1、APP remote control tutorial

1.1、Mobile phone scan code to install APP

For Android system users, please open the Google Play app store and search for [YahboomRobot], or open the mobile browser, scan the QR code below, download and install the [YahboomRobot] APP.

For iOS users, please open the App store and search for [YahboomRobot], or open the code scanner, scan the QR code below, and download and install the [YahboomRobot] APP.

If the latest version of [YahboomRobot] APP is already installed on your phone, you do not need to install it again.

1.2、APP connection DOGZILLA

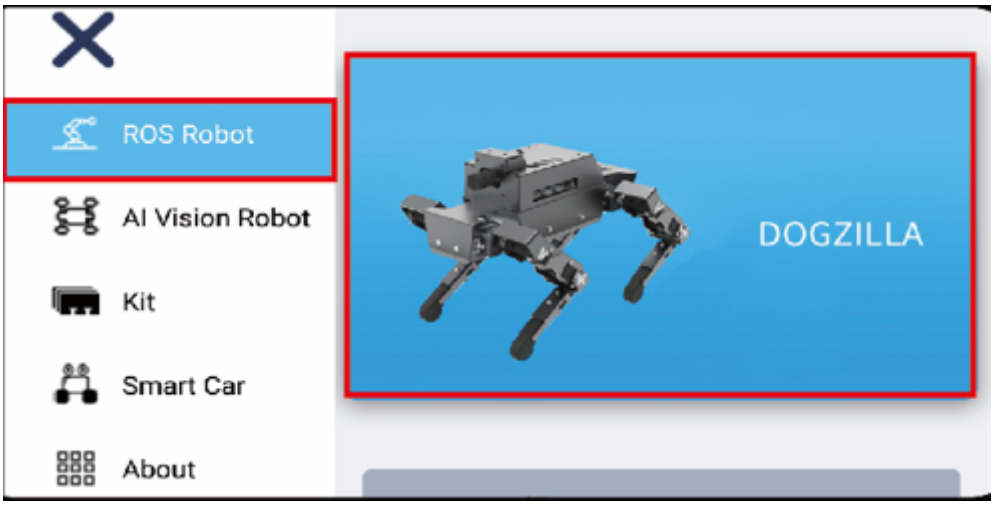
The TF card provided in the product includes the system file by default. Insert the TF into the Raspberry Pi and assemble the DOGZILLA to boot normally without reconfiguring the mirroring.

Press the switch button on the side of DOGZILLA, the switch is a self-locking type, that is, it does not rebound after pressing and the robot dog is in a continuous power-on state, the green light of the switch is always on, and DOGZILLA will stand up,wait for about 1.5 minutes until DOGZILLA completes the stretching action, which means that the system starts normally, and you can see the information displayed by the OLED at this time.

DOGZILLA's factory-built system comes with a hotspot signal [DOGZILLA_WIFI] and password [12345678]. You can use your mobile phone to connect to DOGZILLA's hotspot signal to form a local area network. Or connect DOGZILLA and mobile phone to the same router to form a local area network.

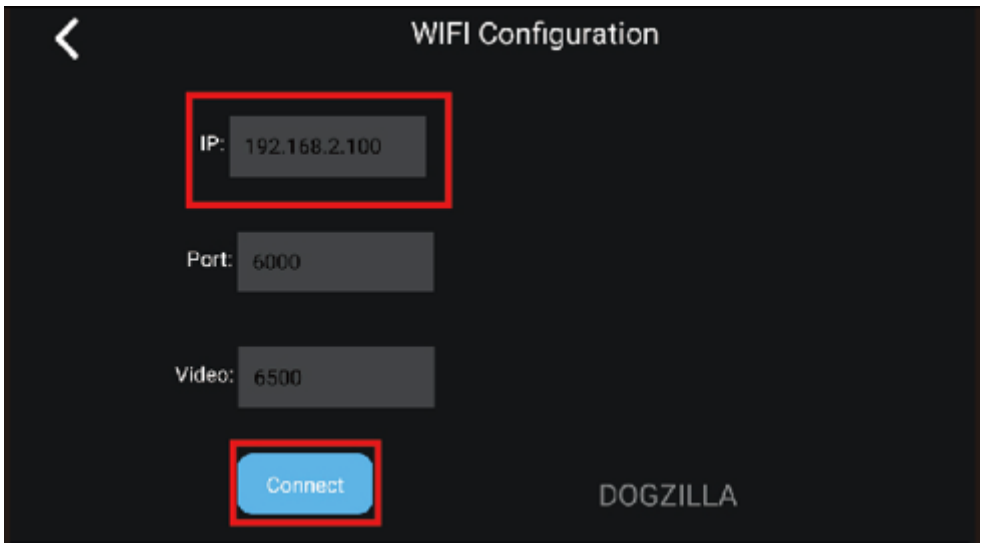
1.2.1. Select robot

Open the [YahboomRobot] APP for the first time, according to the purchased robot model, you need to select the [DOGZILLA] device in [ROS Robot].



1.2.2. Connect network

Fill in the IP address displayed by the OLED in DOGZILLA in the IP column, and use the default parameters in the Port and Video columns. Click [Connect], and it will automatically jump to the main control interface after the connection is successful.



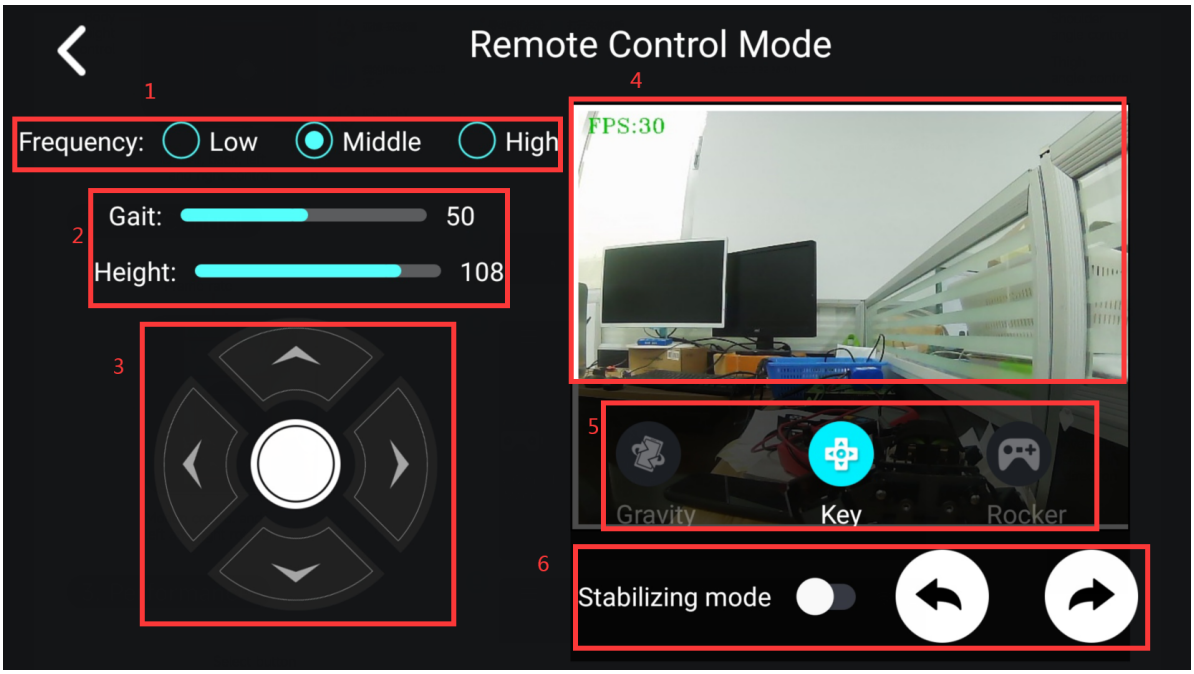
Note: Before connecting the device, please confirm that the mobile phone is connected to the ROSMASTER hotspot signal, or the mobile phone and the ROSMASTER car are connected to the same router. And the app program has been started (the factory system defaults to start the app program).

1.3. Introduction of APP functions

The main interface of DOGZILLA APP is mainly divided into five modules, each of which corresponds to different functions.

1.3.1. Remote control

[Remote control] interface functions are shown as follows.



Part 1. Speed control.

Part 2. Body Height Control.

Part 3. Front, back, left and right motion control.

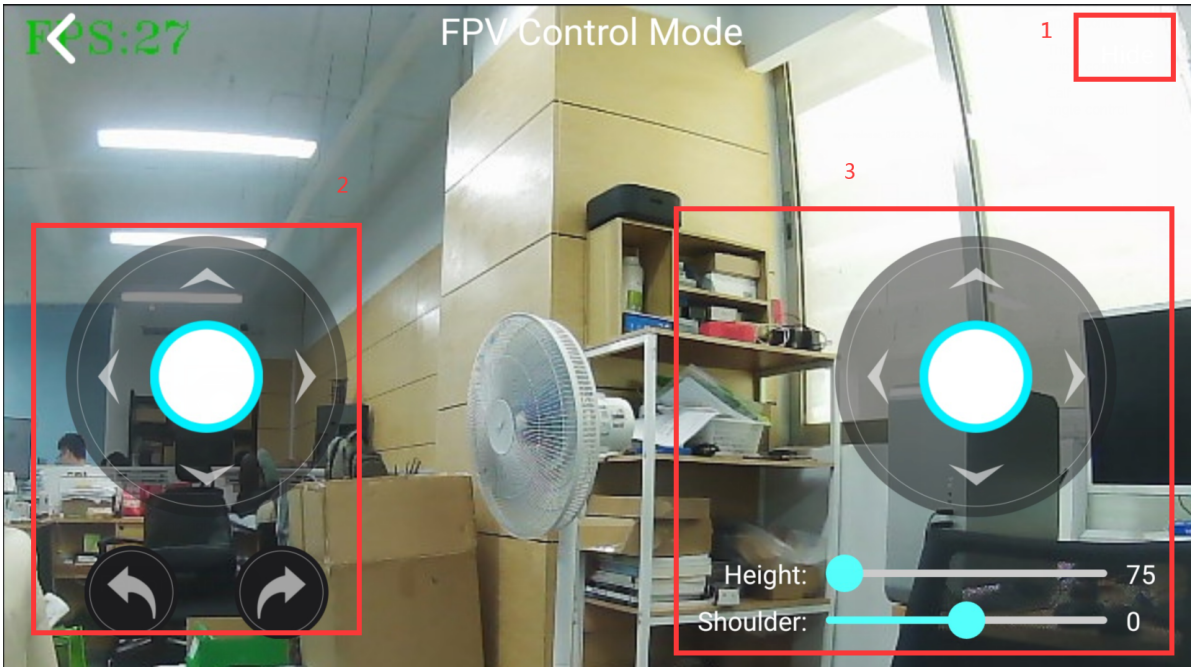
Part 4. Camera image.

Part 5. Select the control method.

Part 6. Turn on the self-stabilizing mode, keep the feet still, and keep the back level.

Part 7. Left and right rotation.

1.3.2. Full-screen control



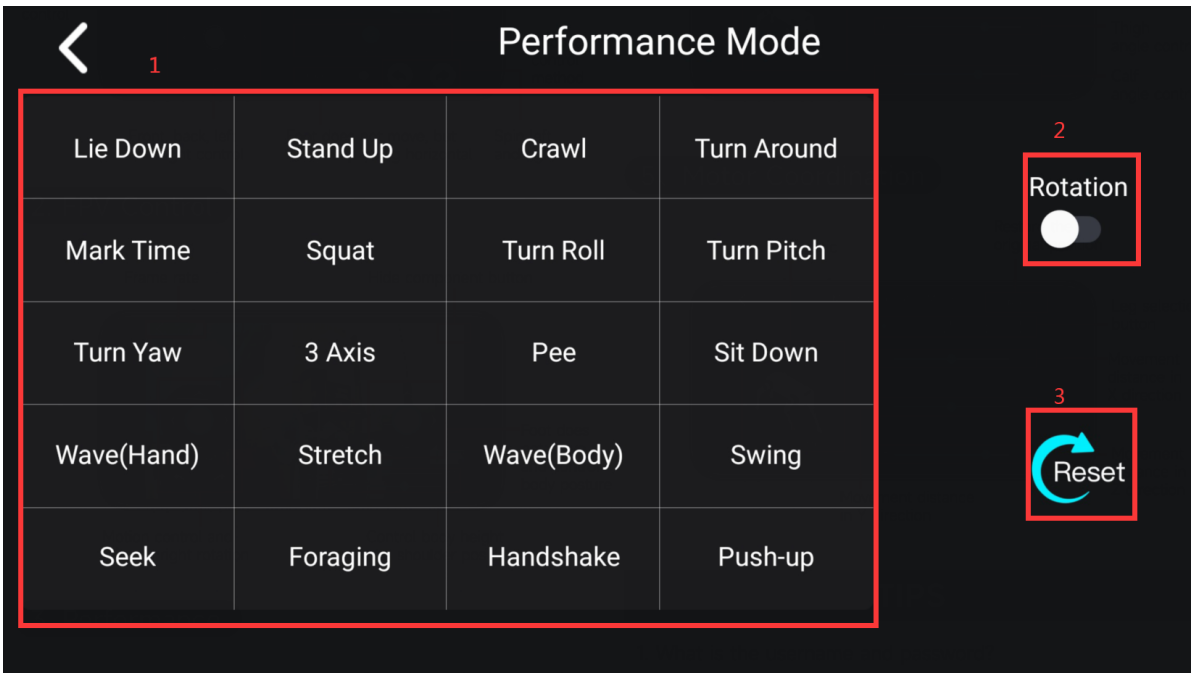
Part 1. Hide the controls and keep the full-screen camera image, which can be controlled with a wireless controller, and click again to display the controls.

Part 2. Control the moving position of the robot dog.

Part 3. Control the body posture of the robot dog.

1.3.3. Action

[Action] The interface functions are shown as follows.



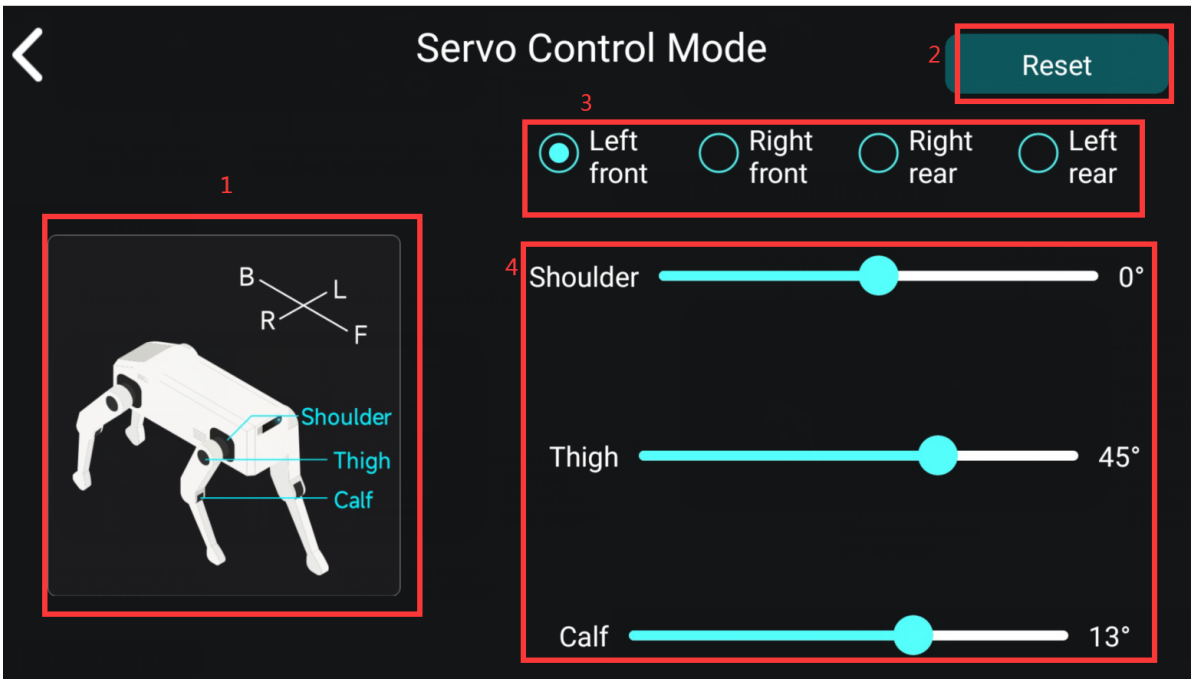
Part 1. Twenty preset actions, run once per click.

Part 2. Turn on the action carousel, and all actions will run in turn.

Part 3. Reset button, stop motion and restore default posture.

1.3.4. Servo control

The function of the [Servo Control] interface is shown as follows.



Part 1. Schematic diagram of joint position.

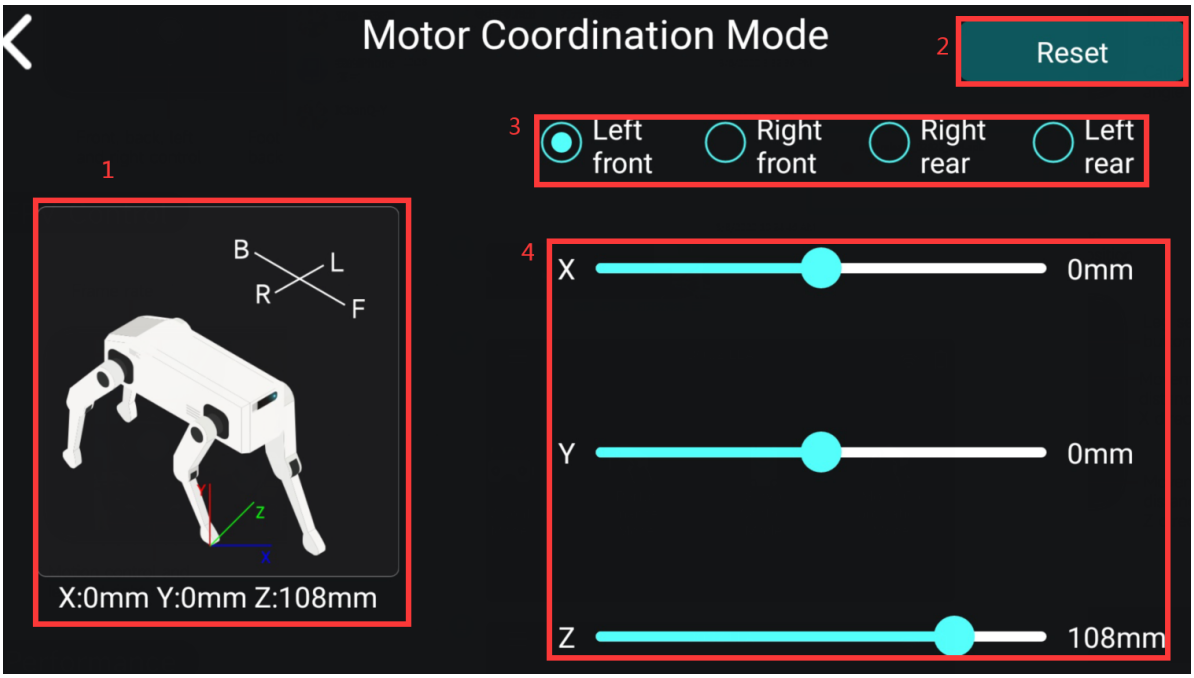
Part 2. Restore the default posture.

Part 3. Choose which leg joint is to be controlled.

Part 4. Control the joint angle.

1.3.5. Single-leg control

[Single-leg control] interface functions are shown as follows.



Part 1. Schematic diagram.

Part 2. Restore the default posture.

Part 3. Choose which leg to control.

Part 4. Control foot position.