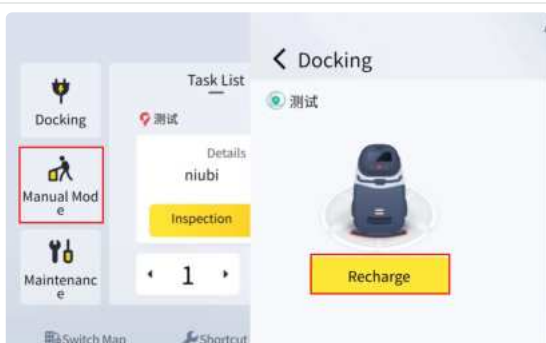
8. Emergency Stop and Risk Avoidance
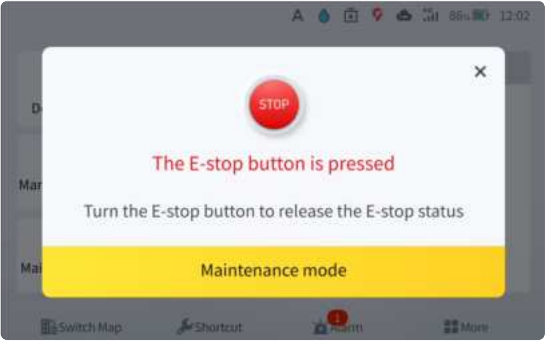
(1) The machine is performing automatic cleaning operations or automatically returning to the workstation.	(2) If an emergency situation arises, pressing the emergency stop button will put the machine into an emergency stop state.
(3) Tthe screen will display the following interface, and the machine cannot be manually pushed.	(4) To release the emergency stop button, you can turn it clockwise.

9. Manual Operation

(1) According to the cleaning mode and accessory installation chart, correctly install the cleaning accessories.	
(2) Tap the "Manual Mode" button on the screen.	(3) Tap "Switch to Manual Cleaning".
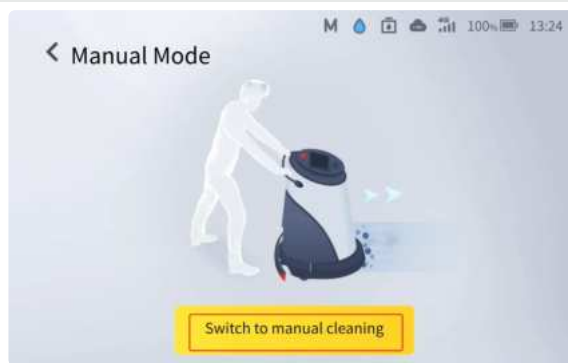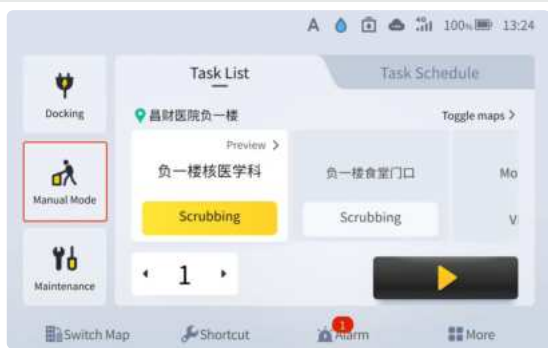
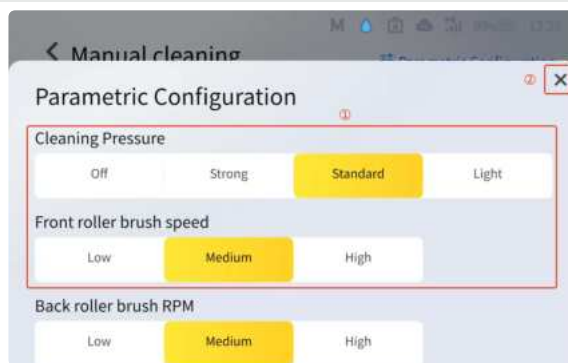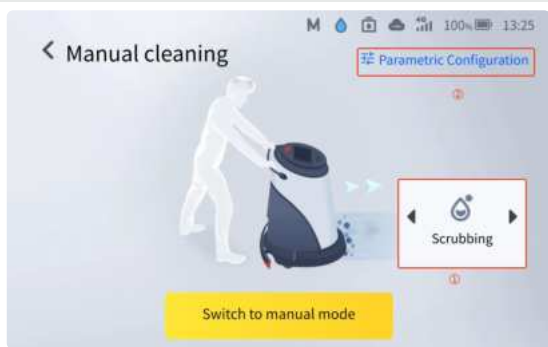|	
(4) ① Select the desired "Cleaning Mode"; ② Tap "Parametric Configuration".	(5) ① Adjust the suction level, water spray level, and other cleaning settings as needed;　② Tap "×" to close the parameter configuration.
(6) Manually push the machine to the area that needs cleaning.	(7) After cleaning is complete, tap "<" to exit manual cleaning. If the scrubbing mode is used, after the cleaning is finished, the machine will handle the residual water on the floor, and you need to wait for a while.
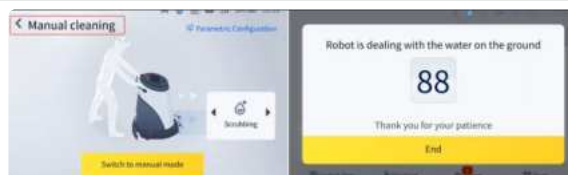
10. Automatic Operation

(1) Install the cleaning accessories correctly according to the cleaning mode and accessory installation chart.

Cleaning Attachments		Cleaning Mode	
		cleaning	Pust Pusher
Fur filter		Essential	Essential
HEPA		Essential	Non-Mandatory Installation
Filter Basket		Essential	Non-Mandatory Installation
Clear Water Tank Wire Mesh Filter		Essential	Non-Mandatory Installation
Sewage Tank Wire Mesh Filter		Essential	Non-Mandatory Installation
Water Squeegee		Essential	——
Dust Pan		——	Essential
Brush Head		Essential	Non-Mandatory Installation

(2) Click on "Task List" on the screen.
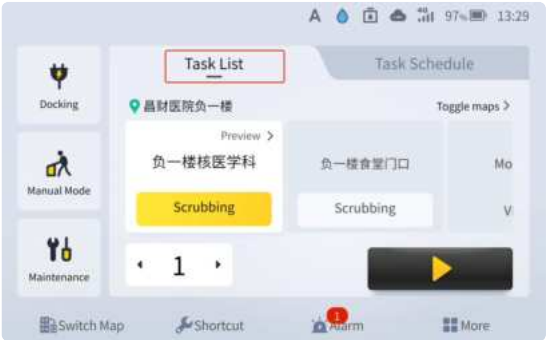
(3) Check the machine's positioning icon to ensure that the positioning is normal.
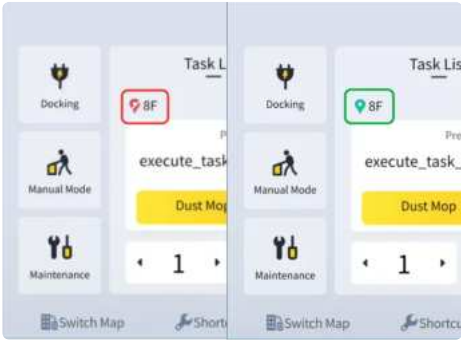
(4) Swipe left or right through the task list to find the combined task you need by the name.
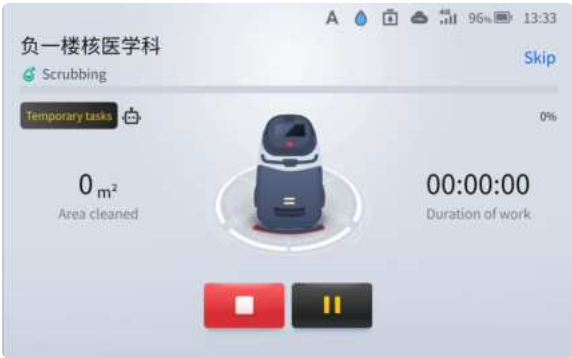
(5) Tap the yellow button to adjust the cleaning mode. Select the cleaning mode you want to use and tap "Confirm".
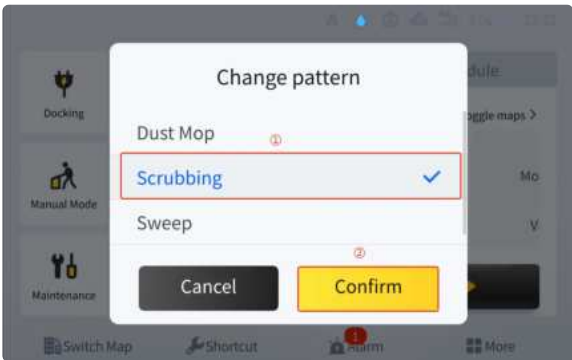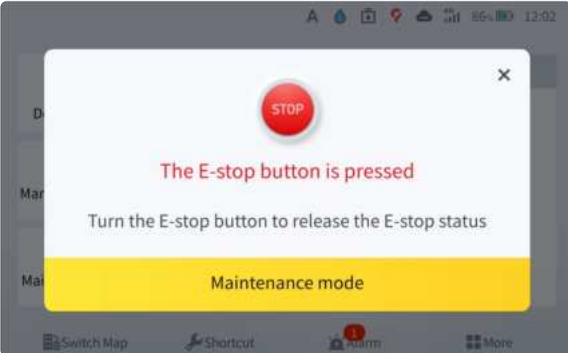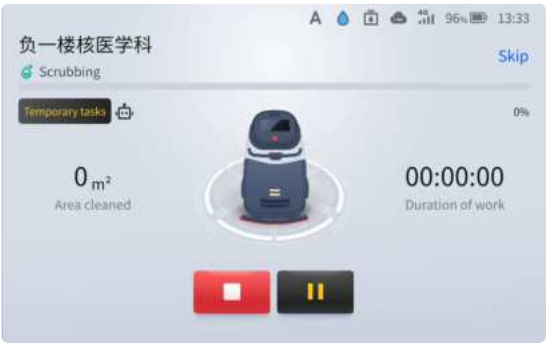

(6) Adjust the number of task cycles as needed, then tap the start button.

(7) The machine starts to work automatically.

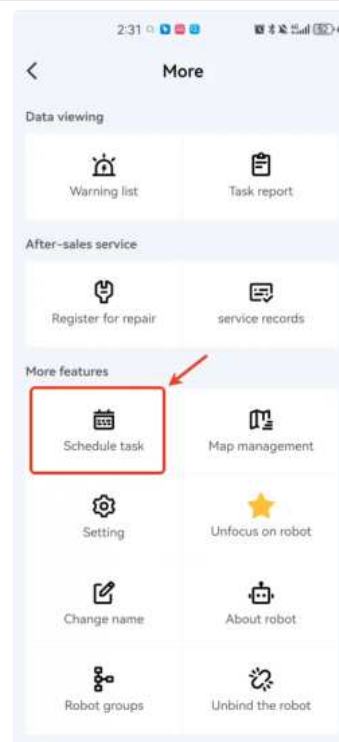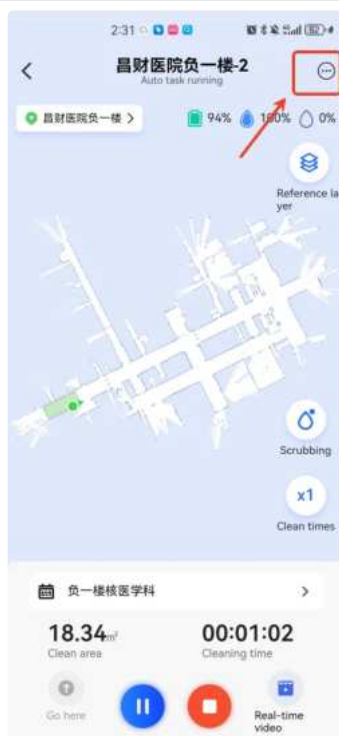| (8) To pause or stop the automatic operation, you can press the "Emergency Stop" button to halt the robot.	(9) If the screen is locked, you need to log in with your password firstly. After logging in, tap the "×" to close this interface.
(10) At this point, the automatic operation has been paused. If you want to end the automatic operation in advance, click the "End" button on the screen.	(11) Click the "Continue" button to resume the task. If you are unable to continue the task, first turn the emergency stop button clockwise, and then click the "Continue" button on the screen.

11. Schedule Setting

11.1 Set up the Schedule through the Gausium Mobile App

(1) Open the "Gausium Mobile" App and log in to your account. If you haven't been granted an account, please contact Gausium's after–sales engineers.	(2) ① Tap on "Robots". ② In my robot list, find the corresponding robot and tap on it. If the robot is not in the list, please contact Gausium's after–sales engineers.
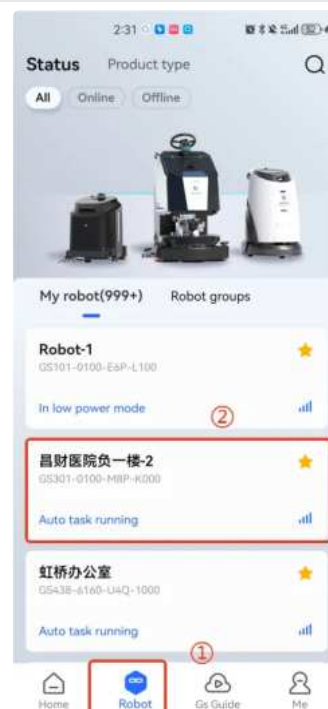
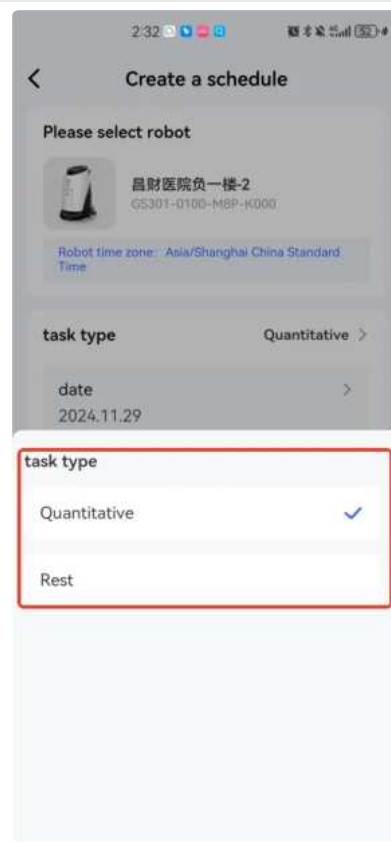|	
(3) Tap the 『⋯』 icon in the top right corner.	(4) Tap "Schedule Task".
(5) Tap the 『📅』 icon in the top right corner.	(6) ① Tap "Task Type"; ② Select "Quantitative" or "Rest". Quantitative: Specify the start time and number of cleaning cycles. Rest: No tasks are performed.

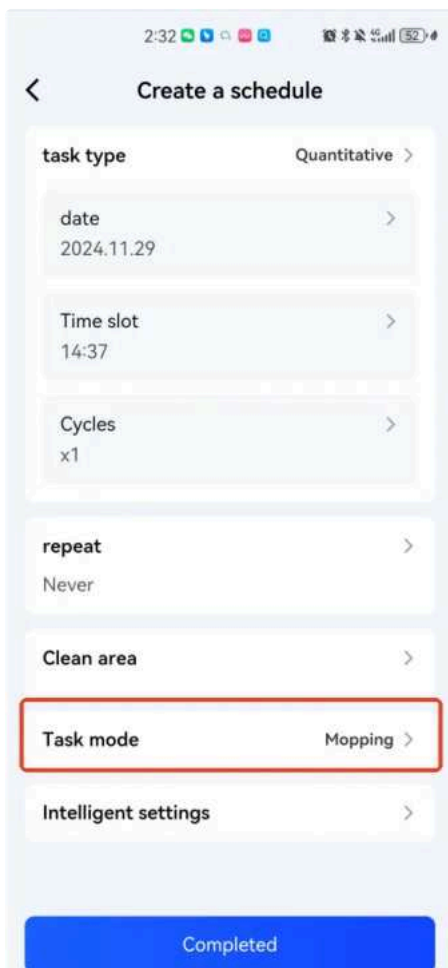|	
(7) Set the start date, time period, and number of cycles for the task.	(8) ① Tap "Repeat"; ② Check the days of the week; ③ Tap "Confirm" to set the repeat cycle for the scheduling task based on the selected days. Never: The scheduling task will not repeat and will only be executed once on the specified start date.
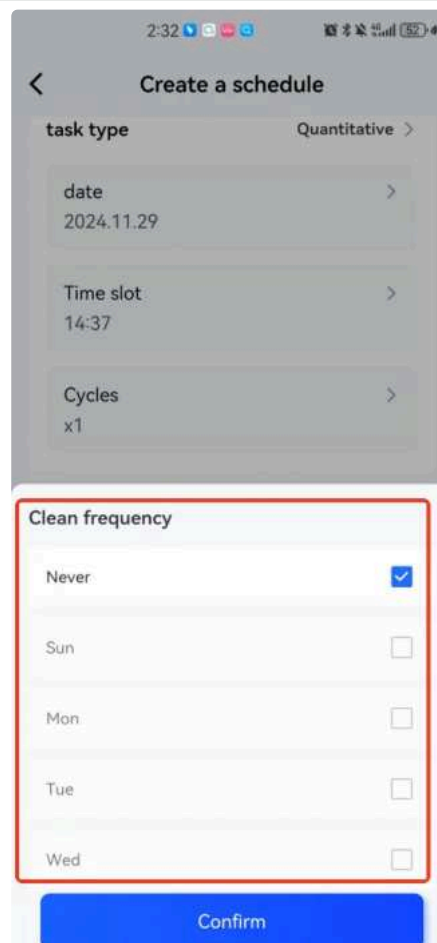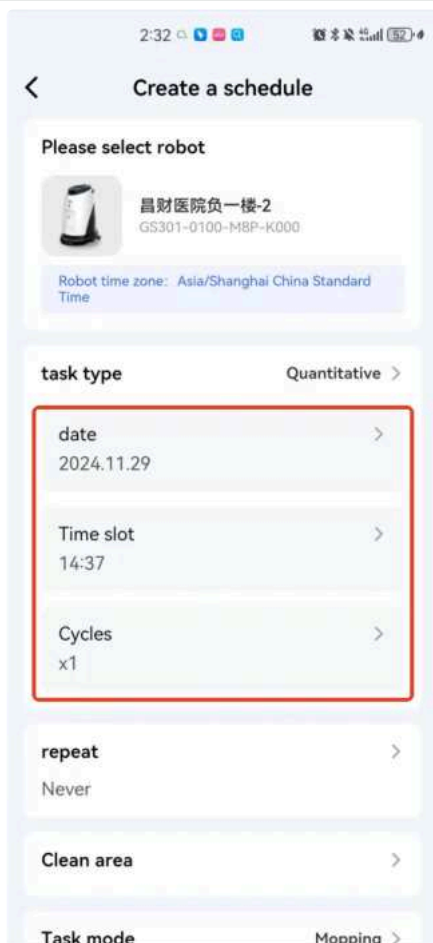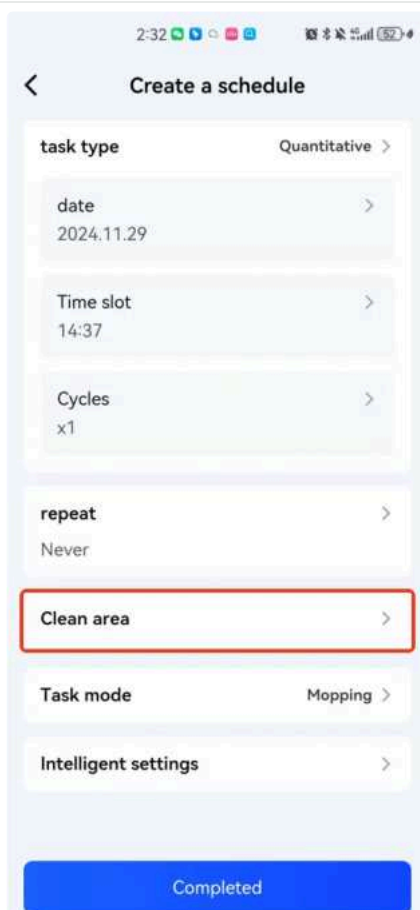
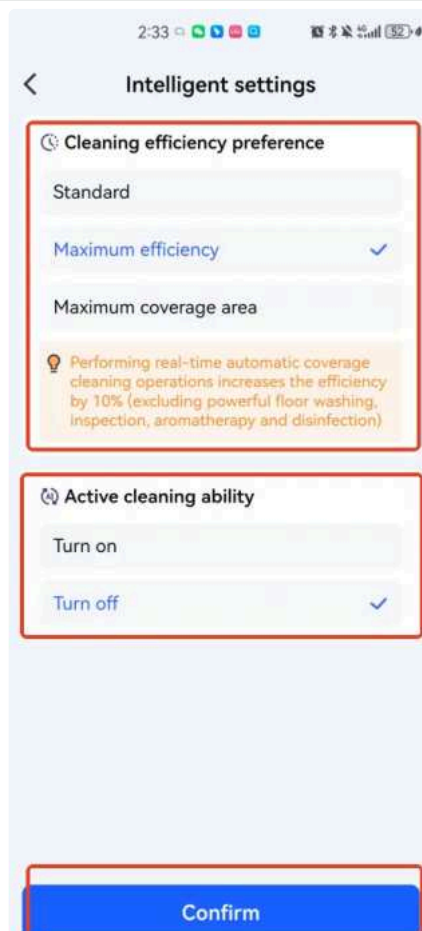| (9) Tap "Cleaning area".	(10) Tap "Select Location" to choose the map for the scheduling task; tap "Where to Clean" to select the area to be cleaned, and then tap "Confirm" after making your selection.
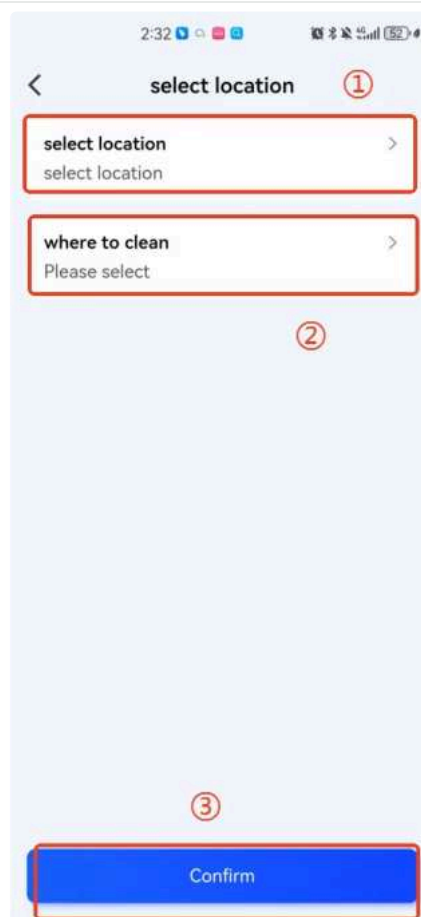
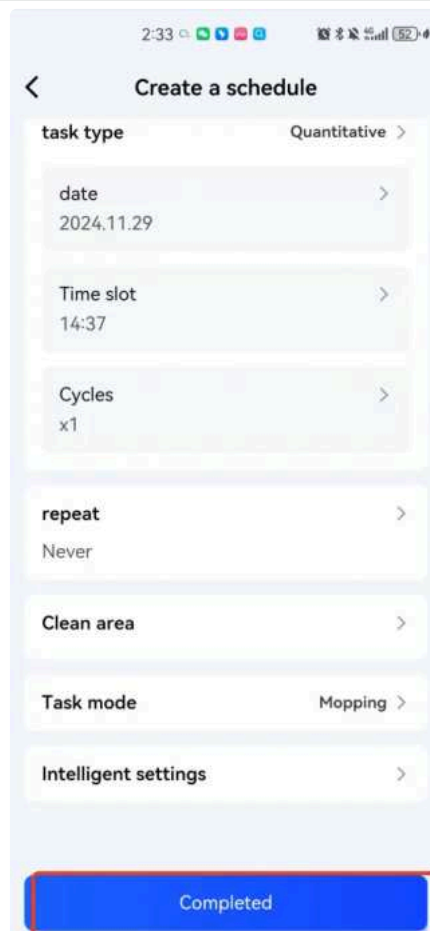| (11) Tap "Task Mode" to set the cleaning mode for the scheduling task.	(12) Tap "Intelligent Settings" to modify the cleaning efficiency.
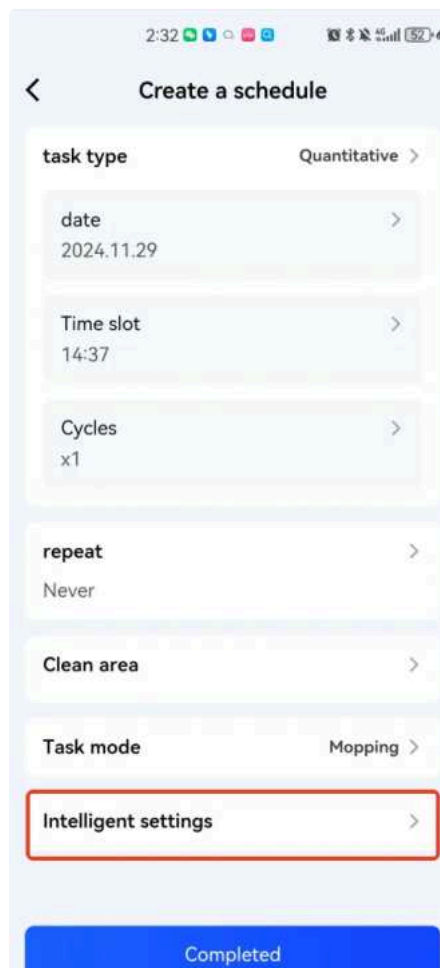
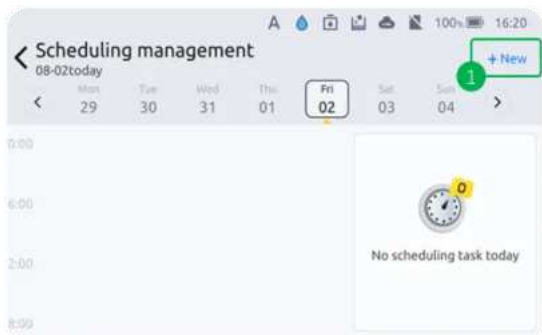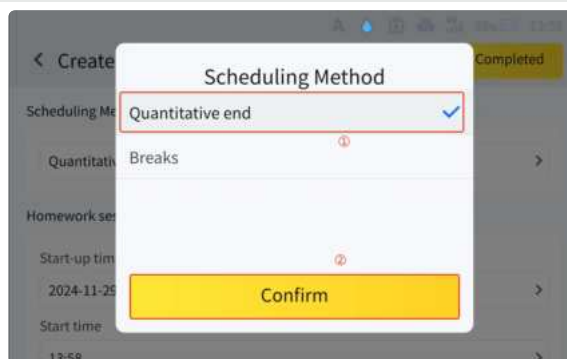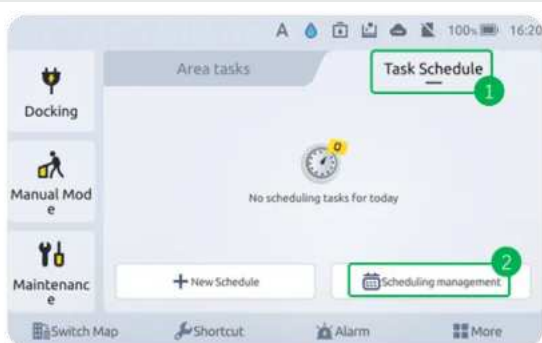| (13) Under the cleaning efficiency preference, you can choose between "Standard", "Maximum Efficiency" or "Maximum Coverage Area", you can also turn on or off the "Active cleaning ability". Tap "Confirm" after the setting is complete.	(14) Tap "Completed" to finish setting up the scheduling task.

11.2 Set up the Schedule through the Machine's Screen

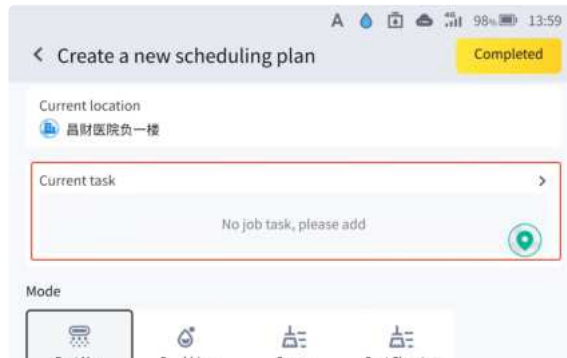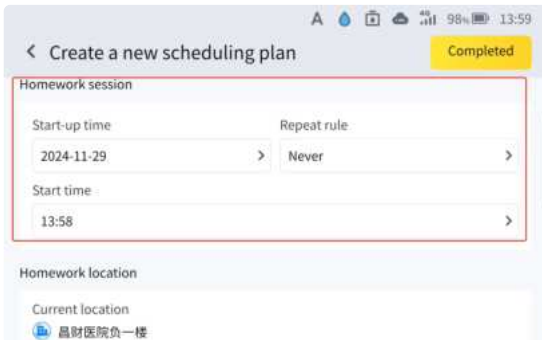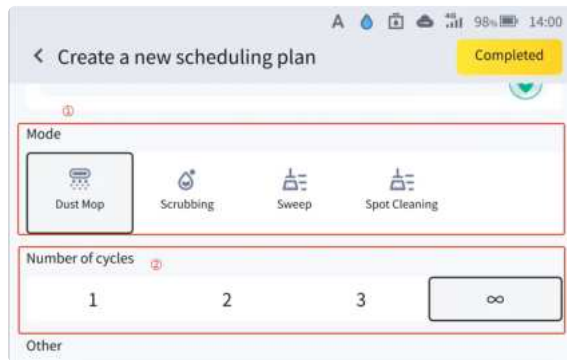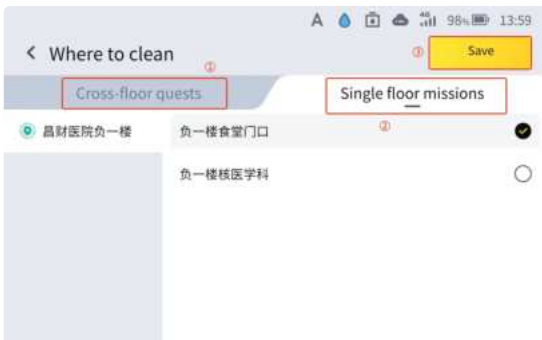| (1) ① Click "Task Schedule"; ② Click "New Schedule".	(2) Click "Scheduling Method"; select "Quantitative End" or "Breaks"; after making your selection, click "Confirm".

|	
(3) Set the operation period.	(4) Set the current task.
(5) Choose between cross–floor tasks or single–floor tasks; after making your selection, click "Save".	(6) ① Set the operation mode; ② Set the number of cycles; ③ Click "Completed".
(7) Click "Intelligent Settings".	(8) Under the "Cleaning Efficiency Preference", you can choose "Standard", "Maximum Efficiency" or "Maximum Coverage"; you can also turn on or off the "Proactive Cleaning Capability". After setting, click "Confirm".
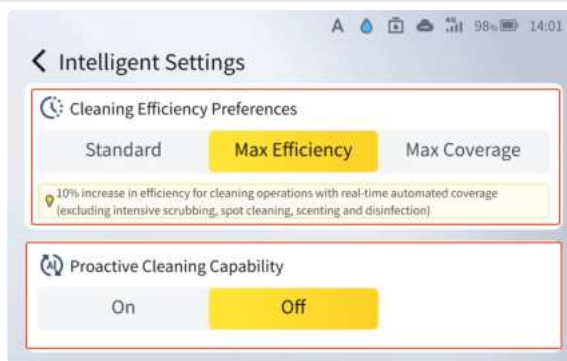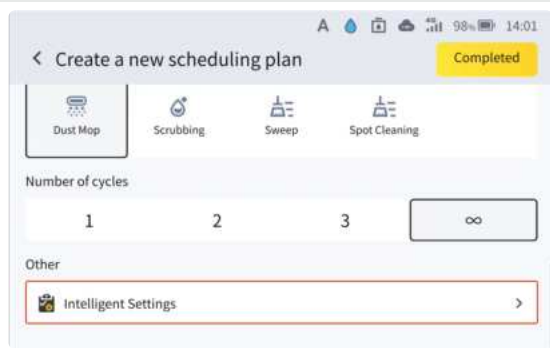
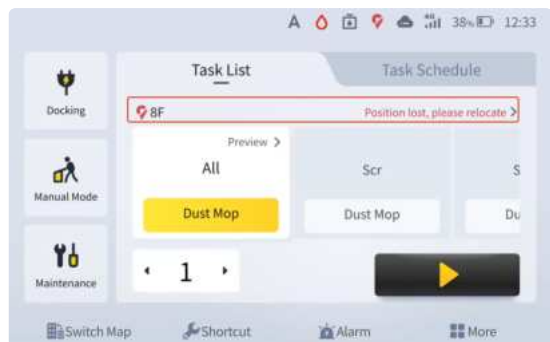(9) Click "Completed" to finish the scheduling task settings.
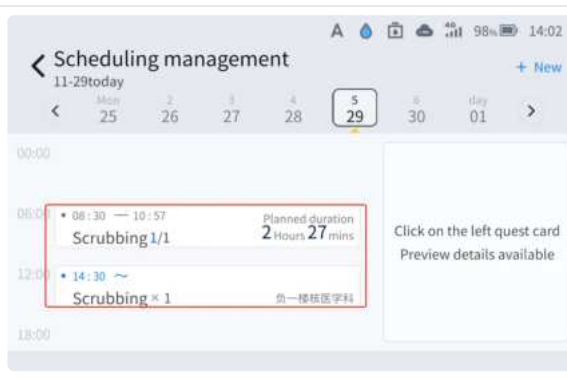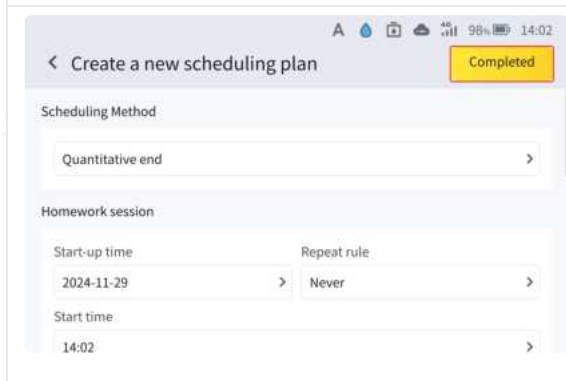
12. Relocation Positioning

12.1 Docking Positioning

(1) If the positioning goes abnormal or the machine completes a manual relacation, click "Position lost, please relocate".	(2) ① Select the map where the machine's current actual position is located; ② Click "Confirm".

(3) Upon seeing the "Robot is lost" prompt, click "Confirm".	(4) Follow the instructions on "Docking/ Select a point for positioning" to perform manual docking.
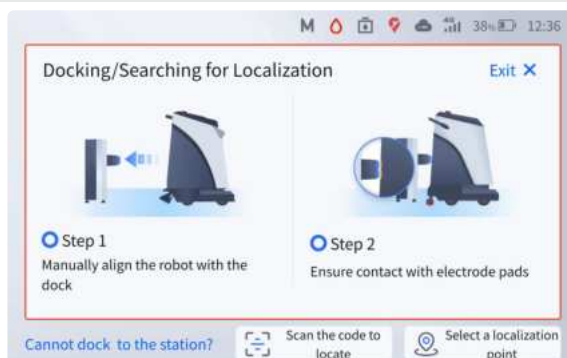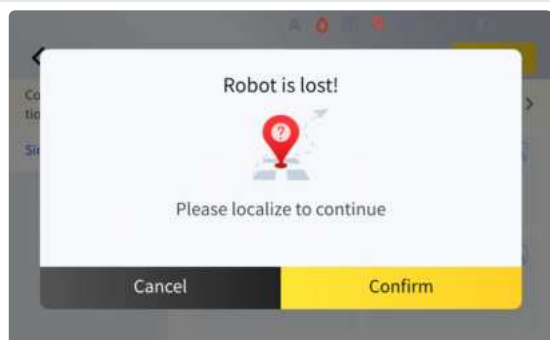
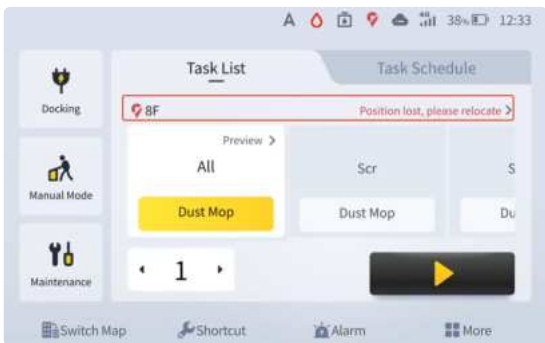|	
(5) Manually push the machine to the charging pile or workstation.	(6) Rotate the machine and align the charging electrode plates of the machine with those of the charging pile or workstation.
(7) Push the machine to make the charging electrode plates of the machine contact with those of the charging pile or workstation, and release your hands when the light strip of the machine and the charging station turn green.	(8) When the screen displays a "positioning success" message and you can hear the machine's voice prompt saying "Positioning successful," it indicates that the machine has successfully completed the initial positioning.
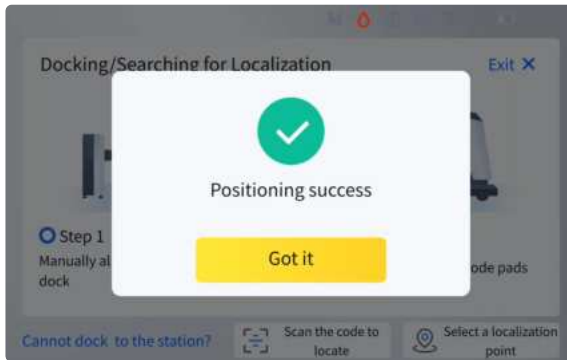
12.2 Select a Point for Positioning

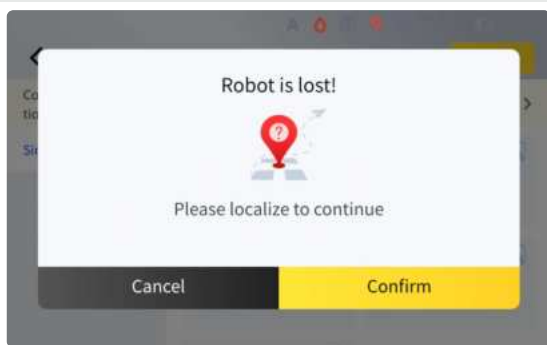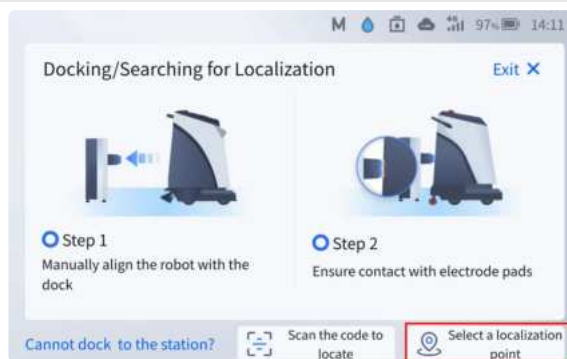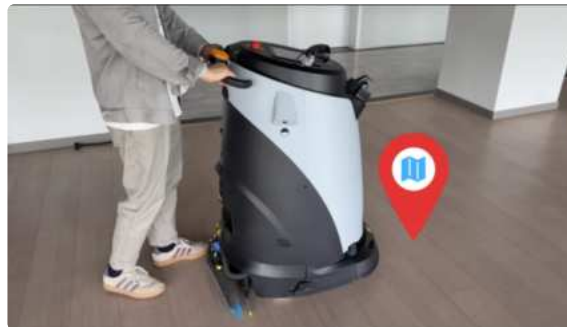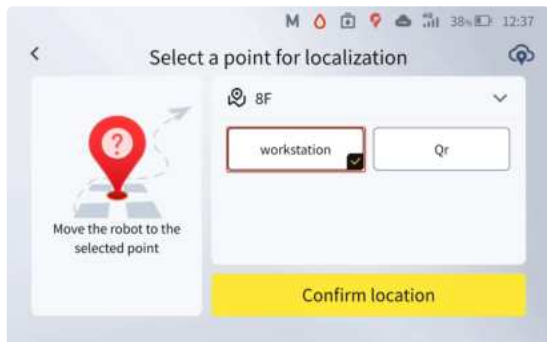|	
(1) If the positioning goes abnormal or the machine completes a manual relacation, click "Position lost, please relocate".	(2) ① Select the map where the machine's current actual position is located; ② Click "Confirm".
(3) Upon seeing the "Robot is lost" prompt, click "Confirm".	(4) Click on "Select a point for positioning".

|	
(5) Select the positioning point.	(6) Push the machine to the actual position where the positioning point is located.
(7) After moving the machine to the designated location, click "Confirm location".	(8) When the screen displays a "positioning success" message and you can hear the machine's voice prompt saying "Positioning successful," it indicates that the machine has successfully completed the initial positioning.
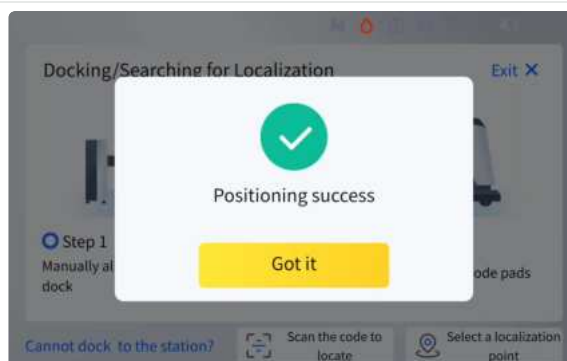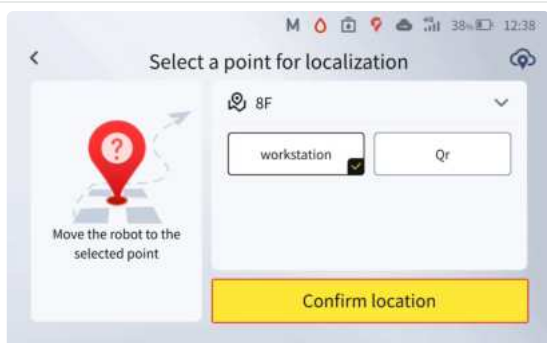
12.3 Scan QR Code for Positioning

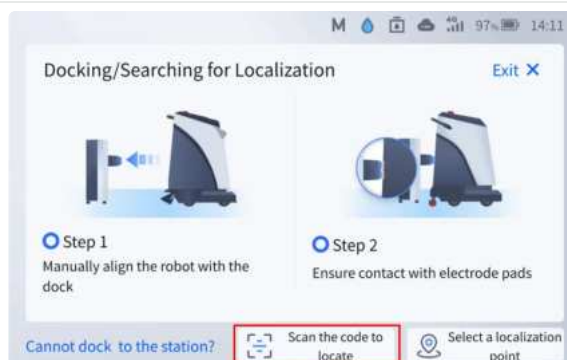|	
(1) If the positioning goes abnormal or the machine completes a manual relacation, click "Position lost, please relocate".	(2) ① Select the map where the machine's current actual position is located; ② Click "Confirm".
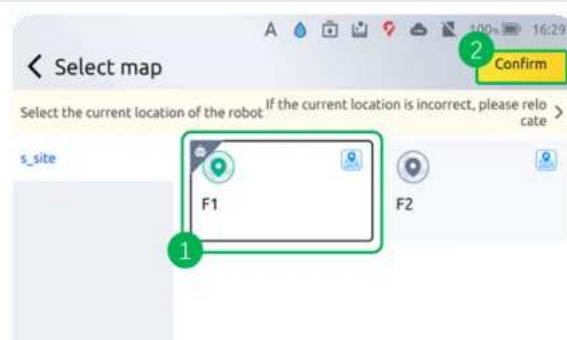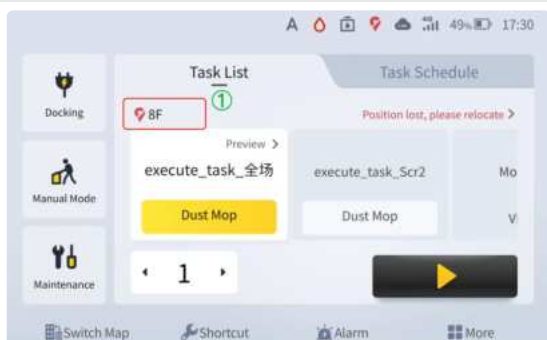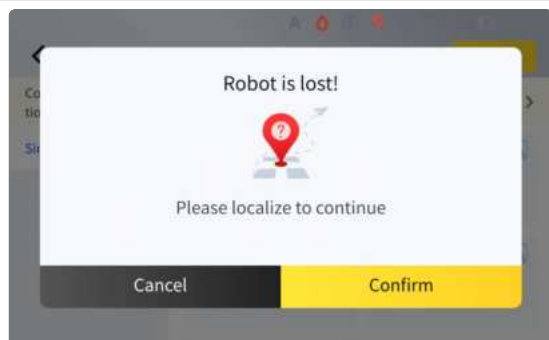
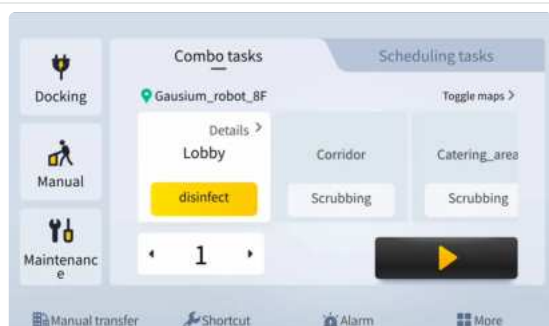| (3) Upon seeing the "Robot is lost" prompt, click "Confirm".	(4) Tap "Scan the code to Locate".
(5) Move the machine directly in front of the QR code, locate it 20–30cm away from the QR code, ensuring that the QR code is centered in the machine's screen view.	(6) When the screen displays a "positioning success" message and you can hear the machine's voice prompt saying "Positioning successful," it indicates that the machine has successfully completed the initial positioning.
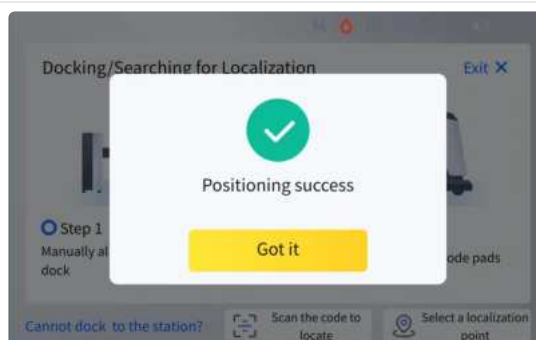
13. Check the Alarms

(1) If the screen is locked, you need to log in with the password first, then click on "Alarm" in the bottom right corner.	(2) If the machine is operating normally, there will be no alarm messages; if there is an abnormality with the machine, alarm messages will appear.

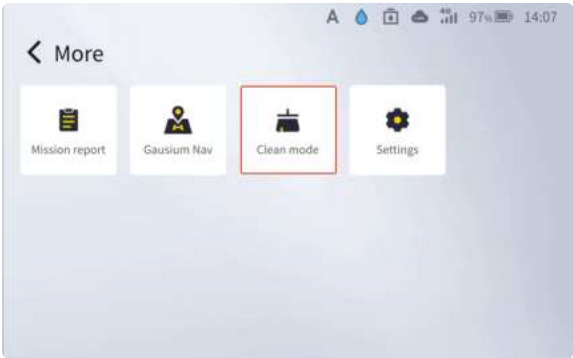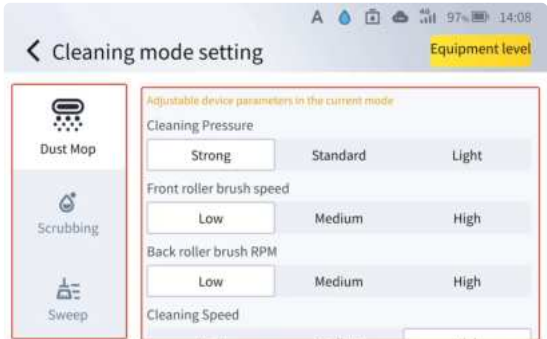| (3) When the machine triggers an abnormal alarm, there will be a red pop–up at the bottom of the screen. Click "View Details" to quickly check the alarm information.	

14. Set Cleaning Mode

(1) Tap the "More" button.	(2) Tap the "Cleaning Mode".
(3) You can set the cleaning parameters for different cleaning modes, and click Save after setting them up.	(4) Tap the "Equipment Level" button to enter this interface and set specific parameters.