

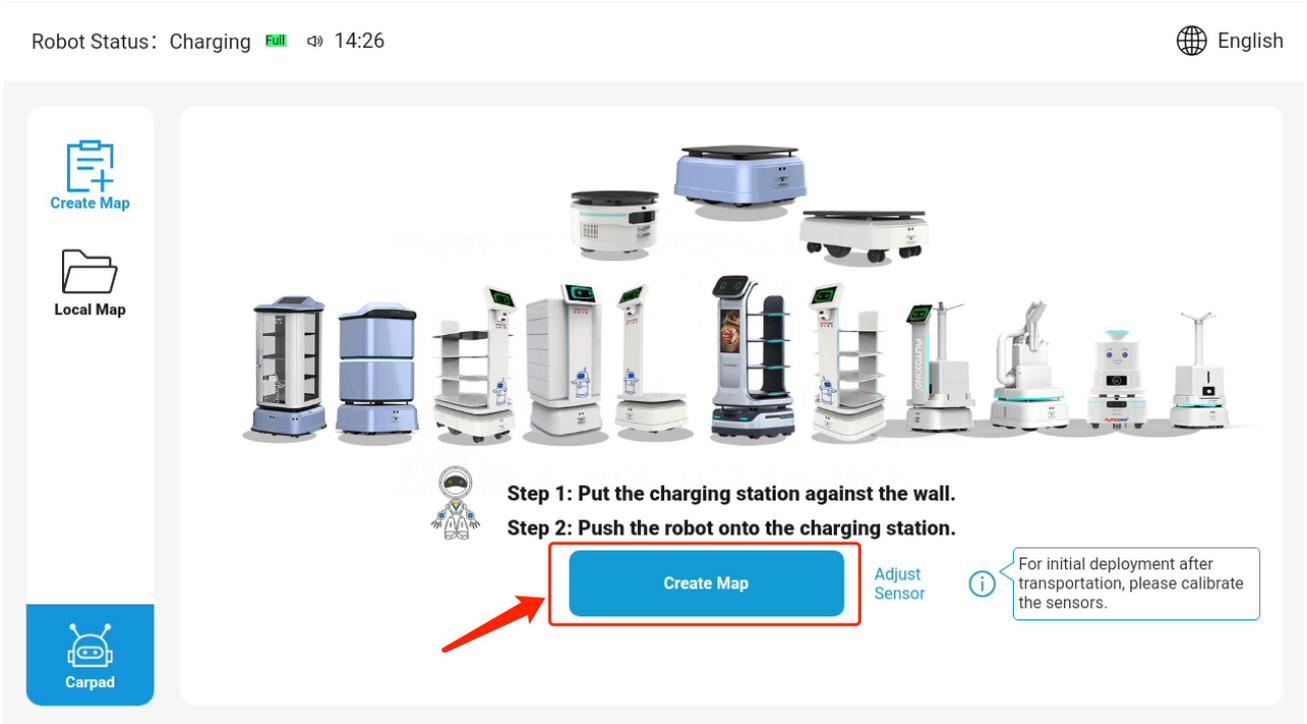
# Mapping tool usage documentation

Current version: v1.0.1

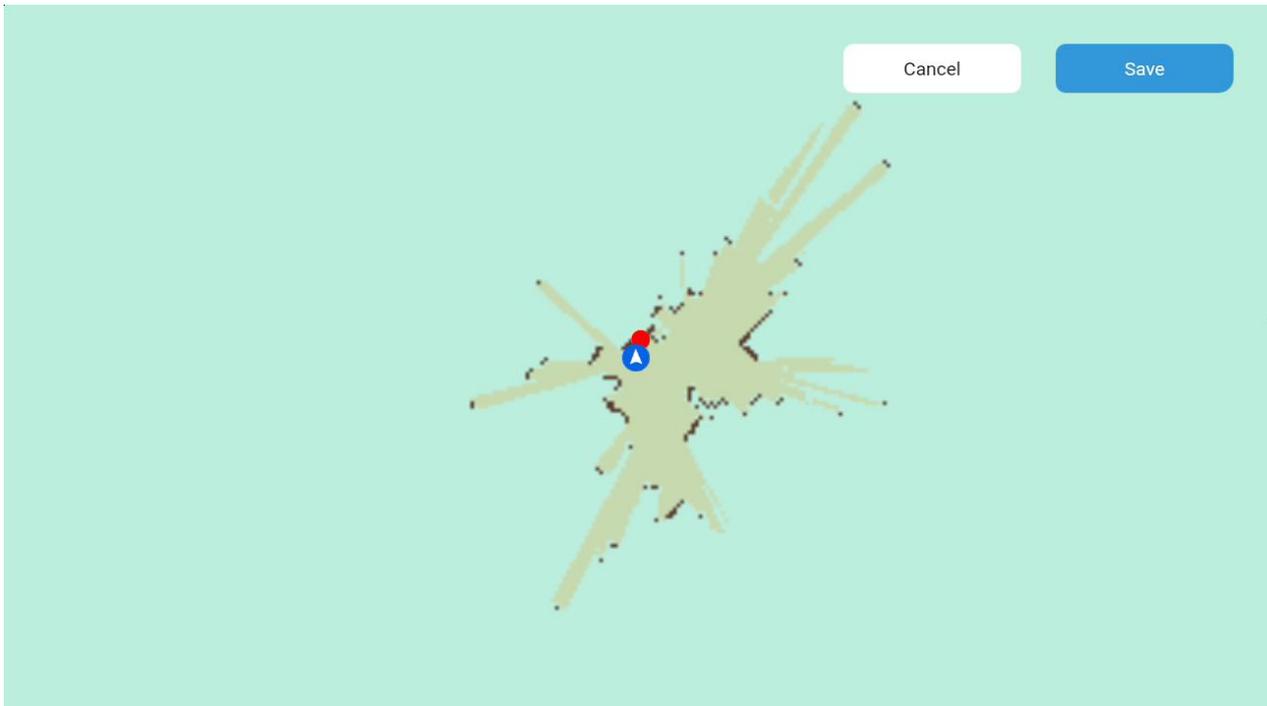
Date of writing: 2023-07-14

# I. Rapid deployment

## 1. Create a map



Step1: Push the robot to the charging pile, then click the "Create Map" button and read the map construction notes.



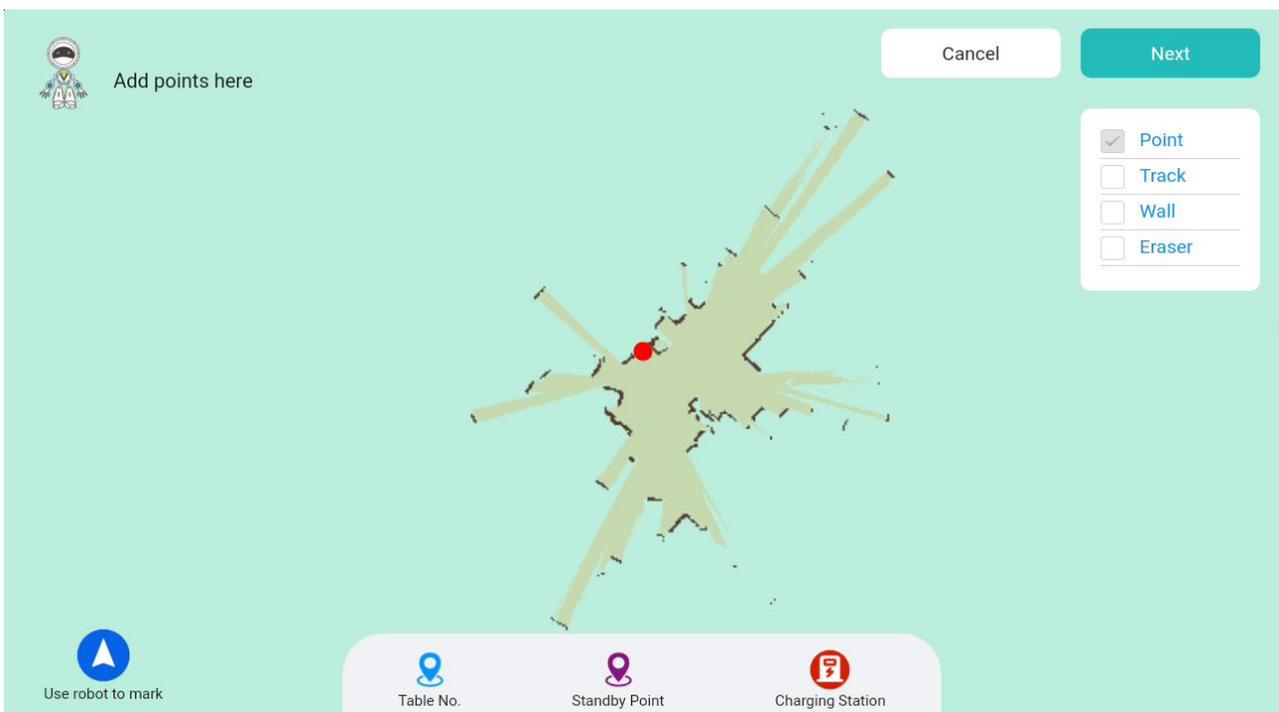
Step2: After the red point (charging pile) is loaded, the robot can be pushed to scan the map.

Ps: try to scan the map completely at one time, and remember to ensure that the map loops when scanning (when the intersection and the map are merged, turn 3 times in situ).



Step3: After scanning the map, push it back to the charging pile, click the "Save" button and enter the map name and floor.

## 2.Add points



Step1: Add points, and choose the method of adding points that suits you according to the prompt information.

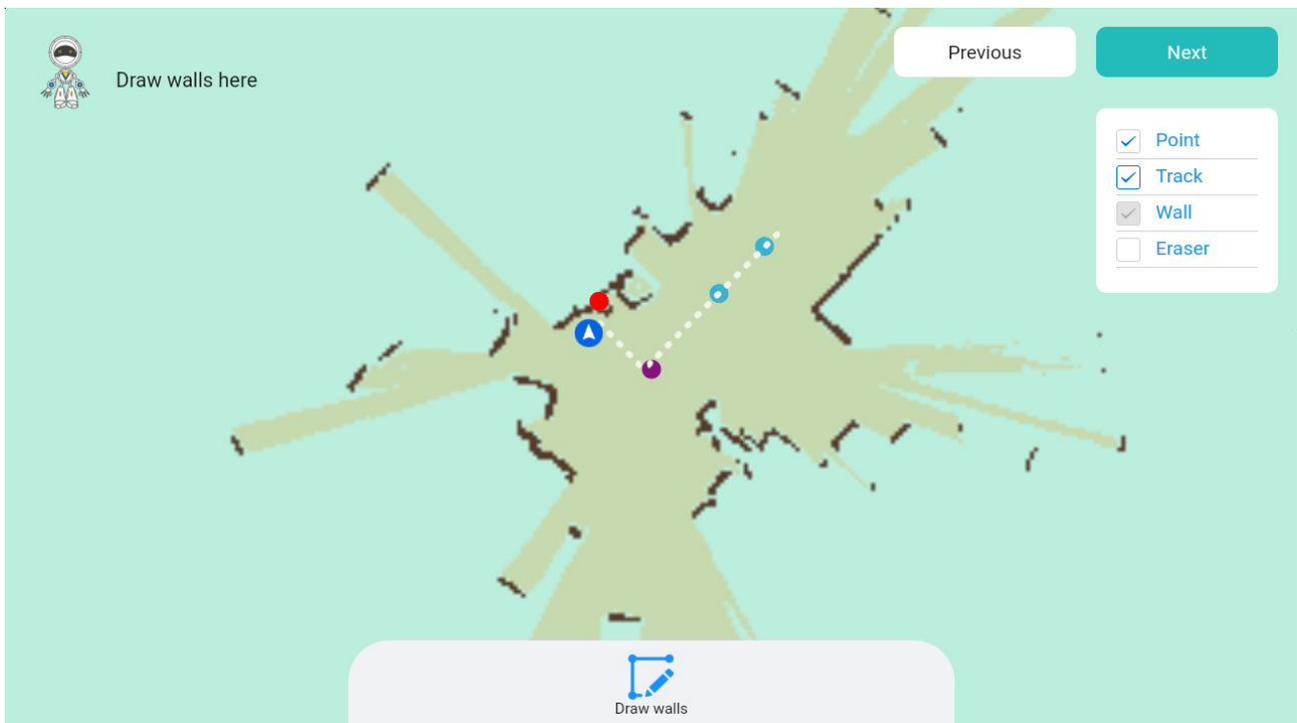
Use robot mark: After pushing the robot to a suitable position, click to add a point, and the point will be added at the current position.

Use the cross map: the center of the screen displays a crosshair, and you can add a point at a suitable position by dragging the map.

Step2: Enter point name

Ps: To ensure that the robot can perform tasks smoothly, it is recommended to add at least 1 Table No, 1 Standby, and 1 Charging Station. After selecting a point, you can move the position, adjust the point angle, delete the point and modify the name

### 3.Draw track



Step1: Click the bottom button "Draw Track" to enter the drawing mode.

Ps: Just click on the screen to generate endpoints, and the robot will automatically connect lines according to the added endpoints to form a virtual track.

Step2: After the drawing is complete, click the bottom button "End Drawing"

Ps: After the line segment is selected, the "virtual track" can be deleted;

After selecting the line segment, select "Endpoint" again, and click the "Snap" button at the bottom again to snap the endpoint to the nearest line segment.

#### 4. Draw wall



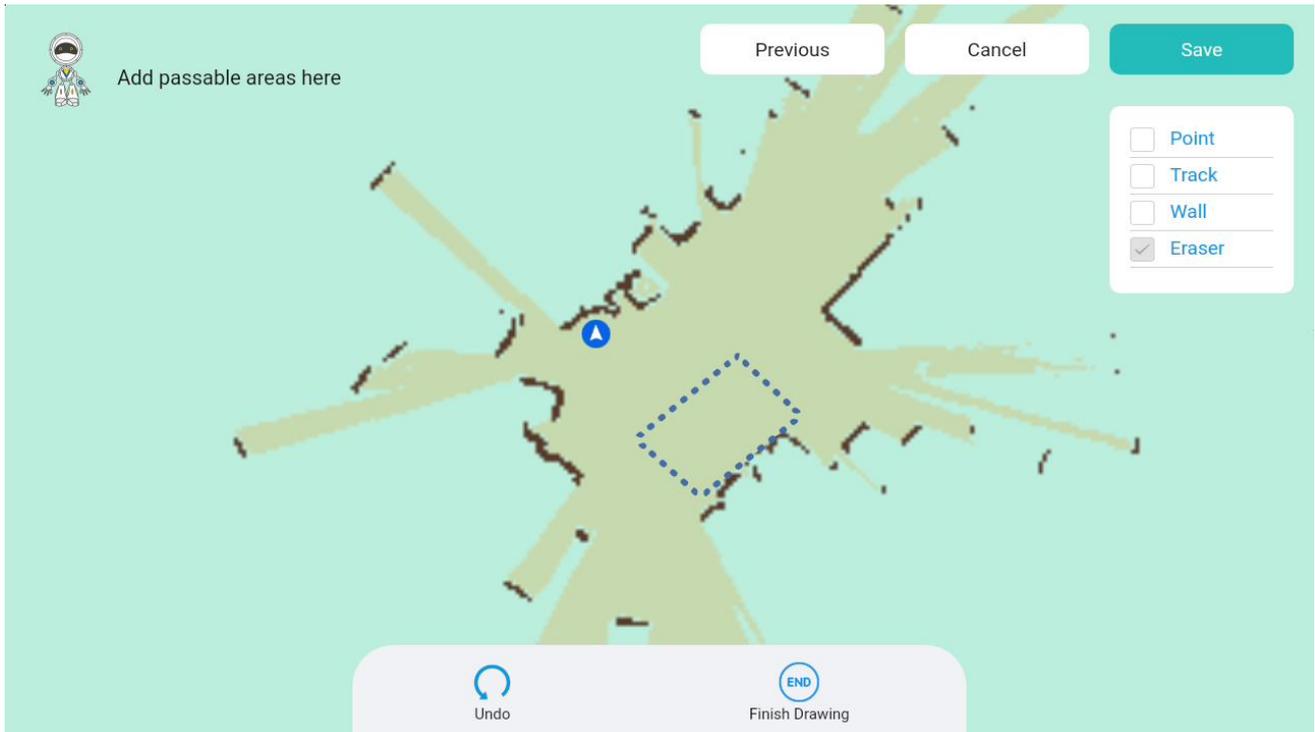
Step1: Click the bottom button "Draw No Walking Wall" to enter the drawing mode

Ps: Just click on the screen to generate endpoints, and the robot will automatically connect lines according to the added endpoints to form a virtual wall

Step2: After the drawing is complete, click the bottom button "End Drawing"

Ps: After the forbidden wall is selected, the forbidden wall can be deleted

#### 5. Clear noise



Step1: Click on the "Draw traversable area" button at the bottom

Ps: Just click on the screen to generate endpoints, and the robot will automatically connect lines according to the added endpoints to form a passable area;

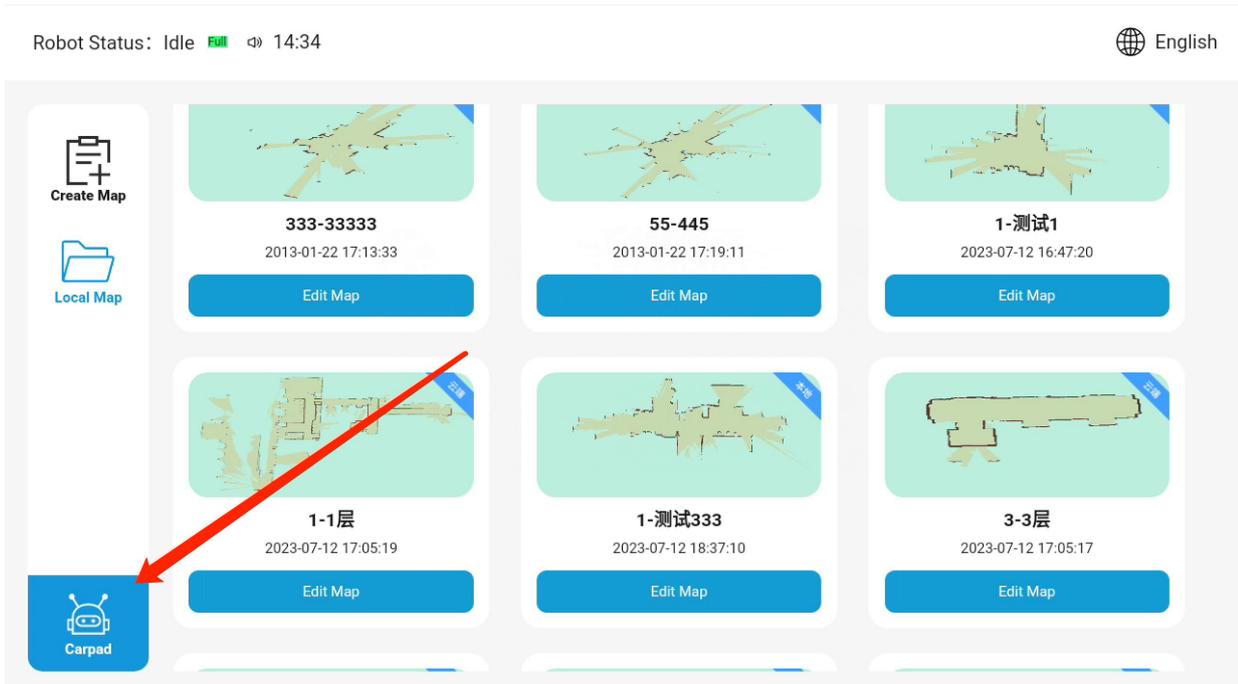
After selecting the area, you can drag the area, and then select the endpoint again to adjust the shape of the area and cover the area with noise.

Step2: After drawing, click "End Drawing".

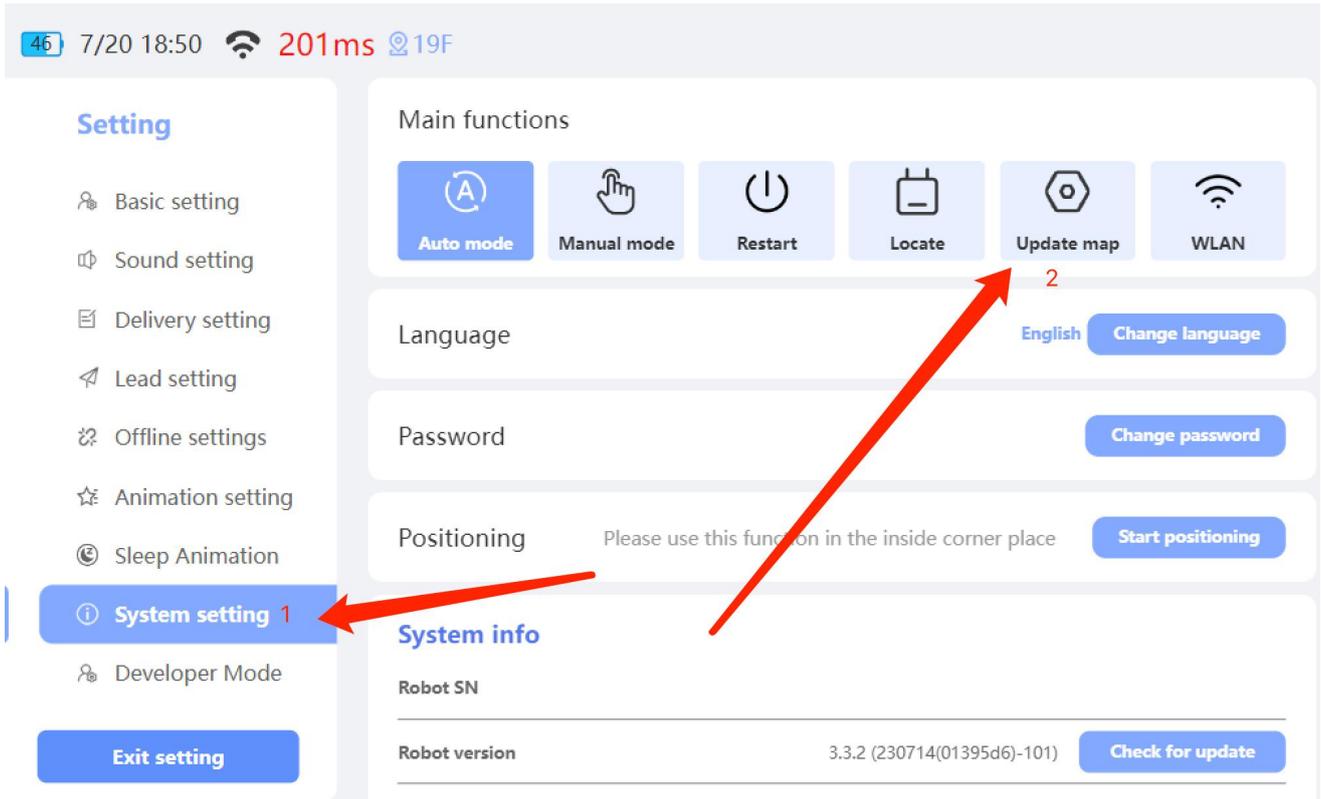
6.Update map



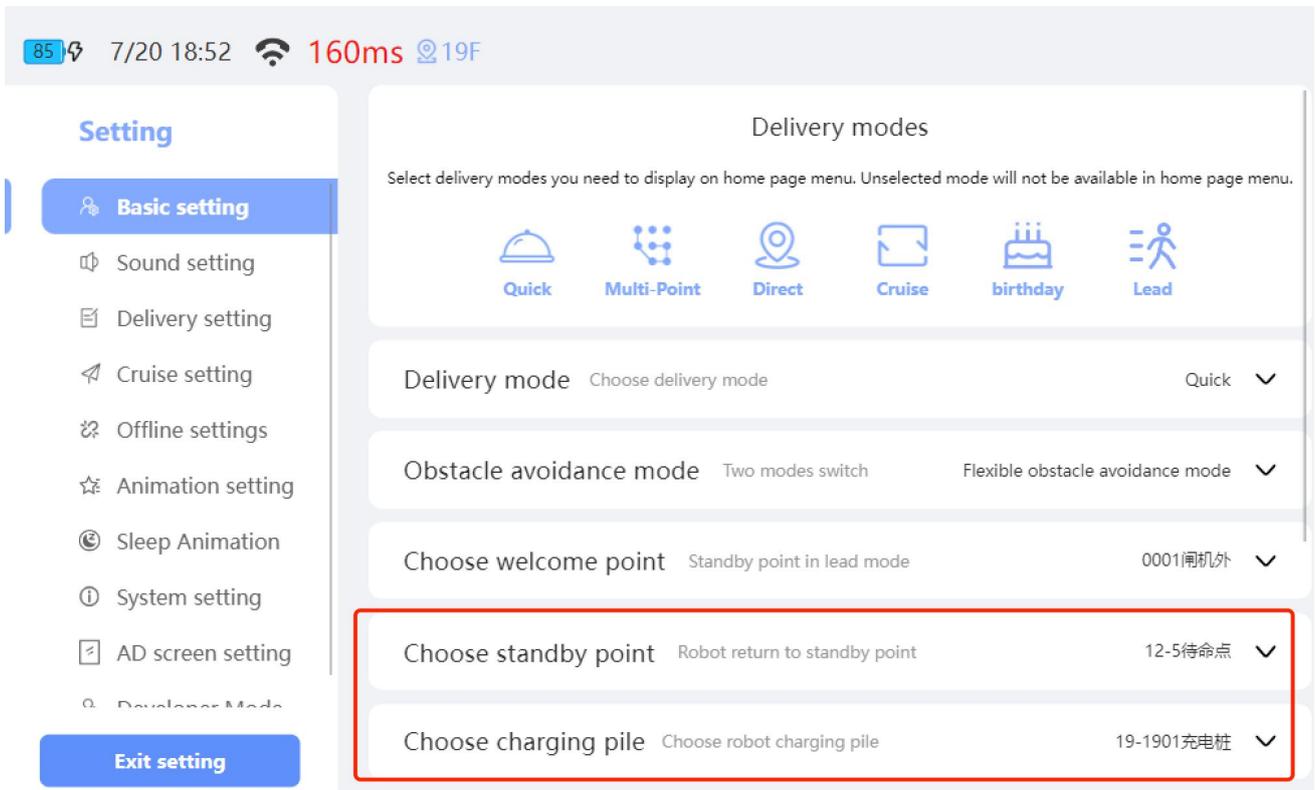
Step1: Click "save" in the upper right corner to save the map.



Step2: Click "Car Pad" to return to the car-machine app



Step3: Enter system settings, Click the "Update Map" button



Step4: After setting the standby point and charging pile, you can return to the home page to issue tasks.