

3. 3. Handle remote control

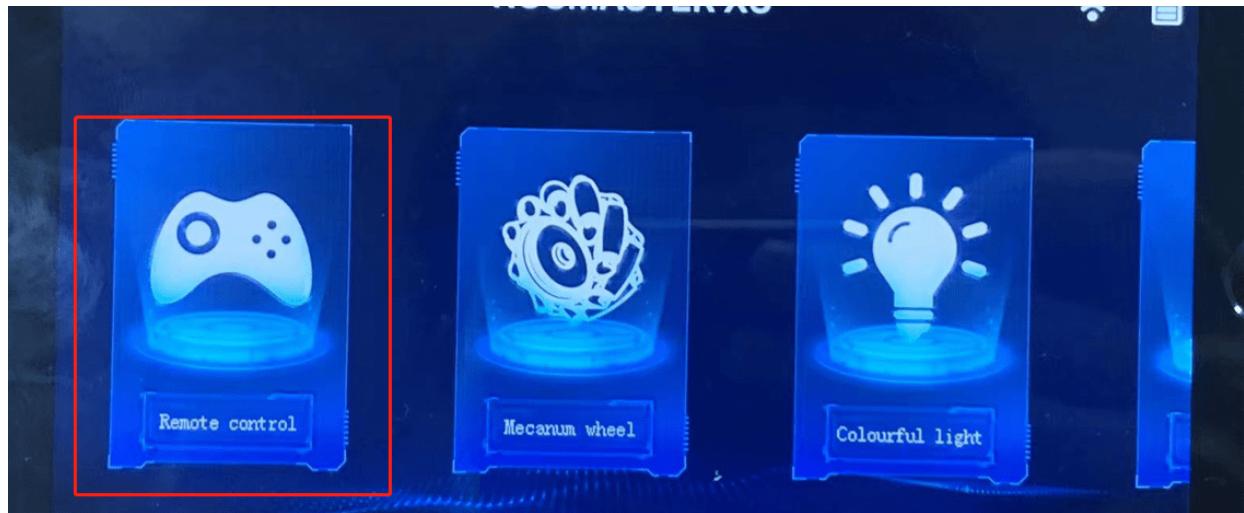
3.1 Steps to switch on

- After booting into the programme, turn off the big programme first, you can refer to "05. ROSMASTER basic control tutorial" in the second section "2. close the boot self-starting big programme".
- Open the terminal, input.

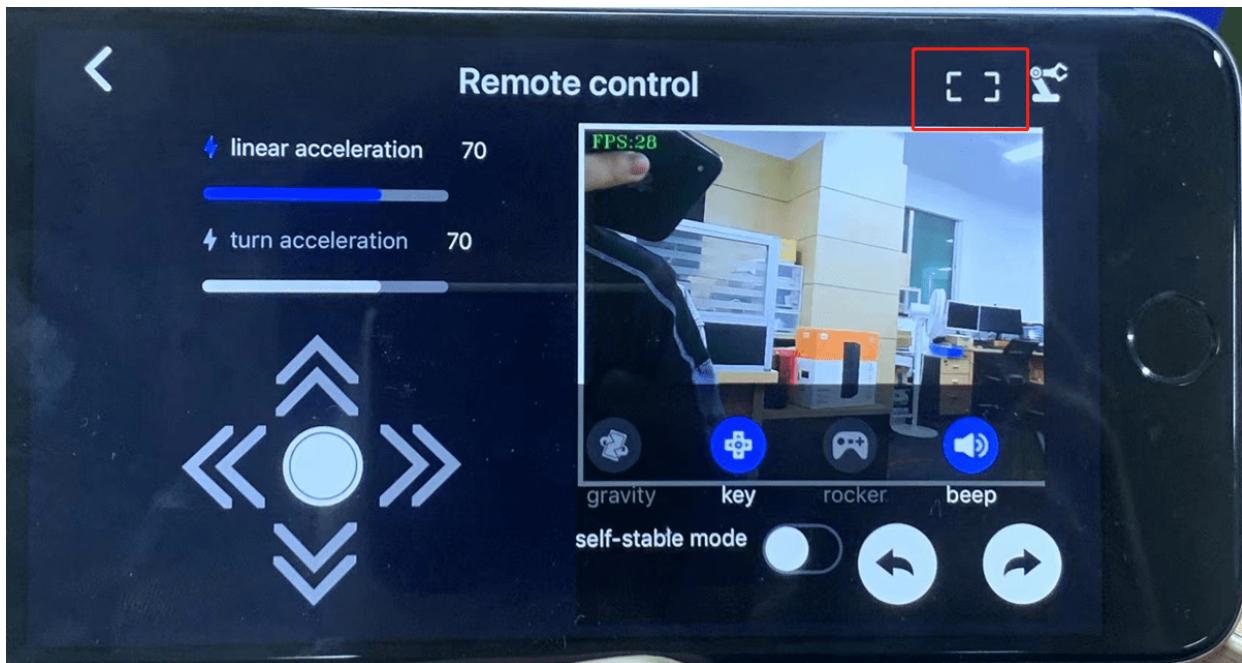
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cd ~/Rosmaster-App/rosmaster  
python3 rosmaster_no_control.py
```

- Refer to [7. Docker] - [5. enter the robot's docker container] enter the container and open multiple docker terminals
- Refer to [9. Robot Chassis and Control] - [Robot Control] to enter commands in the docker terminal to control the cart.
- Refer to "03. mobile phone remote control tutorial" in the "mobile phone APP remote control tutorial". let the mobile phone connect to rosmaster, then you can see the screen transmitted by rosmaster in the mobile phone screen, click here to enter the control screen.

Click here to enter the control screen



Click here for full-screen viewing.



- Fix the mobile phone on the handle, the handle presses the start button, after hearing a drop, you can control it.

Precautions for Handle Use

- When connecting the USB joystick receiver, it is recommended to connect it to the outermost USB-HUB expansion board, not directly to the motherboard or the middle USB-HUB expansion board (X3plus). If it is directly connected to the motherboard or the middle USB-HUB expansion board (X3plus), it will seriously interfere with the joystick signal reception due to the aluminium alloy grill on the top and bottom.
- After plugging and unplugging the joystick receiver head, it is necessary to restart the joystick programme, otherwise it will not be able to control the trolley.
- After starting the joystick control programme, if the joystick can not control the trolley, it may be caused by the incorrect control mode of the joystick, you can long press the joystick mode button for about 15 seconds to switch the mode, and when the green indicator light is always on, then press the start button again, if the buzzer sounds, it means that the switching is successful, if there is no response, you can long press the joystick mode button 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:





wireless controller

- After re-plugging the joystick receiver or rebooting the motherboard, the joystick will reset to factory mode, and if it is not controllable, the mode will need to be re-switched each time it is plugged in or rebooted.
- 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.