

### 3. USB wireless handle + mobile phone screen remote control tutorial

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##### 3.1. Open steps

###### 3.2. Precautions for using the handle

## 3.1. Open steps

- After booting into the program, first turn off the self-starting large program, you can refer to the second section of **【05. ROSMASTER Basic Control Tutorial】 "【2. Turn off the self-starting large program"】**.
- Open a terminal, type,

```
cd ~/Rosmaster/rosmaster  
python3 rosmaester_no_control.py
```

- Refer to the second section of **[7. Docker / 5. Enter the robot's docker container]**, open terminal
- Refer to the second section of **[9. Robot control course]**, enter instructions at the docker terminal to control the robot
- Refer to the "Mobile APP Remote Control Tutorial" in "03. Mobile Phone Remote Control Tutorial", connect the mobile phone to the rosmaester, and then you can see the screen transmitted by the rosmaester on the mobile phone screen.

Click here to enter the control screen



Click here for full screen viewing,



- Fix the phone on the handle, press the start button on the handle, and you can control it after you hear a beep.

### 3.2. Precautions for using the handle

- When connecting the USB handle receiver, it is recommended to connect it to the outermost USB-HUB expansion board instead of directly connecting it to the main board or the middle USB-HUB expansion board (X3plus). If it is directly connected to the main board or the middle USB-HUB expansion board (X3plus), due to the upper and lower aluminum alloy grille, it will seriously interfere with the signal reception of 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:





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- 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.