

2. Handle remote control

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- 2.1. Introduction to the keys of the USB wireless handle
- 2.2. USB wireless handle connected to DOGZILLA
- 2.3. Control the DOGZILLA robot dog
- 3、Precautions for using the handle

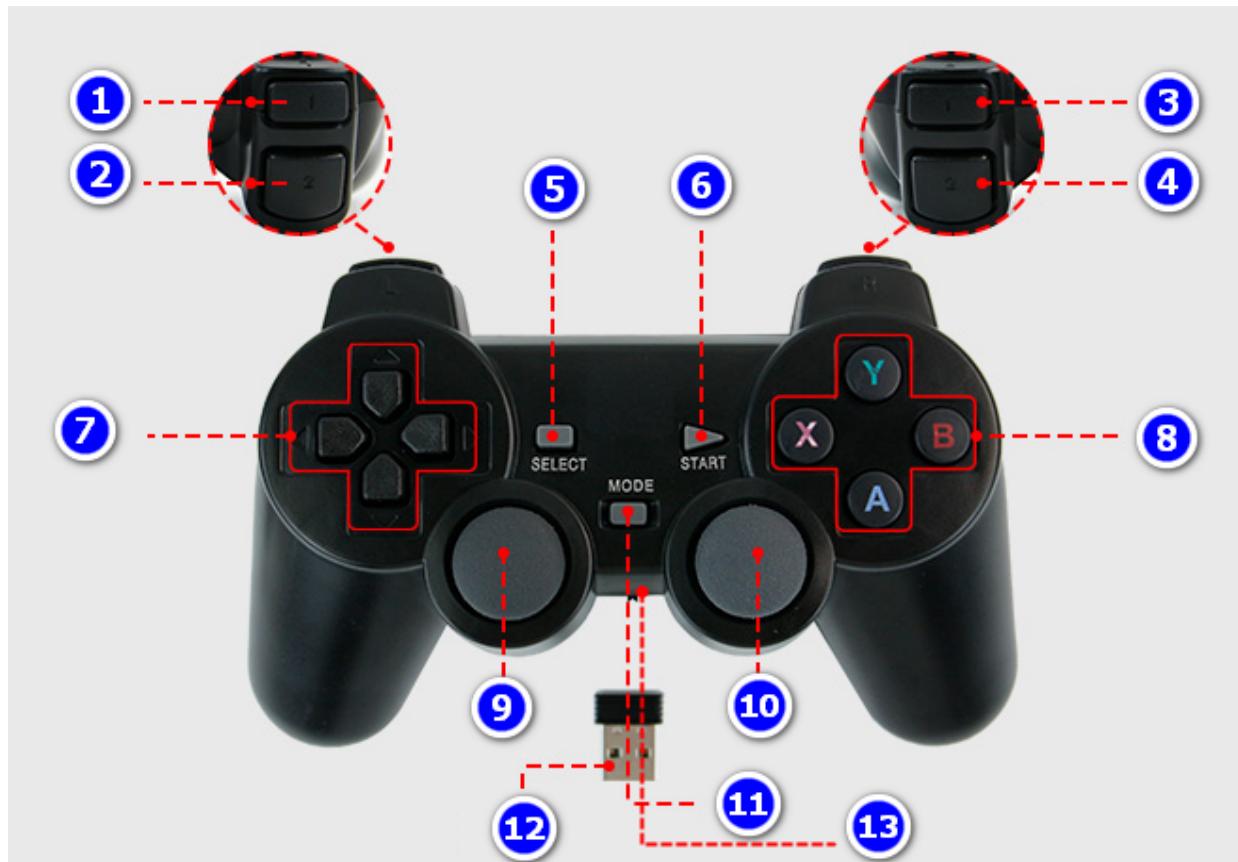
Notice:

A: Yahboom DOGZILLA's system file will start automatically when it is turned on by default. In this course, the USB wireless controller to control DOGZILLA needs to start the large program to be effective.

B : The USB wireless handle will automatically enter the sleep state if it is not operated for a period of time. At this time, you can press the START button to wake up the handle.

C: After connecting the handle, if the mode indicator on the handle is green, please press and hold the mode button for about 5 seconds to switch the indicator to red. Then we can use the handle to control the car normally.

2.1. Introduction to the keys of the USB wireless handle



(1) L1: Execute three-axis linkage action

(2) L2: Perform left and right swing action

- (3) R1: perform kicking action
- (4) R2: Perform peeing action
- (5) SELECT: Enable obstacle crossing mode
- (6) START: Wake up the USB wireless handle and restore the initial state
- (7) Arrow keys: control DOGZILLA forward and backward, left and right translation
- (8) Function keys: X controls the shoulder to the left, B controls the shoulder to the right, Y controls the height increase, A controls the decrease height
- (9) Left joystick: The joystick controls the speed of DOGZILLA moving forward, backward, left and right, and pressing the joystick controls the width of the steps
- (10) Right joystick: Left and right control left and right rotation, up and down control head up and head down, press the joystick to control the step frequency
- (11) MODE: Connect some computer systems to pop up the game menu, which is of no practical use here
- (12) USB wireless receiving terminal: Connect to the USB port of Raspberry Pi.
- (13) USB wireless handle power switch: turn ON to turn on, turn OFF to turn off

2.2. USB wireless handle connected to DOGZILLA

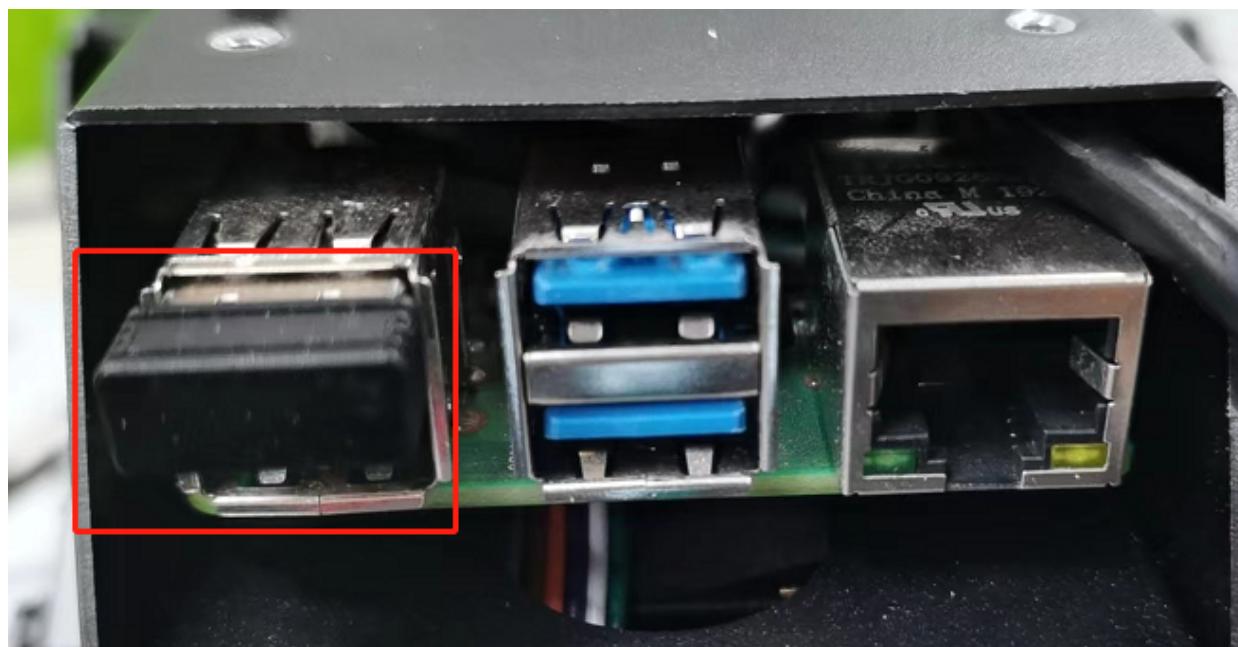
Please open the battery cover on the back of the USB wireless handle, then install two AAA batteries into the battery compartment as shown below, and then close the battery cover.



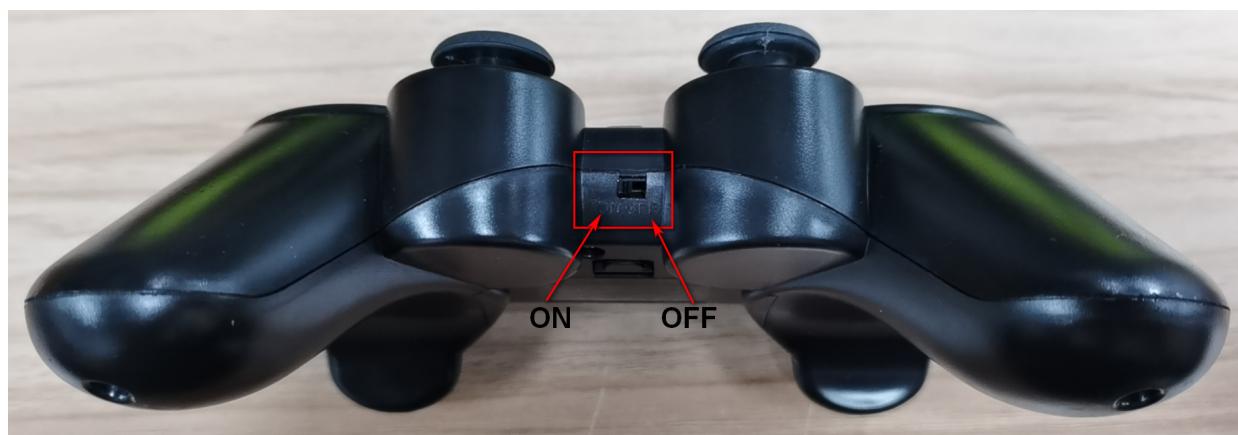
The following picture shows the receiver of the USB wireless handle:



Please insert the USB wireless controller receiver into the USB port of the Raspberry Pi motherboard. As shown below:



Please turn the power switch at the bottom of the USB wireless handle to ON to turn on the power. If you don't use it for a long time, please dial to OFF to save power.



Then turn on the power switch of DOGZILLA and wait for the startup to complete. The startup process takes about 1-2 minutes. After startup, DOGZILLA will do a stretching action.

If the handle goes to sleep, please short press the [START] key of the USB wireless handle to activate the handle.

Notice:

A: Since the USB wireless controller needs to confirm the code when connecting to the USB receiver, please avoid the situation of multiple receivers at the same time when connecting, otherwise there may be interference, and other receivers may be connected.

B: Explanation of the status of the indicator light of the USB wireless handle:

When the indicator light of the USB wireless handle is off, it means that the handle is in a shutdown or hibernation state. Make sure the power of the handle is normal and turn it on, or press the [START] key to wake up the handle.



Please confirm whether the USB controller receiver is correctly inserted into the USB port of the Raspberry Pi that is powered on.



When the indicator light of the USB wireless handle only lights up the MODE LED, it means that the USB handle receiver has been connected.



2.3. Control the DOGZILLA robot dog

After the connection is successful, you can use the handle to control the DOGZILLA according to the function introduction of [USB wireless handle key introduction].

3、Precautions for using the handle

- After plugging and unplugging the handle receiving head, the handle program needs to be restarted, otherwise the car will not be able to be controlled.
- After starting the handle control program, if the handle cannot control the car, it may be caused by the wrong handle control mode. You can press and hold the handle mode button for about 15 seconds to switch modes. After the green indicator light is always on, press the start button again. If the buzzer sounds, it means the switching is successful. If there is no response, you can press and hold the mode button on the handle again for 15 seconds.

Raspberry Pi series support mode: X-BOX mode. In X-BOX mode, the default POWER MODE indicator light is green. You can connect the handle receiver to the usb port of the computer to connect to the wireless handle. Enter the URL in the browser: <https://gamepad-tester.com/>. Pressing the button URL will display the change of the button value, as shown in the following figure:



Other support mode: PC/PCS mode. In PC mode, the POWER MODE indicator light is red by default. You can connect the handle receiver to the usb port of the computer to connect to the wireless handle. Enter the URL in the browser: <https://gamepad-tester.com/>. Pressing the button URL will display the change of the button value, as shown in the following figure:



- After re-plugging the handle receiver or restarting the Raspberry Pi System, the handle will reset to the factory mode. If it cannot be controlled, you need to switch the mode again every time you plug or restart.
- In the case of unsuccessful matching, the POWER MODE indicator light will flash red and green all the time, and will not light up after a few seconds of sleep.