

# USB wireless handle control

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## USB wireless handle control

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!!!Note:

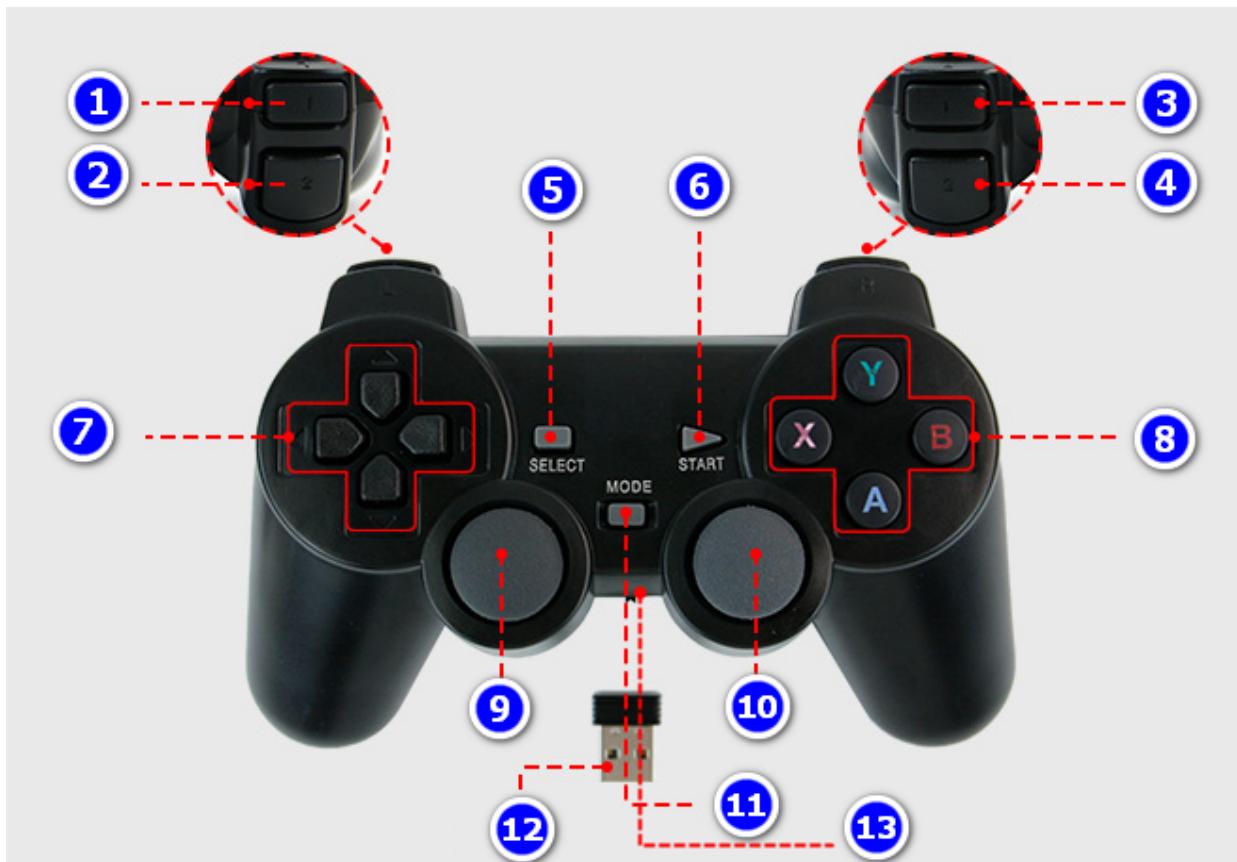
A: Only when the APP remote control process exists, we can use the handle to remote control the robot car normally.

If you use Yahboom SD card and image file, the Transbot APP remote control process will start automatically when you boot up by default. You can directly use the handle to remotely control the car.

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】 key to wake up the handle.

## 1、USB wireless controller key introduction



- (1) L1: Close grip
- (2) L2: Open grip
- (3) R1: RGB light bar special effects
- (4) R2: Function stop button
- (5) SELECT: Searchlight switch
- (6) START: Buzzer switch, wake up USB wireless handle
- (7) Arrow keys: left key control Arm servo-1 to move back, right key control Arm servo-1 to move forward, up key control Arm servo-2 to move up, and down key control Arm servo-2 to move down.
- (8) Function keys: X key controls the pan/tilt to move to the left, B key controls the pan/tilt to move to the right, Y key controls the pan/tilt to move up, A key controls the pan/tilt to move down
- (9) Left rocker: Up to control Transbot forward, downward to control Transbot backward, left and right have no function.  
Press the rocker to control the forward and backward speed.
- (10) Right rocker: Up and down have no function, turn left to control Transbot to rotate left, right to control Transbot to rotate right.  
Press the rocker to control the speed of rotation.
- (11) ODE: Connect some computer systems to pop up the game menu.
- (12) USB wireless receiving terminal: connect to Jetson Nano host computer.
- (13) USB wireless handle power switch: switch to ON for on, switch to OFF for off

## **2、USB wireless controller to connect Transbot**

### **2.1、Install the USB wireless controller battery**

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



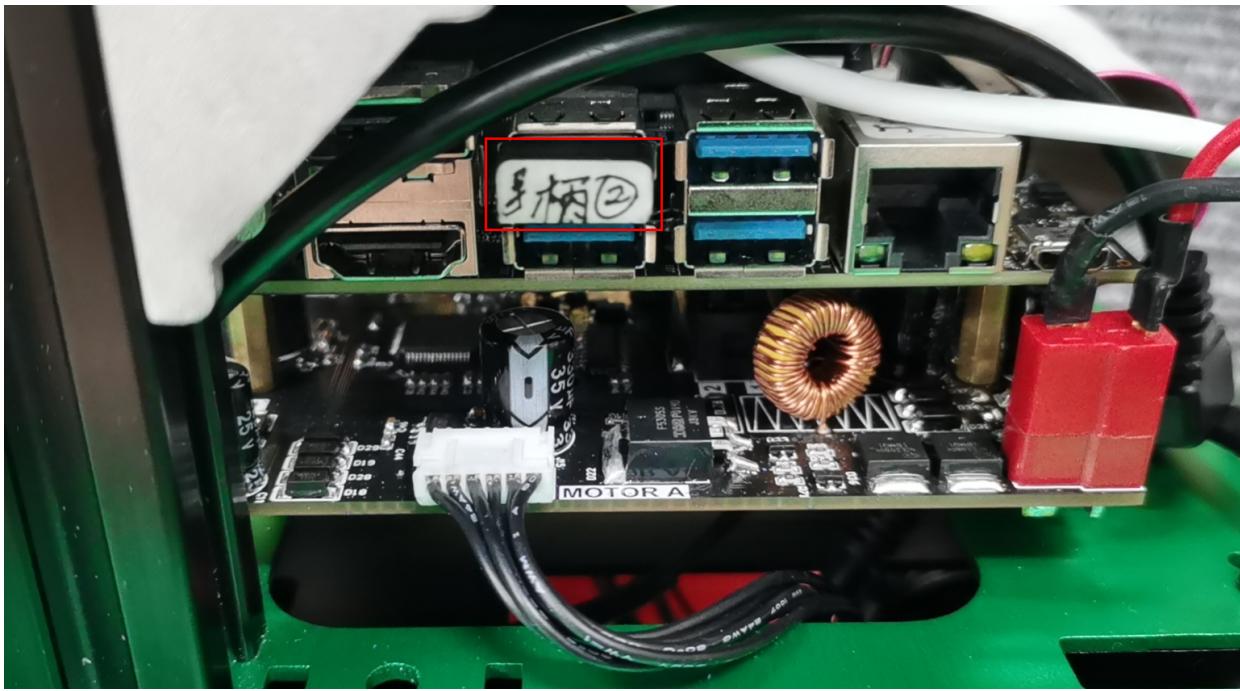
### **2.2、Insert the USB wireless controller receiver**

As shown below.



Please insert the USB wireless controller receiver into the USB port of the Jetson Nano board.

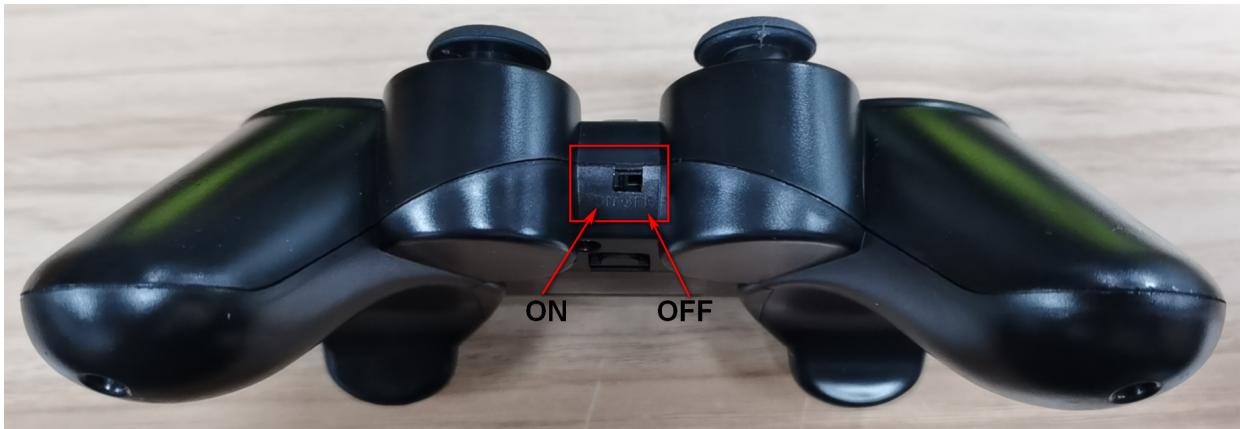
As shown below.



### 2.3、Open the USB wireless controller power switch

Please turn the power switch on the bottom of the USB wireless handle to "ON" to open the handle.

If you do not use it for a long time, please switch to OFF to save power.



### 2.4、Connect Transbot

Turn on the power switch of Transbot and wait for the Transbot robot to start up. The startup process takes about 1-2 minutes. After the successful startup, we can hear the buzzer whistle.

Continuously short press the 【START】 key of the USB wireless controller, if you hear the Transbot will whistle, it means that the controller and the robot are successfully paired.

Note:

A: Due to USB wireless handle needs to be verified when connecting to the USB receiver, during use, please avoid multiple receivers at the same time, otherwise interference may occur and other receivers may be connected.

B: Description of the status of the USB wireless handle indicator:

When the indicator light of the USB wireless controller is off, it means that the controller is in the shutdown or sleep state.

When the handle power switch is on, we can press the 【START】 key to wake up the handle.



When the USB wireless handle indicator flashes, it means that the USB handle receiver is not connected.

Please make sure that the USB handle receiver is correctly inserted into the USB port of the powered-on Jetson Nano board



On the USB wireless controller, when only the MODE LED is on, it means that the controller has been successfully paired with the receiver.



### 3、Control Transbot robot by handle

After the connection is successful, we can use the handle to control the Transbot robot.

!!!Note:

A: Only when the APP remote control process exists, we can use the handle to remote control the robot car normally.

If you use Yahboom SD card and image file, the Transbot APP remote control process will start automatically when you boot up by default. You can directly use the handle to remotely control the car.

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】 key to wake up the handle.

### 4、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.

Jetson series support mode: PC/PCS mode

Raspberry Pi series support mode: X-BOX mode



- After re-plugging the handle receiver or restarting the motherboard, 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.