

# Operation Guide

## Scrubber 50

Produced by  
After-sales Operation Center

# Operation Guide

Gausium is the only commercial service robot company in cleaning industry with ISO9001 international certification, China robot CR certification, United States UL safety certification and Europe CE safety certification. Up to now, Gausium has provided 200 million kilometers' cleaning services for more than 2,000 customers in over 40 countries and regions around the world. Gausium is one of the companies with the most outstanding implementation capability in the field of commercial mobile robot and autonomous driving.

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## Document History

Edition	Contents	Reviser	Date	Approved	Approver	Approval date
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# Operation guide | Appearance

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## **[Front Tilt Camera]**

Obstacle avoidance and obtain real-time colored pictures.

## **[Zhongcai Camera]**

Obstacle avoidance and obtain real-time colored pictures.

## **[Horizontal Laser]**

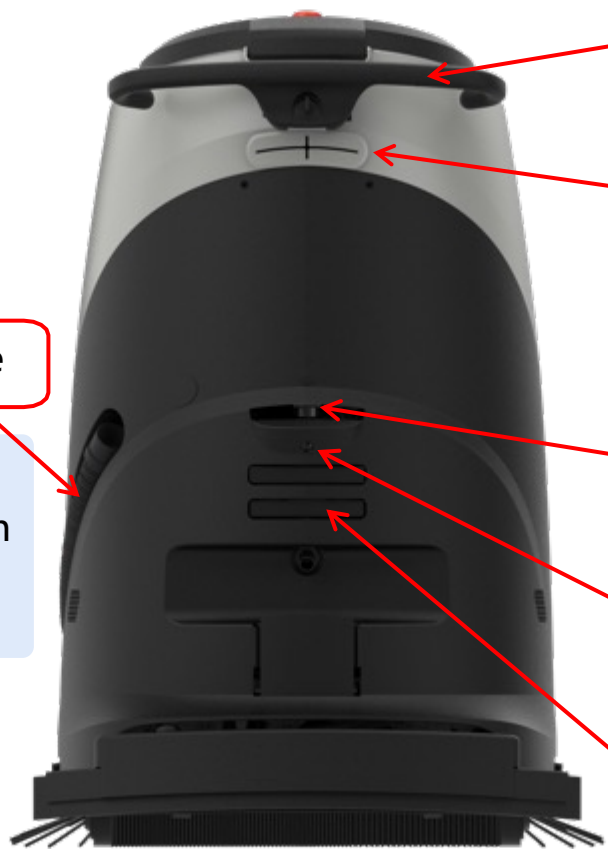
Detect obstacles ahead.

## **[Bumper]**

Buffer for crash to avoid secondary damage.

# Operation guide | Appearance

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Push-handrail

## **[Push-handrail]**

Push robot to move.

Water Inlet

## **[Water Inlet]**

Fill water tank with clean water.

Manual Drain Pipe

## **[Drain Pipe]**

Drain water from waste water tank.

rear Laser

## **[rear Laser]**

Obstacle avoidance

rear Zhongcai  
Camera

## **[ rear Zhongcai Camera]**

Obstacle avoidance and obtain real-time colored pictures.

Charging Port

## **[Electrode connector]**

Connect with the workstation to charge the robot.

## [Emergency Stop Button]

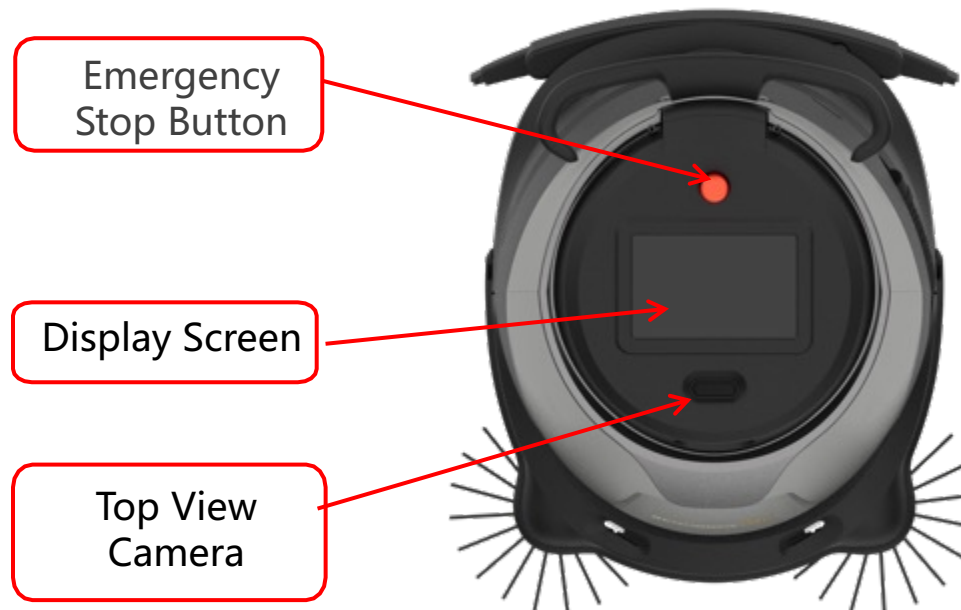
To stop robot immediately when pressing it.

## [Display Screen]

Setup the parameters of the robot.

## [Top View Camera]

Build map and assist positioning



### 1. Turn on the circuit breaker

The circuit breaker is under the chassis. If the switch is hard to toggle, it is already turned on, otherwise, it is turned off (toggling the switch towards the back of the robot to turn it on).



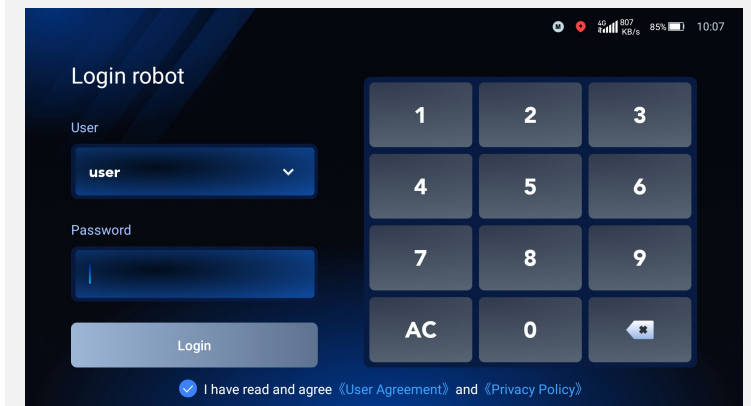
### 2. Turn on the robot with the key

Insert the key and turn counterclockwise to turn it on.



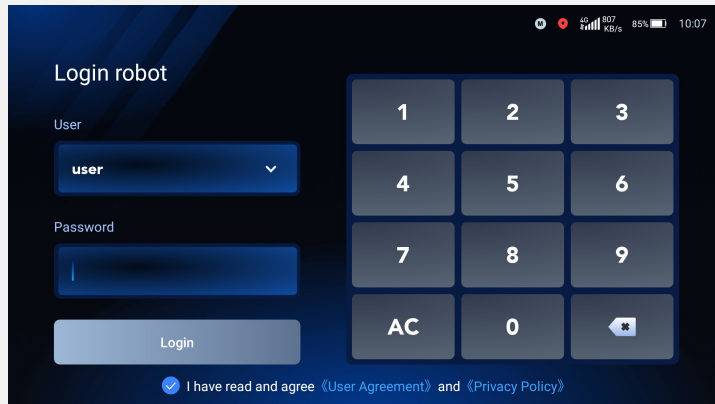
### 3. Wait

Wait about 30 seconds. During the process, robot will check its health status.



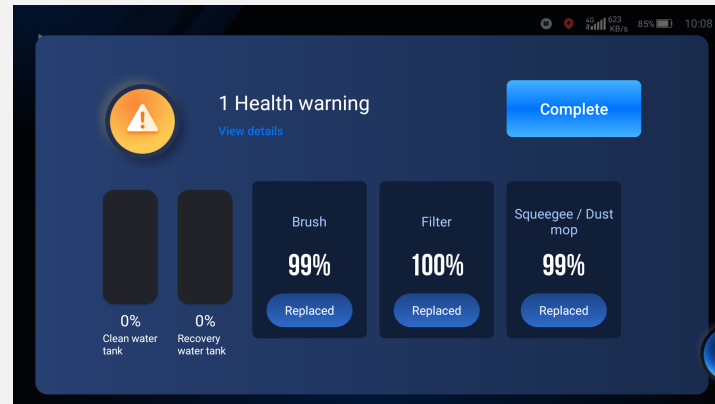
## 4. Select an account and log in

Select the user account and enter the password (the default password is 123456).



## 5. View the health status

When there is no abnormality, click Complete. When there are warnings, view the details and try to solve the problems.



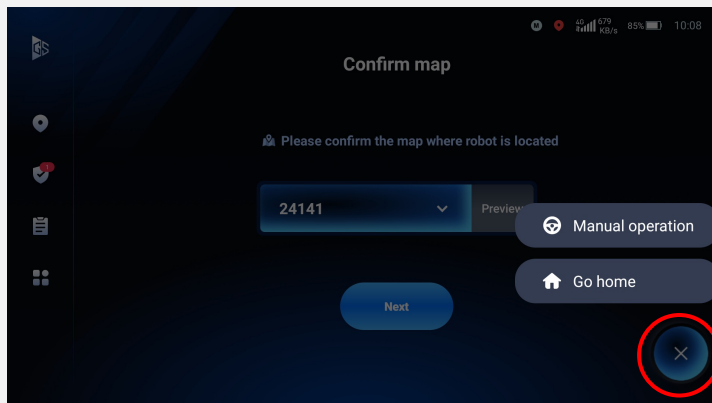
## Note: Cannot solve the problems?

Please contact our engineer. We will provide service as soon as possible.



## 1. Switch to manual mode

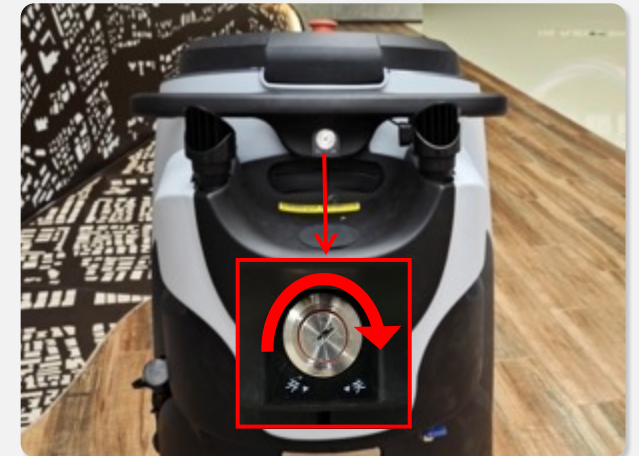
Click the semicircle in the lower right corner of the screen, and the semicircle will turn into a circle. Click the circle and click Manual Mode to enter the manual operation mode.



## 2. Push the robot to a storage place.



## 3. Use the key to power off the robot and wait for the screen off. Turn off the circuit breaker.



## **Precautions for long-term storage:**

If you need to store the robot for a long time, please do as follows:

Drain the clean and waste water, turn off the circuit breaker under the chassis, remove the filter bag of the waste water tank, the steel wire filter, the filter bottle of the clean water tank, the filter cartridge and the squeegee.

Wash and clean above components, store them together with water tank cover in a dry and ventilated place.

## 1. Push the robot to the charging dock

Switch to manual mode, then push the robot to the charging dock.



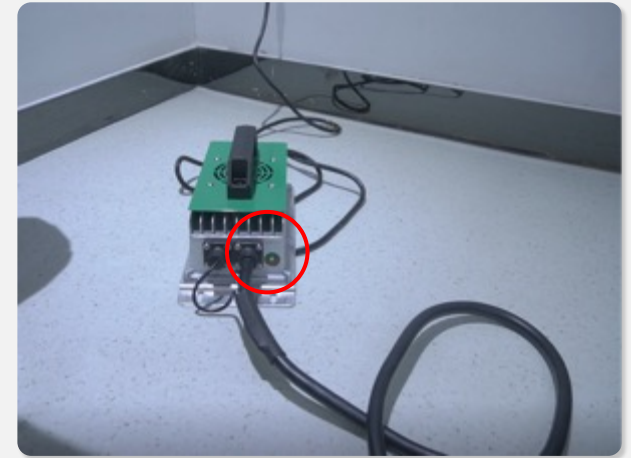
## 2. Start charging

First insert the red plug of the charger into the red charging port of the robot, and then insert the power plug of the charger into a 220-volt power socket. A red light on the charger will flash. A green light means fully charged.



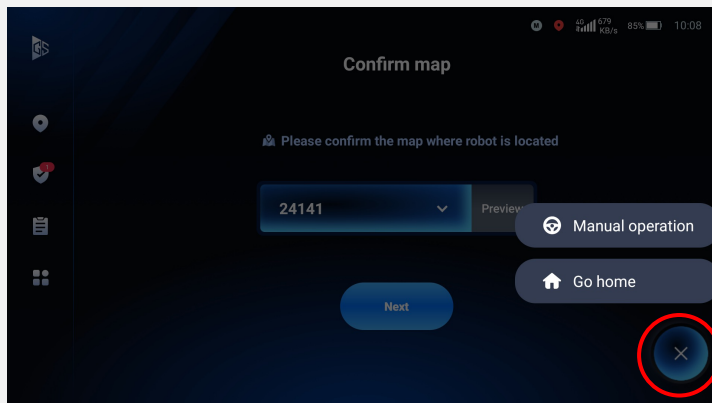
## 3. Finish charging

When the light turns green, remove the 220-volt power plug from the socket first and then remove the red plug.



### 1. Switch to manual mode

Click the icon in the lower right corner of the screen to switch to manual mode.



### 2. Push the robot to the drainage point



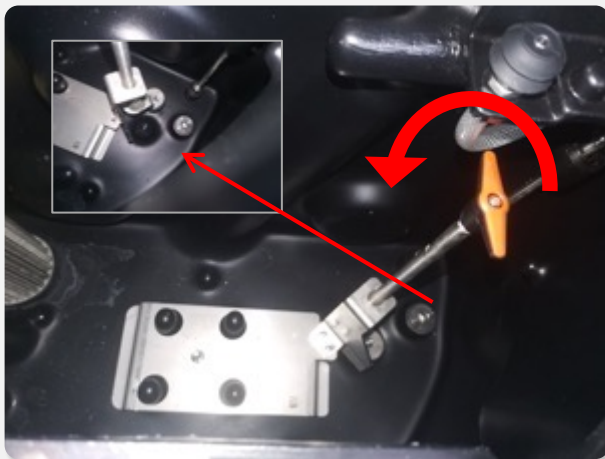
### 3. Take out the drain pipe

Open the cover of the drain pipe (note: open the cover and turn the pipe upward), and then quickly drain the water. After draining finishes, make sure that the water pipe is covered tightly.



## 4. Drain clean water tank

After draining the waste water tank, open the top cover, pull up the drain handle in the clean water tank, and rotate it 90° counterclockwise. Water in the clean water tank will flow into the waste water tank. Drain the waste water tank.



## 5. Screw back the handle

After emptying the clean water tank, please screw back the drain handle of the clean water tank to block the water outlet.



## 6. Restore the drain pipe

Put the cover of the pipe on, make sure it is plugged tightly.



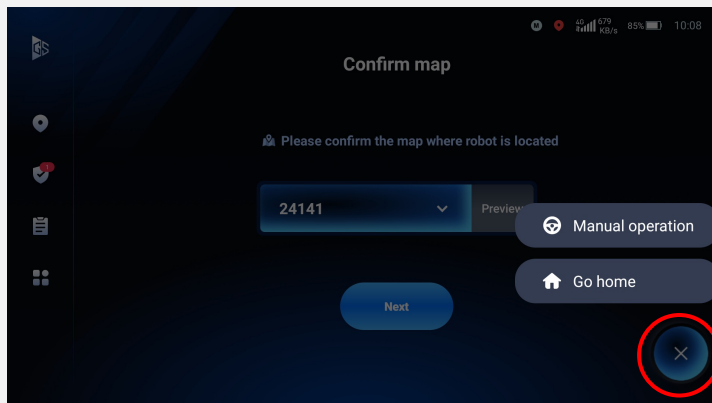


# Operation guide | Add/Drain Water Manually

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## 1. Switch to manual mode

Click the icon in the lower right corner of the screen to switch to manual mode.



## 2. Push the robot to the water filling place



## 3. Open the upper cover

Lift out the cleaning fluid tank.



## 4. Fill with clean water

Put the water pipe into the water tank first, then turn on the tap, and wait for the water tank to be filled. (During the process, please hold the water pipe and do not loosen it, so as not to spill it outside the water tank and cause short circuit in the robot). When the water level reaches the highest float in the clean water tank, turn off the tap and drain the water pipe before taking it out.



## 5. Close the upper cover

Put the cleaning fluid tank back.



# Operation guide | Adding Cleaning Fluid

Scrubber 50

## 1. Open the cover

Open the upper cover and take out the white cleaning fluid tank.



## 2. Add cleaning fluid

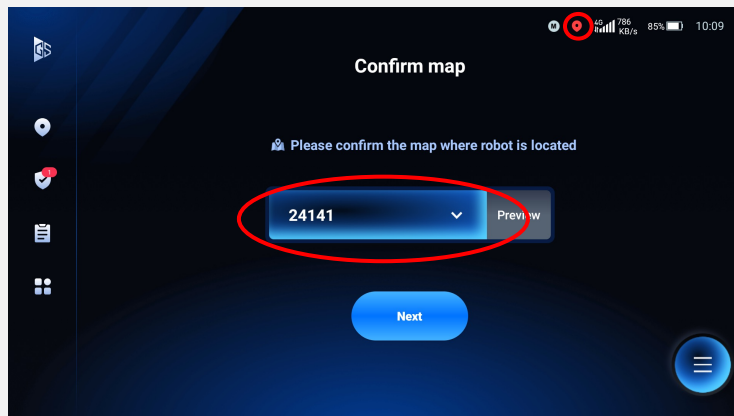
Use a measuring cup to add 200-500ml neutral cleaning solution to the cleaning fluid tank (FOFILIT degreaser is recommended), and then add water until the cleaning fluid tank is full.





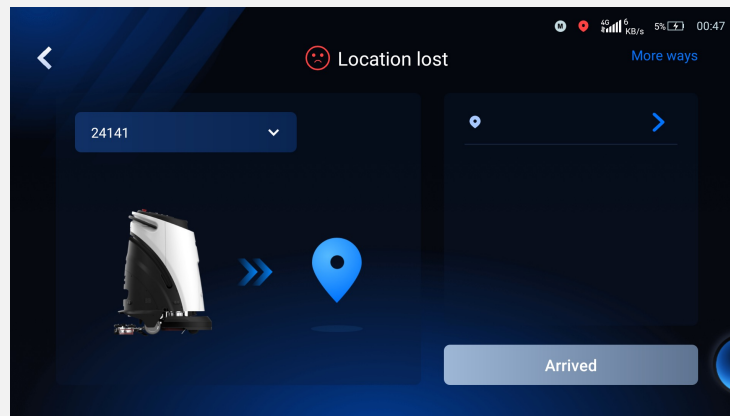
## 1. Check the map and position

Match the current map with the current operating environment, and the positioning icon in the upper right corner of the screen is white.



## 2. Go home

Click the semicircle icon in the lower left corner of the screen, click "Go home" and "Workstation".



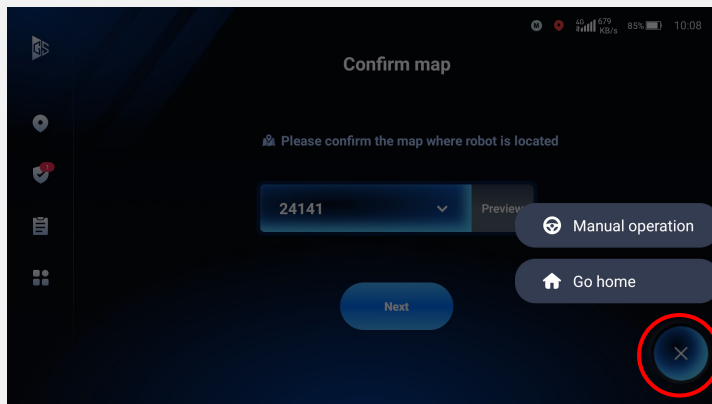
## What will robot do?

It will go to the workstation, add, drain water and charge automatically. The screen will show real-time power and water level. After draining, adding water and charging are completed, robot will continue the unfinished task.



## 1. Push the robot back to the workstation or charging dock

Click the icon in the lower right corner of the screen to switch to manual mode. Push the robot to the workstation or charging dock.



## 2. Check the map and complete manual docking

Click the map of the environment where the robot is currently located. After the robot is aligned with the water inlet of the workstation and the charging electrode, push the robot gently from the front to make the charging electrodes fully contacted with each other. Keep pushing the robot until the workstation light strip to turn green.



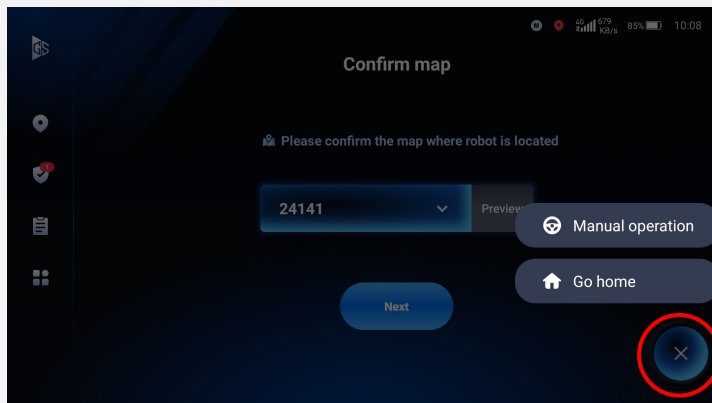
## 3. Confirm the position

Wait for the robot positioning icon on the display screen to turn white, and the manual docking is completed.



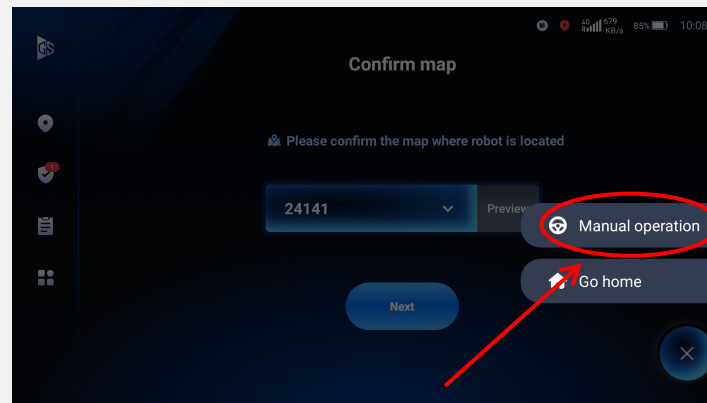
### 1. Switch to manual mode

Click the icon in the lower right corner of the screen to switch to manual mode.



### 2. Select a cleaning mode

Click the preset mode on the right side of the screen and choose scrubbing or dust mopping (you can also click the mode setting on the left side of the screen to make personalized adjustments). Click "Start" .



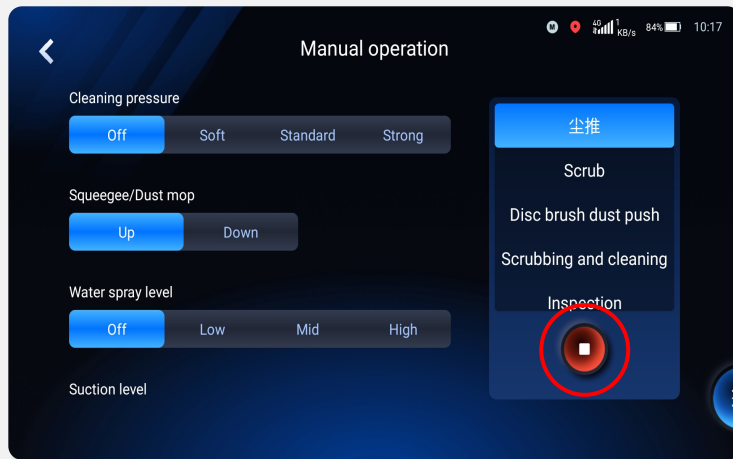
### 3. Clean manually

Manually push the robot in the cleaning area for cleaning.



### 4. Finish the cleaning task

Click the red button to end the manual operation.



### 5. Clean up the residual water

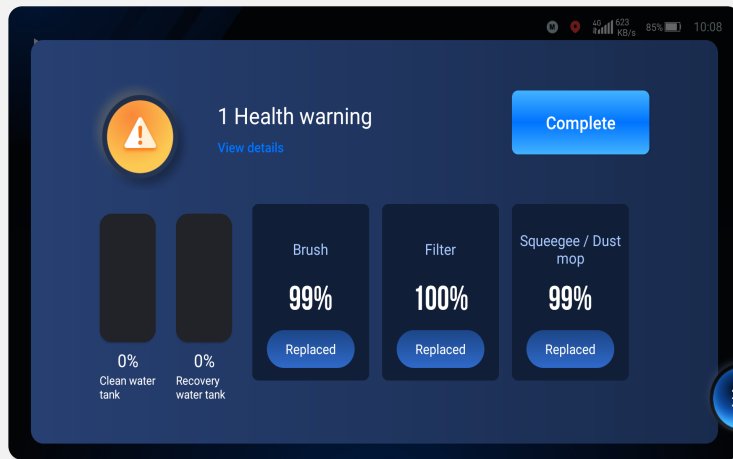
After the manual operation is completed, the residual water needs to be cleaned up. Pushed the robot forward for a certain distance (at least the distance of one robot body).

Wait for the robot to clean the residual water. When the squeegee is lifted, you can click the return button in the upper left corner to complete the entire operation.



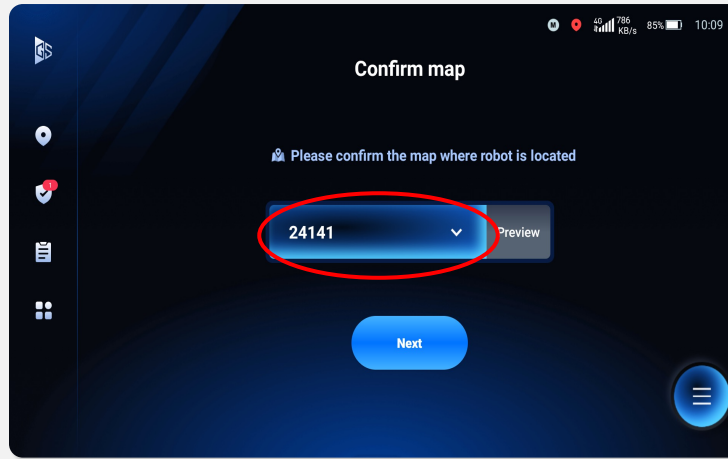
## 1. Check the clean water tank and waste water tank

Make sure the clean water tank is full and the waste water tank is empty.



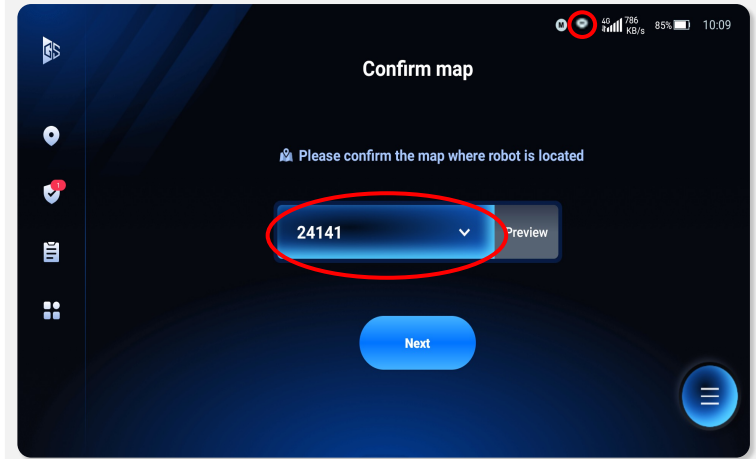
## 2. Check the map

Check whether the map corresponds to the actual area. If the robot can take the elevator by itself, you don't need to check the map.



## 3. Check the location

Check whether the location is correct and the location icon is white. (If the icon is red, please refer to page 18 for a manual docking operation)  
Then click "Next" to select tasks.

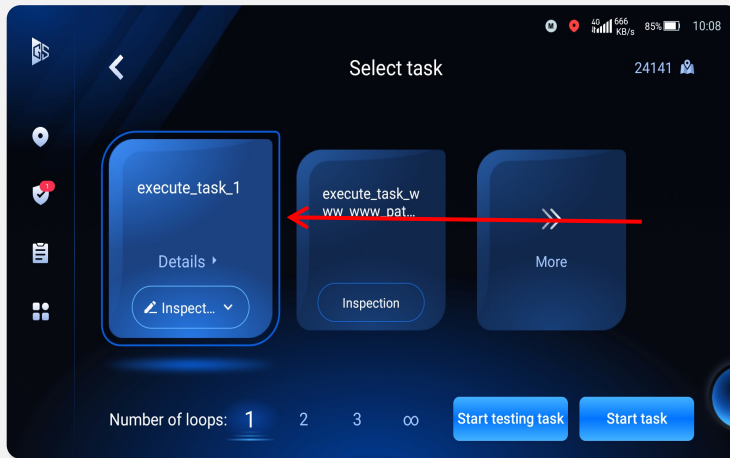


## 4. Select cleaning tasks

On the task selection screen, swipe the screen left or right to find tasks.

You can check the cleaning area of the task by its name.

After selecting a task, click on "Details", and swipe the screen or use your fingers to zoom in/out on the map to view the detailed cleaning area of the task. If the cleaning area is what you want, click "Return".



## 5. Select cleaning mode

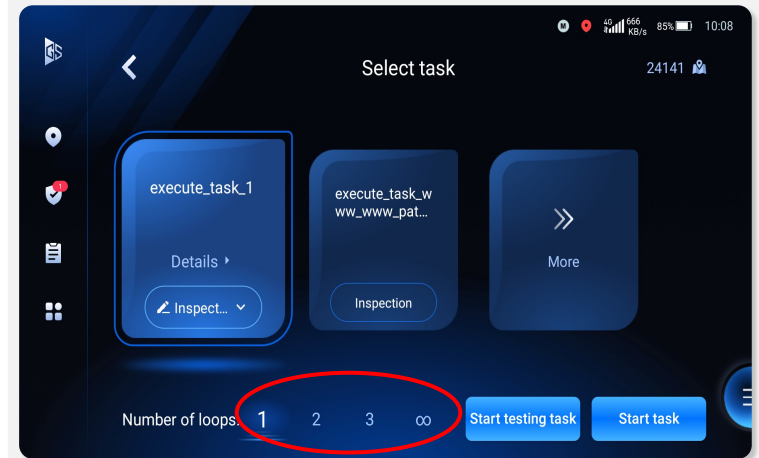
Click "Dust mopping" or "Scrubbing" under "Details" to select the cleaning mode. Then click "Confirm".



## 6. Select the number of cycles

Click on the number of cycles at the bottom of the screen to select the number of loops the task will be executed (for example, if you only want to clean once, just select 1).

Click on "Start" to start automatic operation. When you select a task, confirm that it meets your needs and start the task, the robot will run to the task area and start automatic operation.





### A. Pause

Press down the red emergency stop button to pause the current task during auto operation.  
Then click on the screen to cancel the reset.



### B. Continue

Click "Start" to resume the paused task.  
If the screen prompts that the emergency stop button has been pressed down, click "Confirm", press the red emergency stop button, and the robot will continue to execute the current task.



### C. End

To abort the auto operation in advance, click "End" after pausing the task.  
Then click "Confirm".



### A. When a task completes

A task report will show that the task is completed.

The robot will clean the remaining water and then lift up the squeegee.



### B. When a task suspends

The screen will show if an unfinished task is ended manually.

The robot will clean the remaining water and then lift up the squeegee.

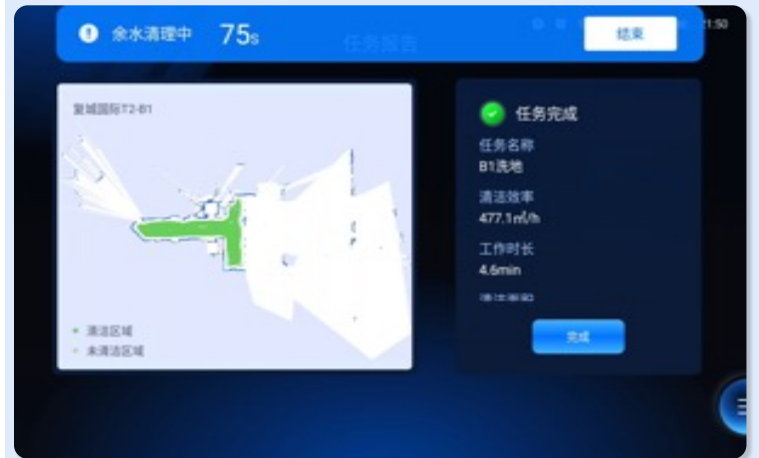


### Note: Task report

Whether the automatic operation is completed or manually terminated, you can swipe or zoom in on the left map in the task report to view the cleaning status of this task (dark green is the cleaned area, light green is the uncleaned area).

You can also swipe up and down the right side of the report description to view more detailed information such as cleaning efficiency, area and water consumption.

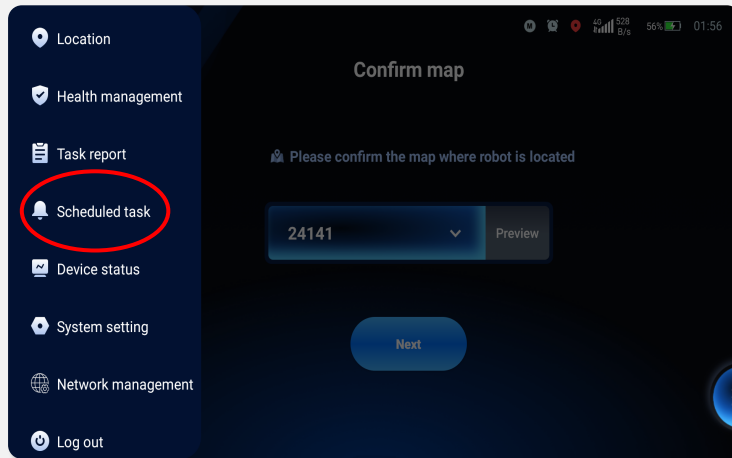
Click "Finish" .





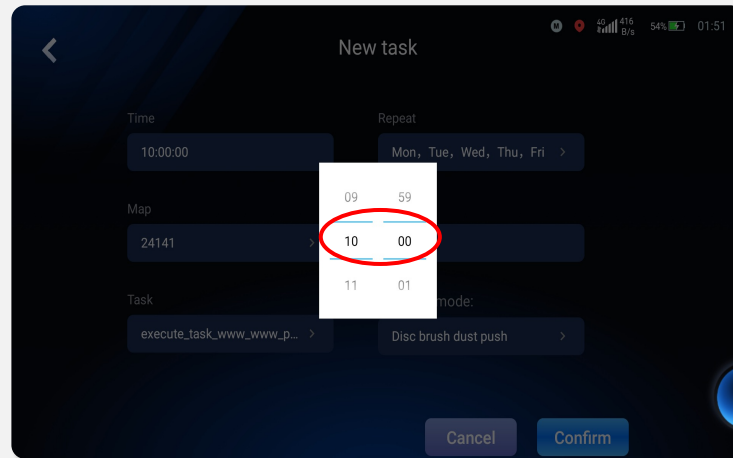
## 1. Create a scheduled task

Click on the sidebar, select "Scheduled task", and click "New" to enter the scheduled task interface (when there is no task set in the timed task, the "New" icon is in the middle of the screen; when there is already a scheduled task, the "New" icon is in the lower right corner of the screen).



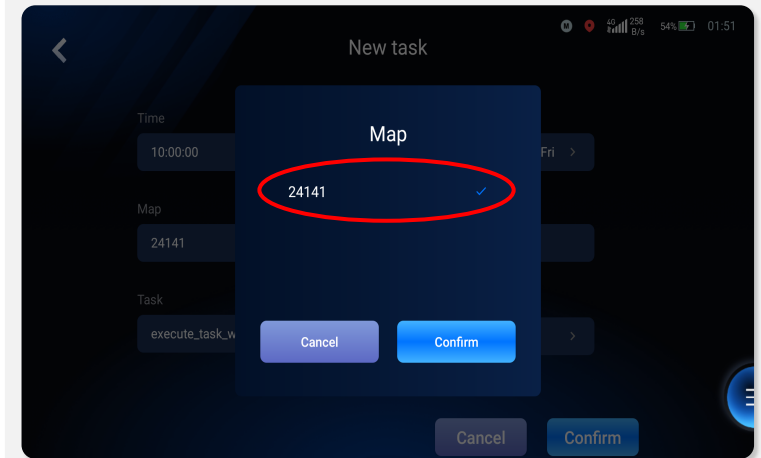
## 2. Set the time

Set the date and time of the task. Click anywhere else on the screen to complete.



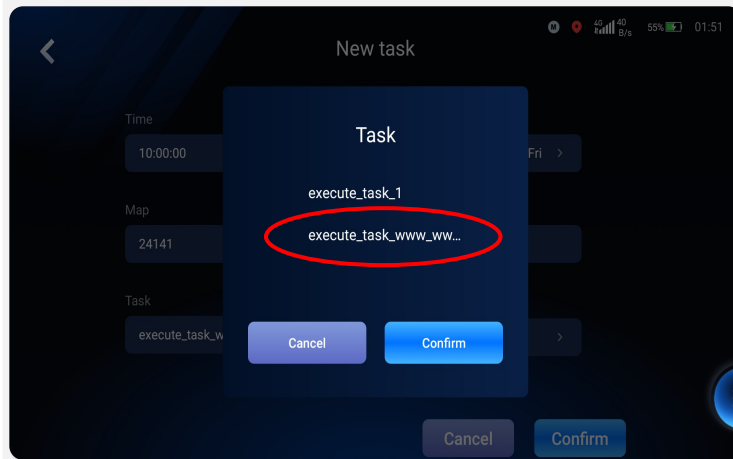
## 3. Select map

Click on the option box to set the area (for example, if you want a scheduled task on the B1 floor, you can swipe the screen and select B1 floor).



## 4. Set the mode

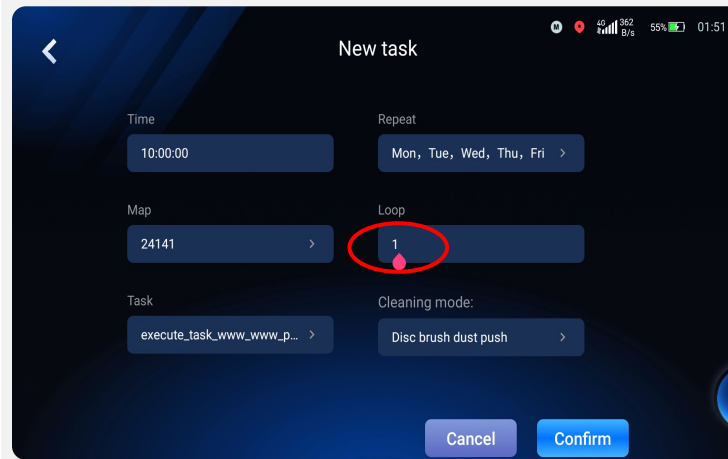
Click on the option box to set the mode. For example, if you want the robot to scrubber the floor in the afternoon, you can swipe the screen to view the existing cleaning tasks, and select a specific cleaning task.



## 5. Set the number of cycles

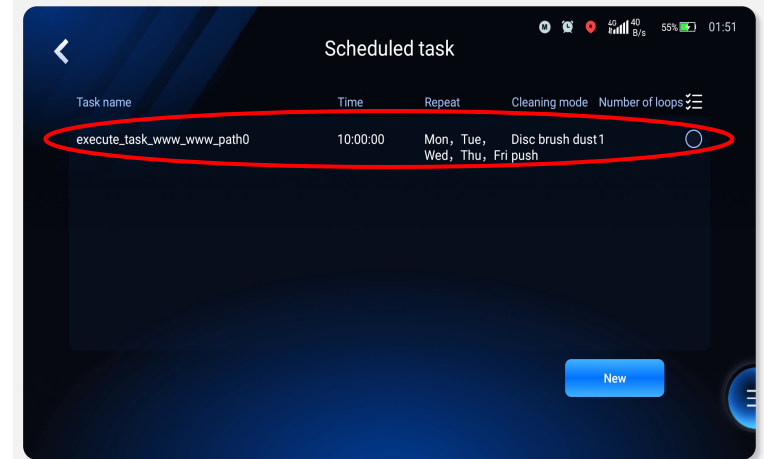
Click the option box to set the number of loops the cleaning task will be executed (enter the number "1" to operate the task just once).

Note: Click the arrow on the right to retract the keyboard.



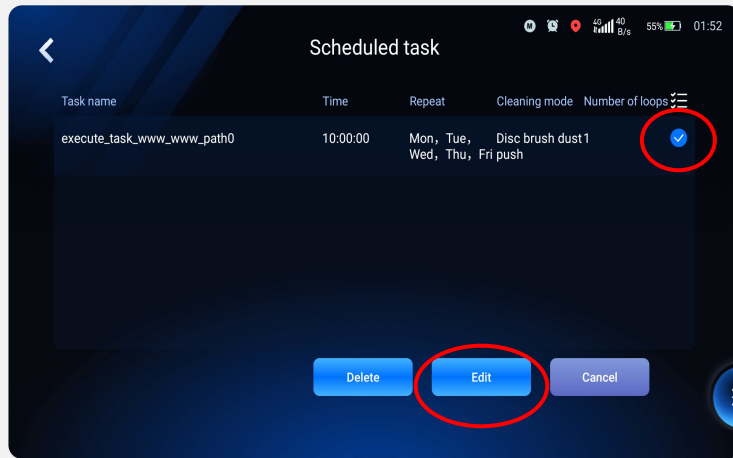
## 6. Complete

After the above settings, the robot will execute cleaning tasks every Monday to Friday at 14:30 pm .



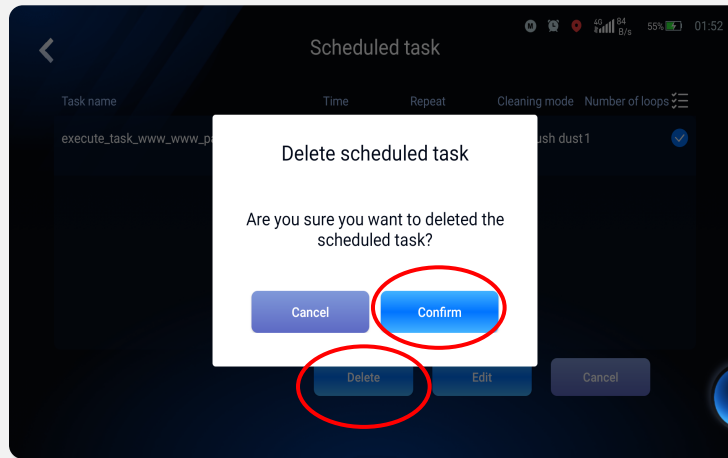
## A. Modify scheduled tasks

If you want to adjust the task from 14:30 to 15:30 every Monday to Friday, choose the task, click "Edit", then adjust the time, and finally click "Confirm".



## B. Delete scheduled tasks

Choose the task, click "Delete" and "Confirm".



# Operation guide | Switch cleaning mode

Scrubber 50

## Note: Different operating modes require different roller brushes

Scrubber 50 has two operating modes: dust mopping and scrubbing. Different operating modes require different roller brushes.

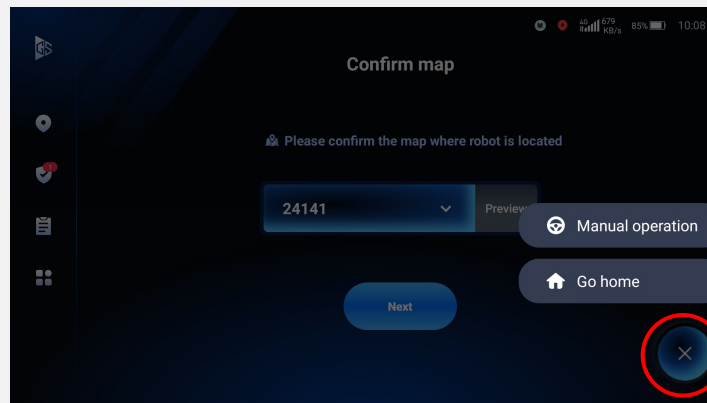
Dust mopping mode: the front roller brush should be a V-shaped roller brush, and the rear roller brush needs to be a cloth brush.

Scrubbing mode: the front roller brush should be a V-shaped wire brush, and the rear a cylindrical wire brush



## 1. Push the robot to the maintenance point during manual operation

Click the icon in the lower right corner of the screen and switch to manual operation. Then push the robot to the maintenance point.



## 2. Open the left and right side covers and take out the roller brush

Pull outward to open the left and right covers, pinch the yellow silicone cap of the roller brush and pull it out, then you can take out the roller brush that needs to be replaced.



### 3. Install appropriate roller brushes corresponding to the operating mode

Push the roller brush until it reaches to the end of the robot. Then, release the yellow silicone cap at the end of the roller brush, check whether it is installed in place, and finally close the side cover.



Bring service robots to every part of the world!