

Handle video control Transbot SE(Optional)

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Tips: Transbot SE packing list didn't include handle, if you need complete this function, please purchase handles additionally.

Handle Link: <https://category.yahboom.net/products/usb-ps2>

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 SE

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 SE 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.



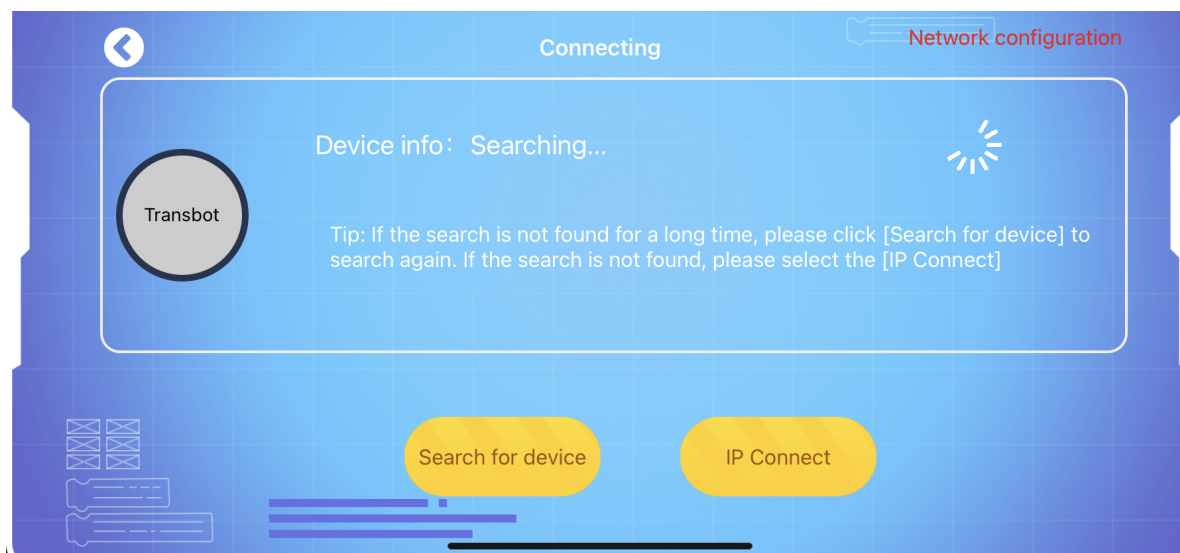
Finally, install the bottom buckle.



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 SE and the mobile phone are in the same local area network.



5、 Remote control function introduction

After the connection is complete, enter the Transbot SE 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: Transbot SE didn't support that
- (4) R2: Function stop button
- (5) SELECT: Transbot SE didn't support that
- (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 SE forward, downward to control Transbot SE 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 SE to rotate left, right to control Transbot SE 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

5.4、Precautions for handle use

- After inserting and removing the handle receiver, restart the handle program; otherwise, the car cannot be controlled.
- After starting the handle control program, if the handle cannot control the car, it may be caused by the wrong control mode of the handle. Long press the mode button of the handle for 15 seconds or so to switch modes. When the green light is steady on, press the start button again.
- jetson series support mode: PC/PCS mode (X-BOX mode can only control the car's front and rear motion)
- Raspberry PI series support mode: X-BOX mode



- After you reinsert the handle receiver or restart the mainboard, the handle will be reset to factory mode. If you cannot control it, you need to switch the mode again each time you insert, remove or restart the handle.