

1. You need to download the **Yahboom_4WD_4B.rar** file. Then You need to extract the **Yahboom_4WD_4B.rar** file by winRAR software, and you will get a Yahboom_4WD_4B folder with Yahboom_4WD_4B.img. Then, you need to burn Yahboom_4WD_4B.img into SD card.

! Note: Need to format the SD card before burning the image

Tip: Please read carefully on how to burn the image **【Raspberry Pi 4WD】 -- 【2.Development environment】 -- 【2.1 Download and write the system image】** on the <https://www.yahboom.net/study/4wd-Pi>

2. You need to insert SD card into Raspberry Pi board. And Assembling the robot car.

3. Please use the Android phone to download and install the Bluetooth APK we have provided. (**Yahboom_4WD_Pi_4B.apk**)

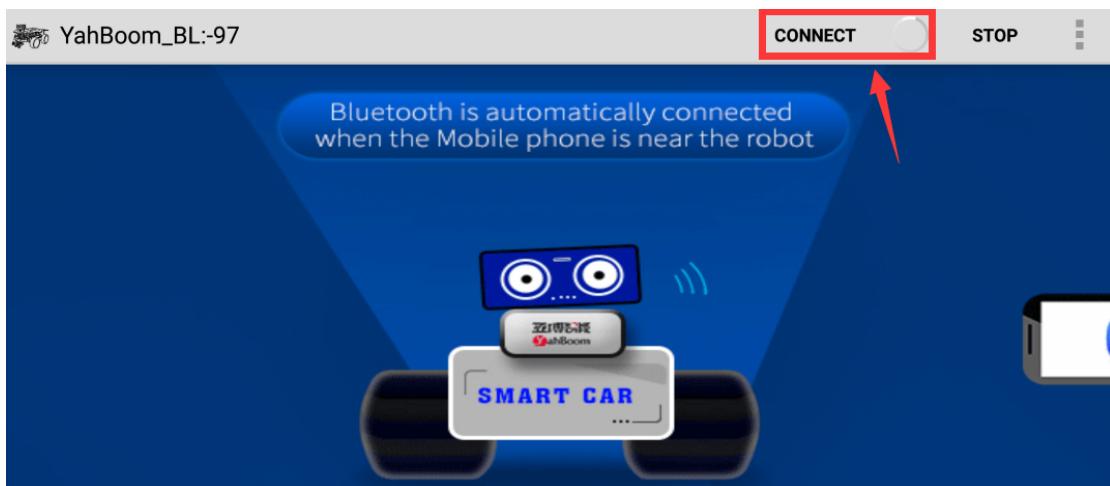
4. After the APP is installed, open the Bluetooth of the your phone, open the power switch of the car(**Wait patiently for a while,The buzzer will ring whistle times**),

! ! Note: It must be heard that the buzzer sounds three times, indicating that it has started normally.

and open the Bluetooth APP. The mobile phone is close to the car, you will see the Bluetooth signal in the upper left corner of the Bluetooth APP interface, as shown below, while the red indicator of the Bluetooth module keeps flashing.



5. The phone will automatically connect to the Bluetooth near the car. If there is no automatic connection, you need to click **【CONNECT】** on the APP interface.



6. Then, Bluetooth can be successfully connected, and the APP will enter the interface as shown below. At the same time, the red indicator of the Bluetooth module will be keep on.



7. Wait for the ultrasonic data to change, it prove that Bluetooth starts to transmit data normally. You can start to control the car.

You need to pay attention to the points, otherwise the Bluetooth remote control function will have problems.

Note:

(1) The robot car needs to have enough voltage to work properly. Please refer to the following figure for the charging method and battery usage:

Raspberry pi 4WD

- 1. Remote control operation
- 2. Development environment
- 3. Experimental tutorial
- 4. Battery and charging

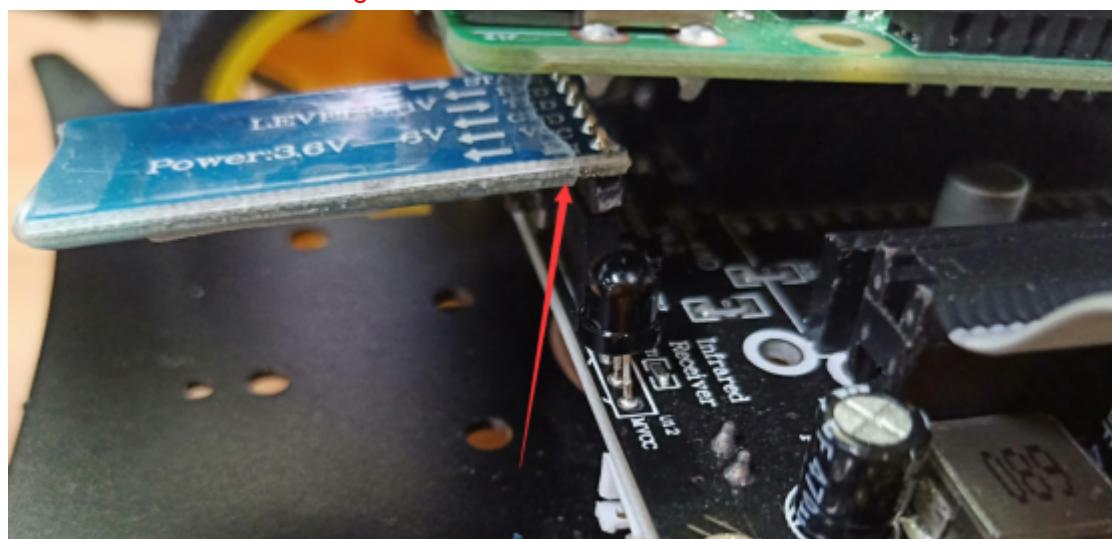
4.1 Battery of 4WD robot car use precautions

Welcome to Raspberry pi 4WD repos

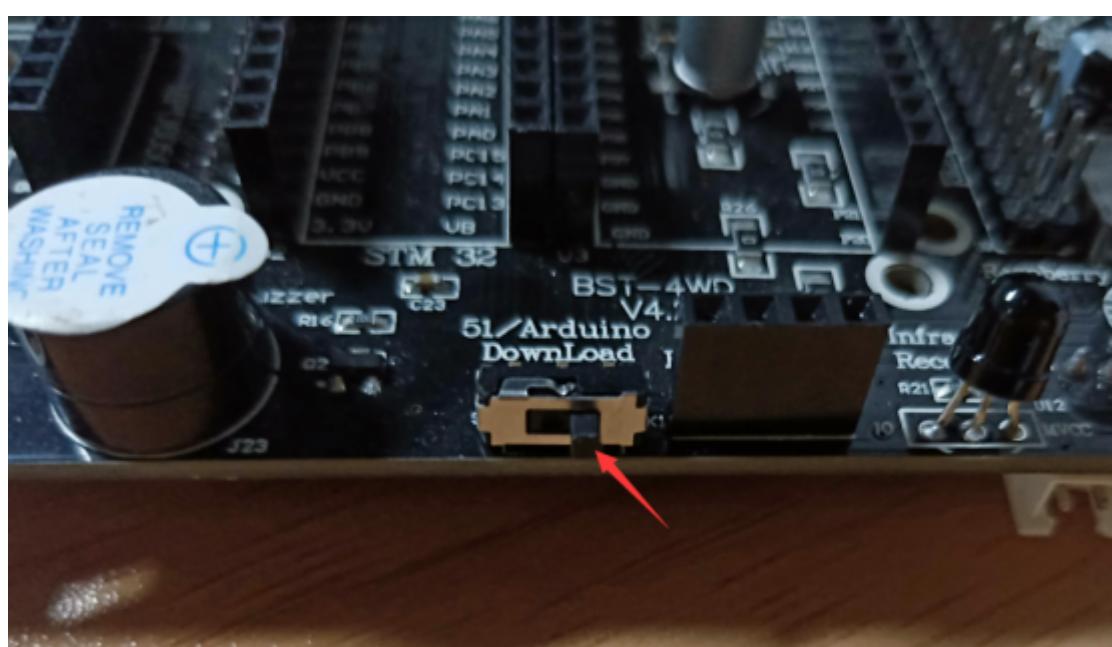
4.1 Battery of 4WD robot car use precautions

- Battery of 4WD robot car use precautions:**
1. Please use the charger we provide to charge the car.
 2. The car cannot be used while charging.
 3. The voltage needs to be charged in time at around 9V. When the ch...

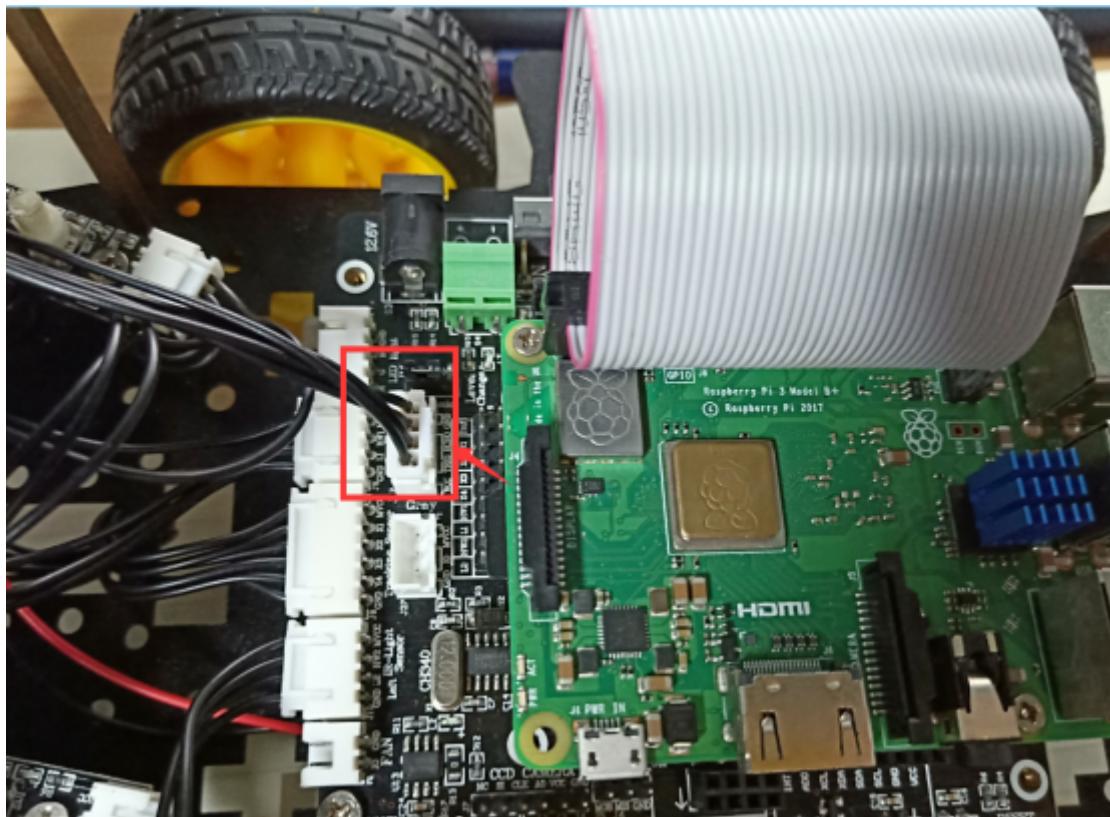
(2) The Bluetooth module needs to be properly inserted into the expansion board of the robot car. As shown in the figure below.



(3) 51/Arduino Download Switch on the expansion board must be set to [OFF]. As shown in the figure below.



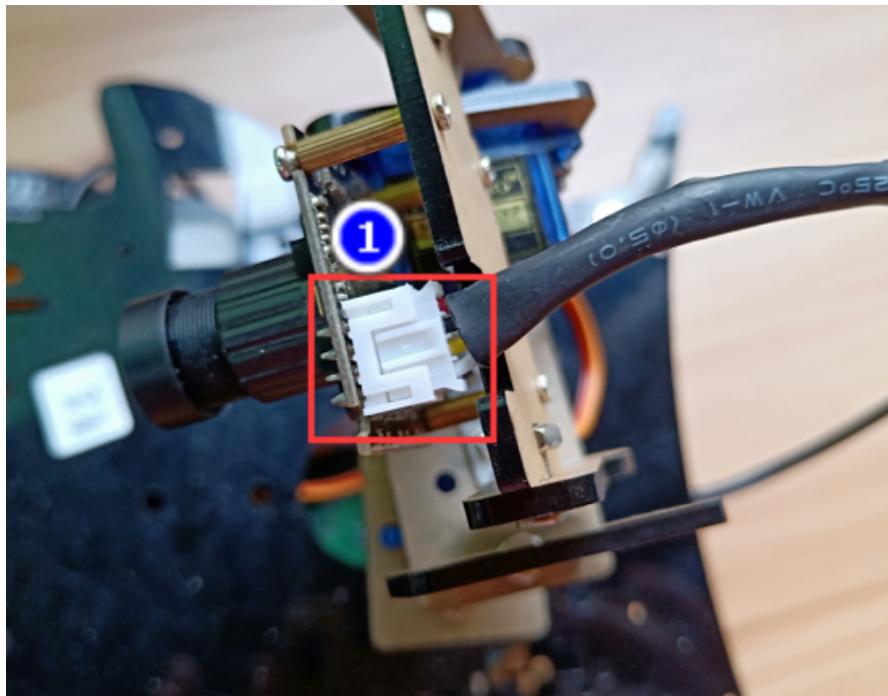
(4) The ultrasonic module must be inserted. As shown in the figure below.

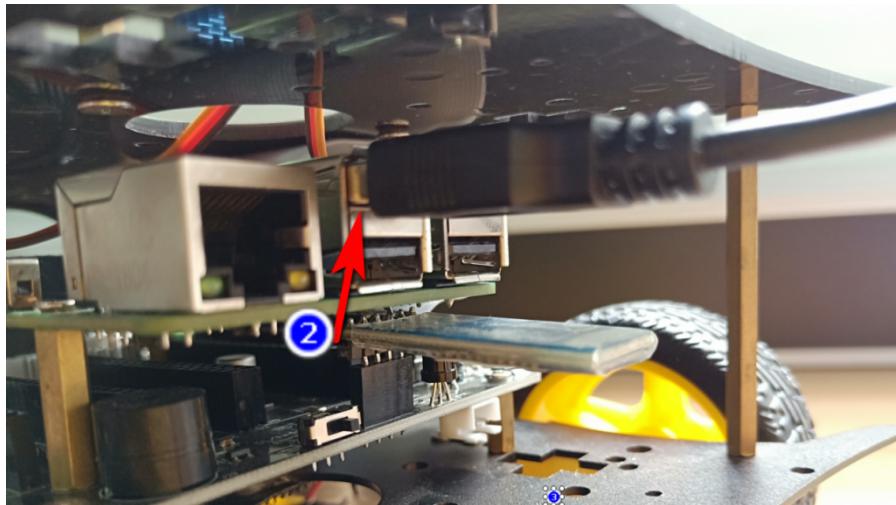


Please read our manual for introductions of Bluetooth remote control interface.

About camera:

If you want to use camera, you need to connect the camera and the Raspberry Pi motherboard correctly. The camera connection is as follows:

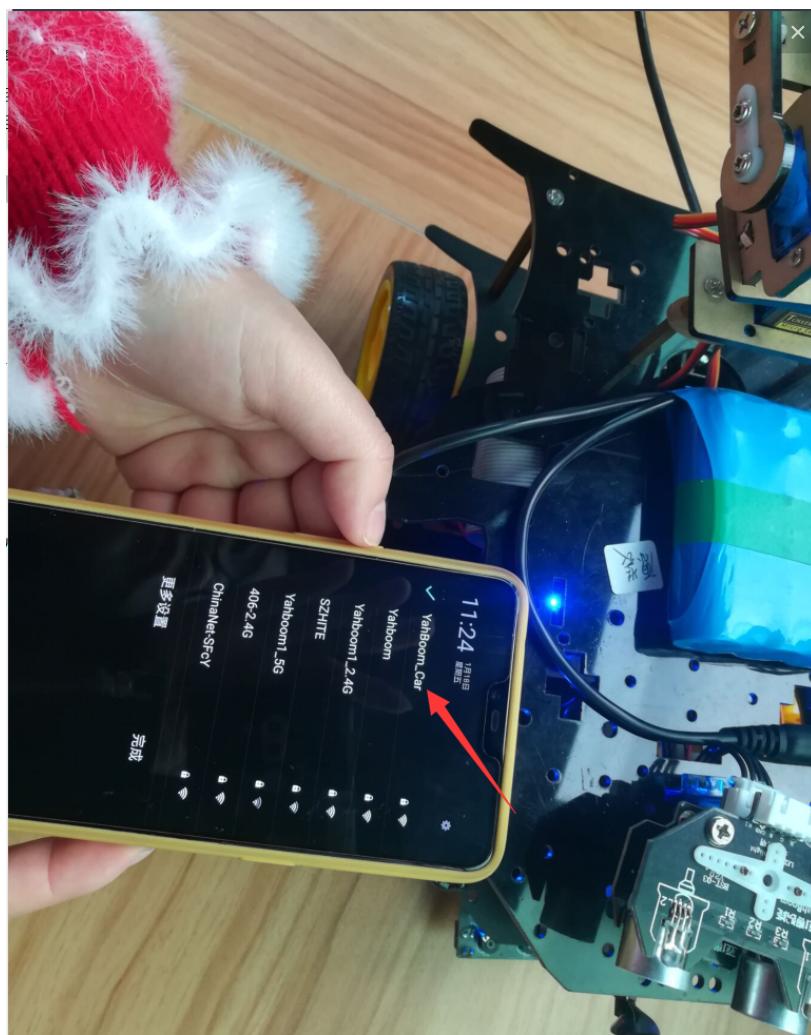




Your phone must connect WiFi of the Tank. As shown below.

Name: Yahboom_Tank

Password: 12345678



This WiFi is only used to transmit video and cannot be accessed online.

When you connect to WiFi, you can see the picture taken by the camera on your mobile phone. As shown below.

