

Handle video control Transbot

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1、Download and install APP

Android users search "YahboomRobot" in Play Store or enter tutorial link on the homepage to download APP.

iOS users search "YahboomRobot" in App Store to download APP.



2. USB wireless controller to connect Transbot

Please insert the USB wireless handle receiver into the USB port of the Jetson Nano motherboard, and turn on the main power switch of Transbot and the power switch of the USB wireless handle. After the Transbot is started, short press the START button of the handle to connect.

3. Install the USB handle bracket

Since the handle bracket will block the switch of the USB wireless handle, please make sure that the USB wireless handle is installed with the battery and turn on the power switch before installation.

Please open the button at the bottom of the handle bracket and place it on the table.



Put the handle into it.



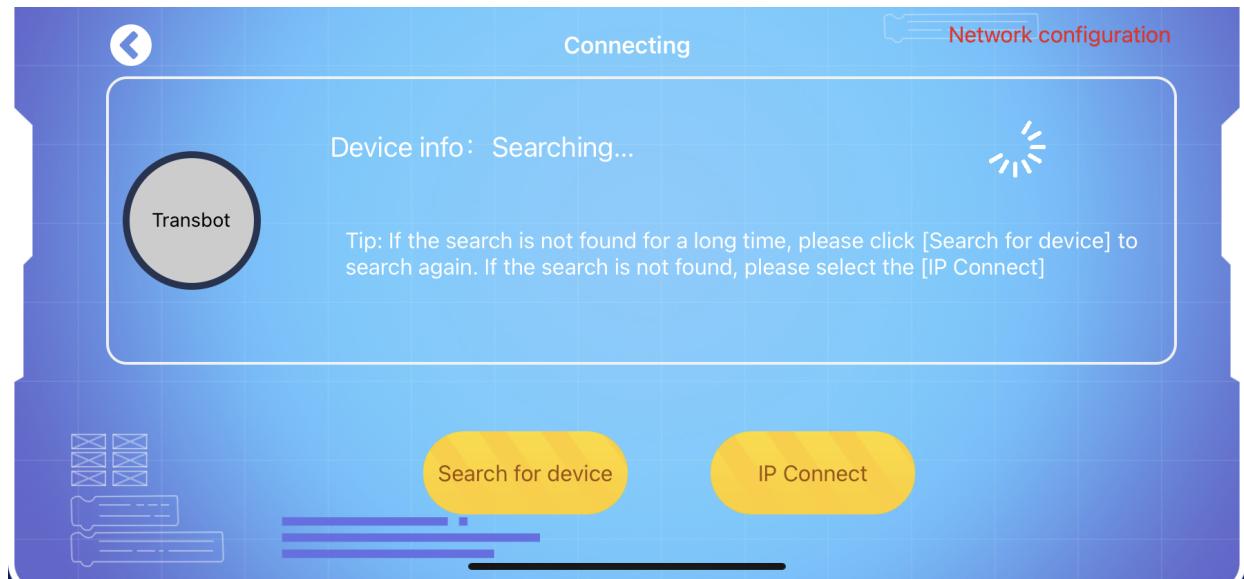
Finally, install the bottom buckle.



4. Search and connect device

The phone will automatically search for the device, and a prompt info will appear after a few seconds, click [Connect]. If the device is not found for a long time, please click [Search for device] to search again.

Note: Before searching for the device, please make sure that the network of Transbot and the mobile phone are in the same local area network.

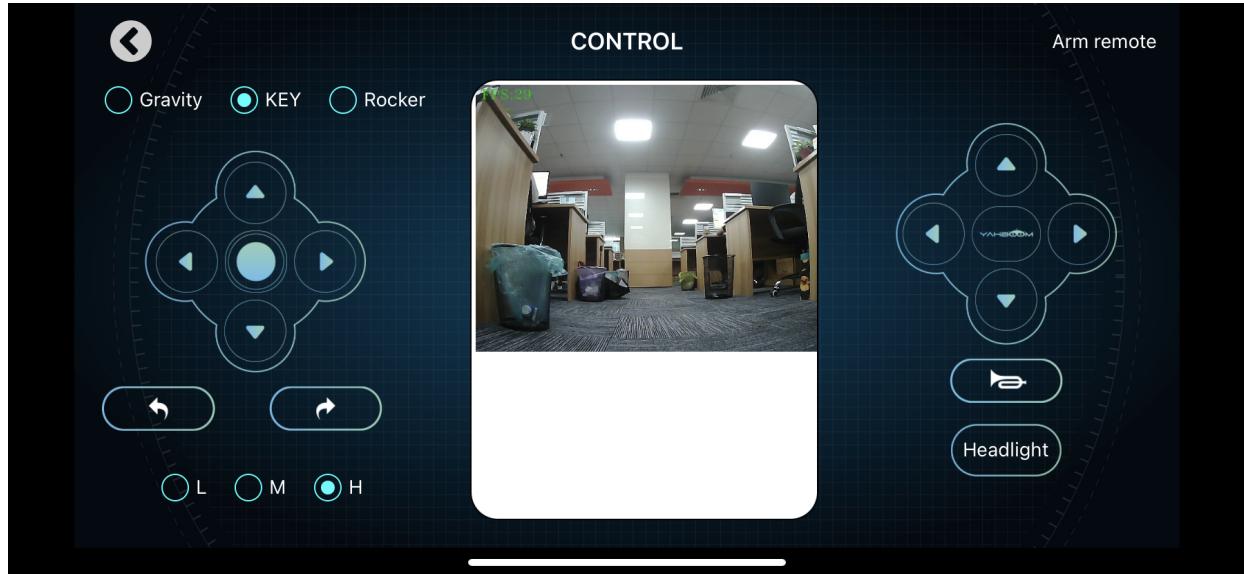


5. Remote control function introduction

After the connection is complete, enter the Transbot APP interface, and click the [Remote Control] icon to enter the remote control function interface.

5.1、Enter the robotic arm remote control screen

Then click [Arm remote] in the upper right corner to jump to the screen.



Click [Hide] in the upper right corner, and the interface control buttons will be hidden



Click [Display] in the upper right corner, and the hidden buttons will be displayed again.



5.2、Put the phone on the handle holder



The two plastic screws in the middle of the bracket are used to adjust the tilt angle of the mobile phone. After loosening, the display angle of the mobile phone can be adjusted, and then tighten the fixed angle.

Note: Before loosening the plastic screws, please take care to protect the phone. Due to the heavy weight of the phone, it may turn back. Please adjust it on the table.

5.3、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

6. 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. 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:



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:



- 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.

- 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.