

# Prepare

## 1.Expansion Pack Description

In our product line, the QD001-smart car is the base component, while other products are expansion packs. If you have purchased both the smart car and expansion packs, please start with the QD001 tutorial for basic training, and then refer to the tutorials for the specific expansion packs you purchased.

## 2.Installation Steps

First, assemble the tracked vehicle: [\[Click here to get the tracked vehicle assembly steps\]](#)

## 3.Download the APP (If already downloaded, please skip this step)

(1)If you are using an iOS device, search for the keyword "ACEBOTT" in the App Store and download it. If you are using an Android device, search for the keyword "ACEBOTT" in the Google Play Store and download it. The icon is shown below.

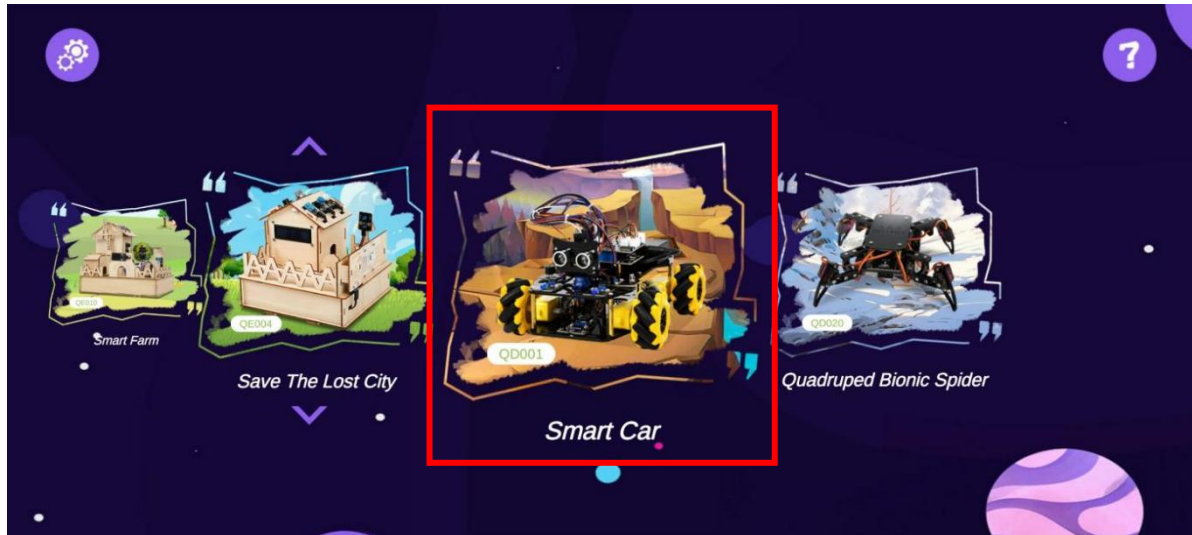


Note: 1. This tutorial is applicable to ACEBOTT APP version 2.0 and above. You can click the settings button in the upper left corner of the APP to view the software version number. Please make sure that the software version you are using meets the requirements; 2. If you need to update the ACEBOTT software version, you can refer to the method prompted in this tutorial to download the latest APP version.

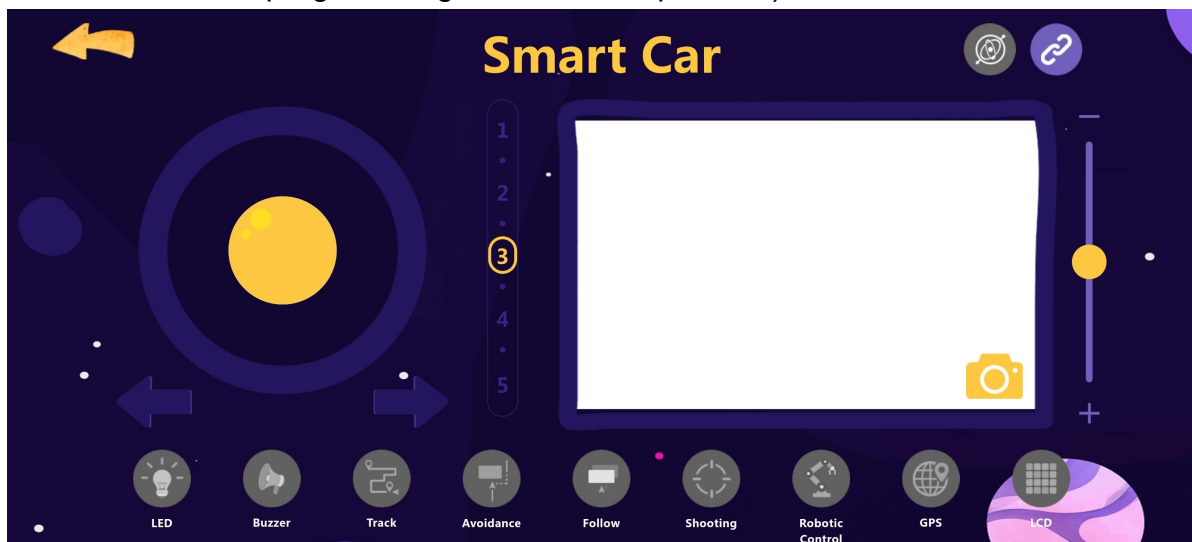
(2)After opening the APP, you will enter the splash screen.



(3)Enter the selection screen and choose "Smart Car."



(4)Enter the control interface of the tracked vehicle (you cannot control it directly at this moment, as programming needs to be uploaded).



## 4. Program Burning

### (1)Tracked Vehicle APP Control Program

You can't directly control the tracked vehicle with the app yet because the control program needs to be uploaded to the vehicle first.

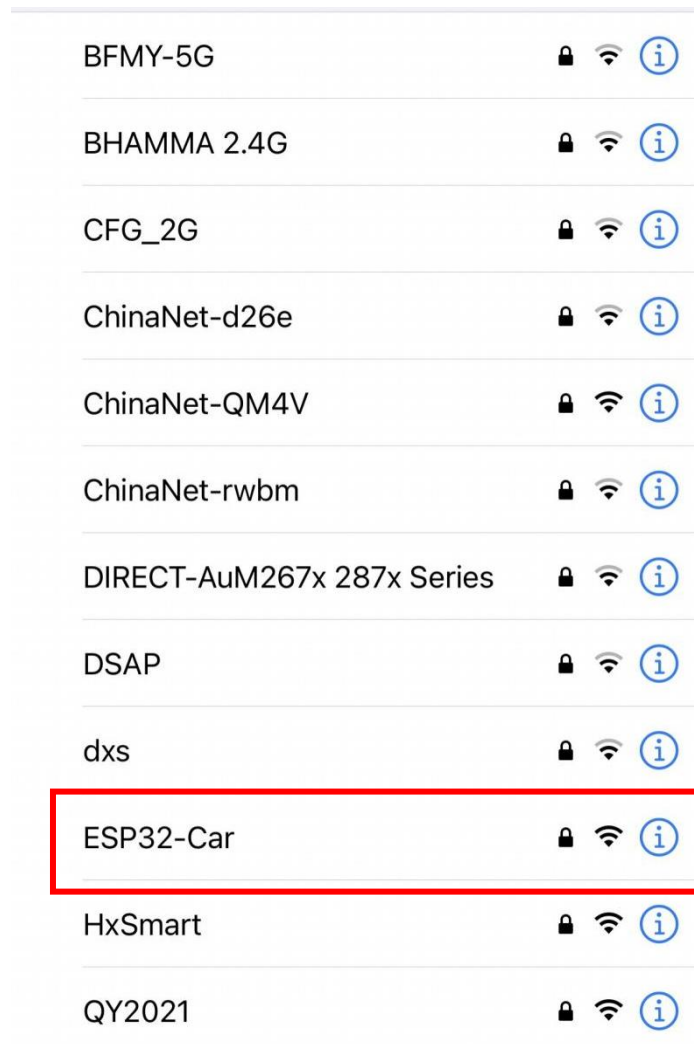
The structure of the tracked vehicle is different from the previous omni-wheel structure, so the app's functionality for the tracked vehicle lacks the capability for lateral movement.

Before uploading, connect the USB data cable between the computer and the ESP32 controller board of the tracked vehicle, and make sure to turn on the vehicle's power.

Tracked vehicle program: [\[Click here to get the APP control car program\]](#)

## (2)Connect to Wi-Fi

Scan for Wi-Fi networks on your mobile device (Turn off GPRS and other shared networks to ensure Wi-Fi is the only network in use) (Specifically, in your phone's "Settings" → "Wi-Fi" section), and connect to the network named "ESP32-Car" with the password "12345678," as shown in the following image.

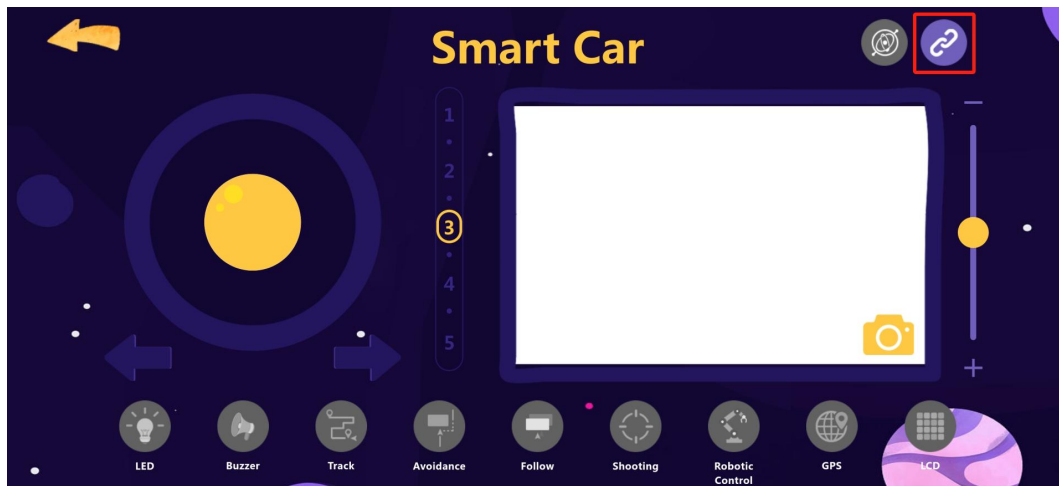


Note: You can customize and modify the Wi-Fi name and password. When you have multiple smart cars, you can differentiate each one by using different Wi-Fi names.

```
const char *ssid = "ESP32-Car";  
const char *password = "12345678";
```

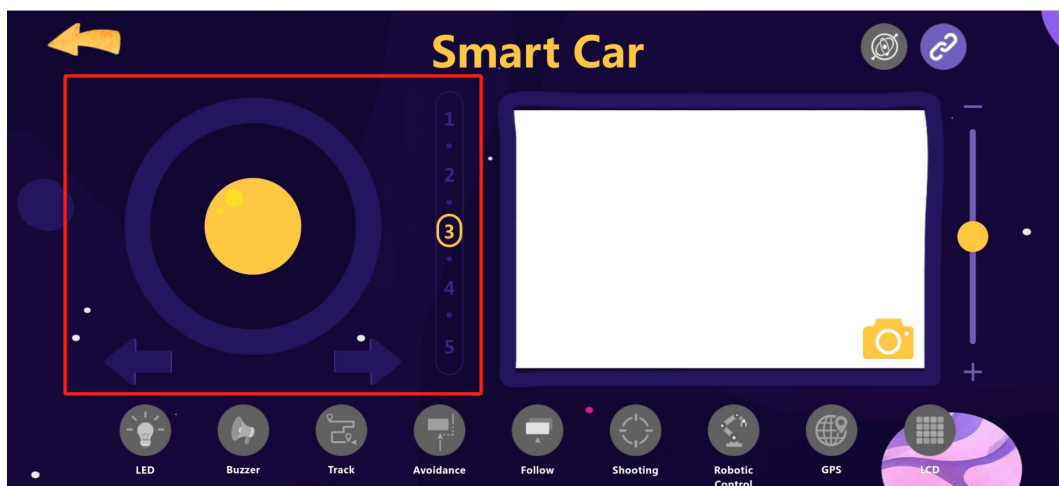
## (3)Use the app to control.

After connecting to Wi-Fi, click on the connection icon in the top right corner of the app to complete the connection.

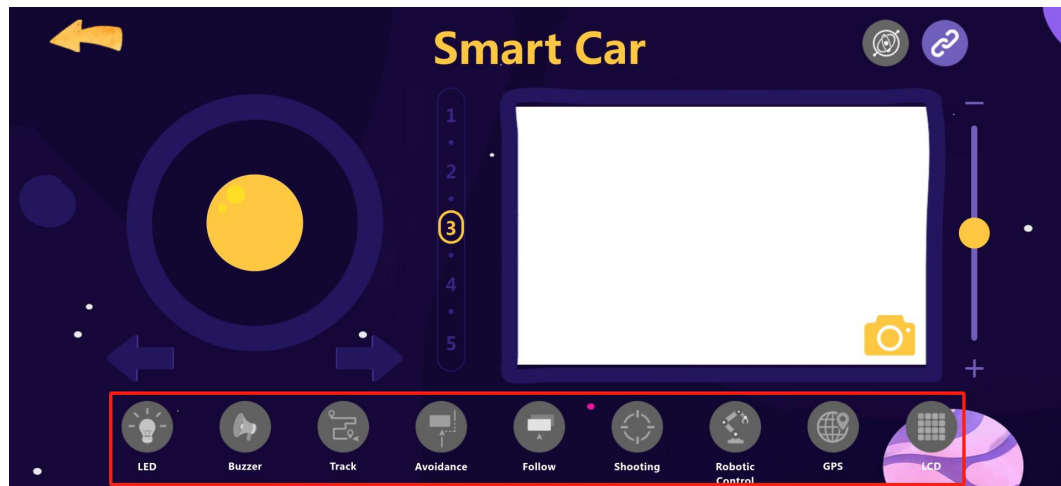


After successful connection, you can control the motion of the car through the APP. The specific operation is as follows.

①The left panel controls the basic movements of the car: forward, backward, turn left, turn right; the middle numbers are used for speed adjustment of the car, the larger the number, the faster the speed.



②Below is a row of buttons for controlling the functions of the car, from left to right, they control the following functions of the car: LED function, music playback (after clicking, there are four types of music to choose from), track mode (after clicking, there are two track modes to choose from), avoidance mode, follow mode, shooting, robotic arm, GPS, LCD function.

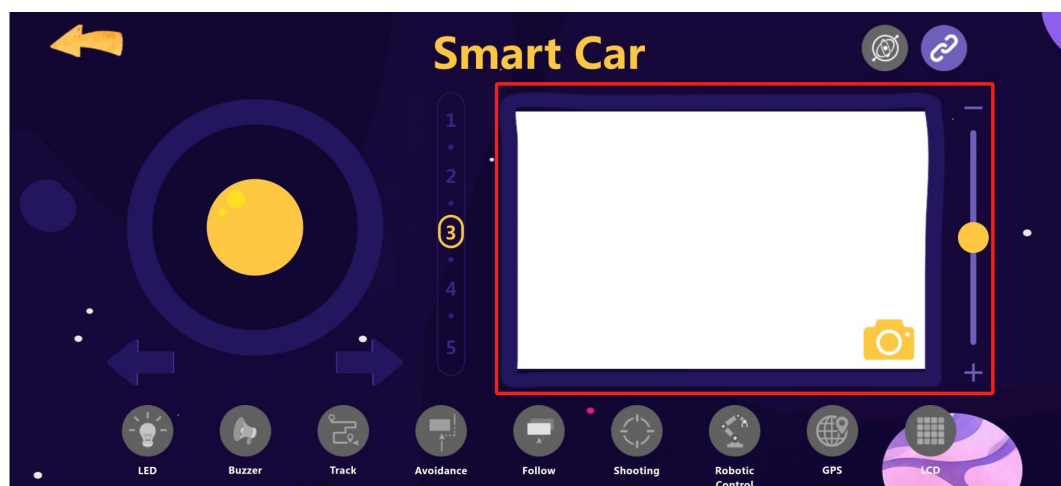


**Note:**

1. After clicking on the track mode, avoidance mode, or Follow mode, the car will enter a continuous tracking, avoidance, or follow state, respectively. To exit this function, you need to click the corresponding function button again to exit the current state. For example, to turn off track mode, you need to click the track button again to exit the track state.

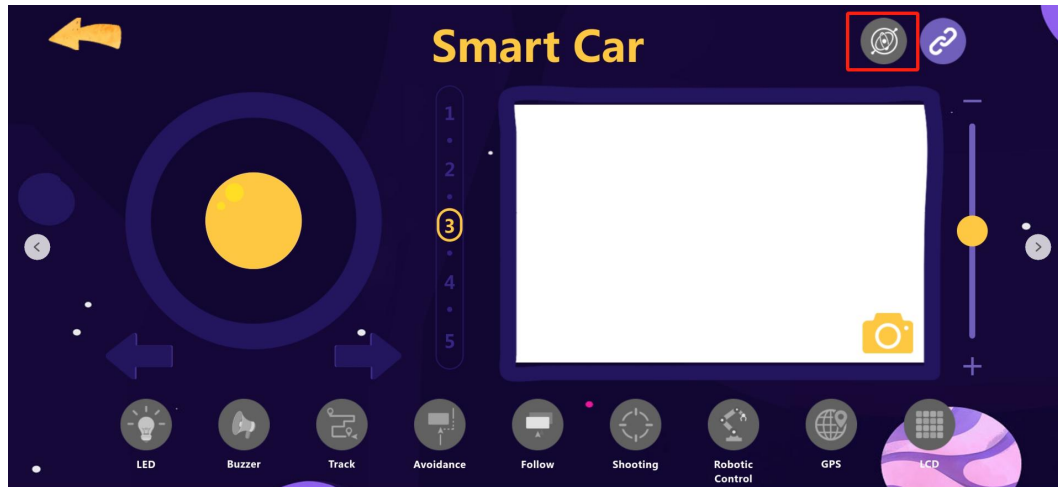
2. Shooting, robotic control, GPS, and LCD are extended functions of the car, which require the corresponding expansion packs to be added for use.

③ The central control panel is for the car's camera function, and the slider on the right is for servo control. Both of these features are extended functions of the car and require the corresponding expansion packs to be used.



④ In the upper right corner of the smart car's operation interface, there is a gyroscope control provided. After clicking this button, you can control the movement of the car through the gyroscope of your mobile phone. If your phone does not have a

built-in gyroscope, you can ignore this feature.



## 5.Usage Notes

(1) Please try to maintain the speed at level 5 during use because the tracks have significant friction, and too low a speed may cause the motors to stop moving.

(2) If the tracks cannot move during normal use, you may need to replace the batteries or recharge them.