Camera Configuration Methods

1、View Version

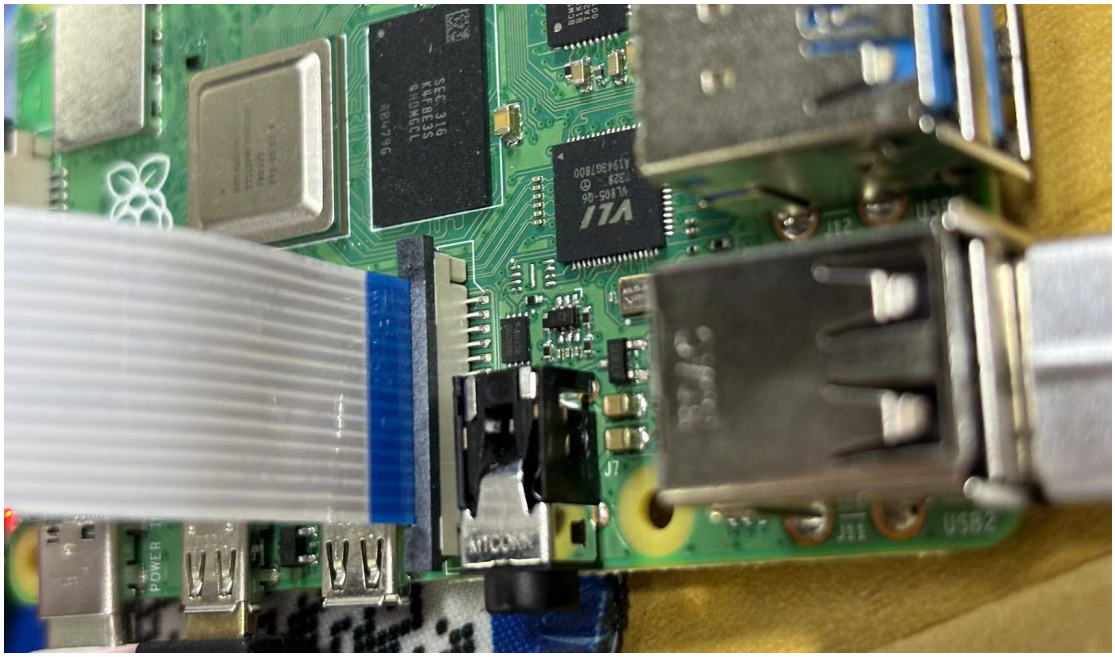
Current hardware version

Current software version

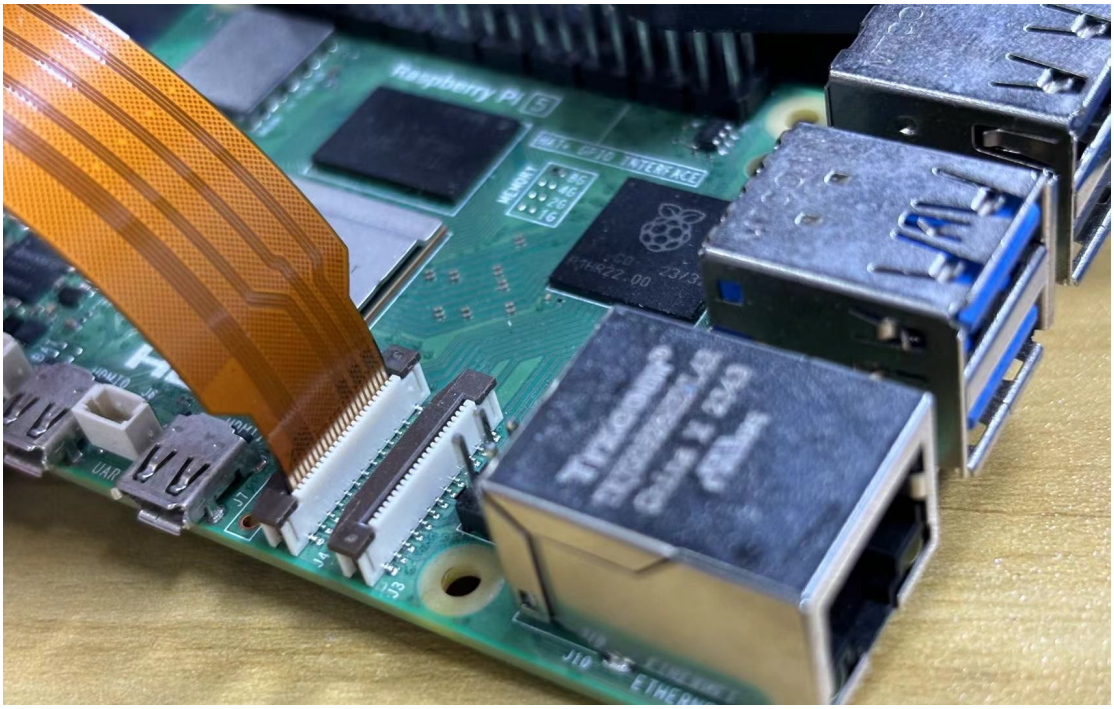
```
For further information, please refer to https://pinout.xyz/
pi@raspberrypi:~ $ uname -a
Linux raspberrypi 5.15.84-v7l+ #1613 SMP Thu Jan 5 12:01:26 GMT 2023 armv7l GNU/Linux
pi@raspberrypi:~ $
```

2、Connecting the cable to the Raspberry Pi

Gently lift up the black retaining tab and plug in the cable, noting that the blue end is towards the USB (if Raspberry Pi 3B, 4B)



(If it's a Raspberry Pi 5B, the gold finger end is facing the network port.)



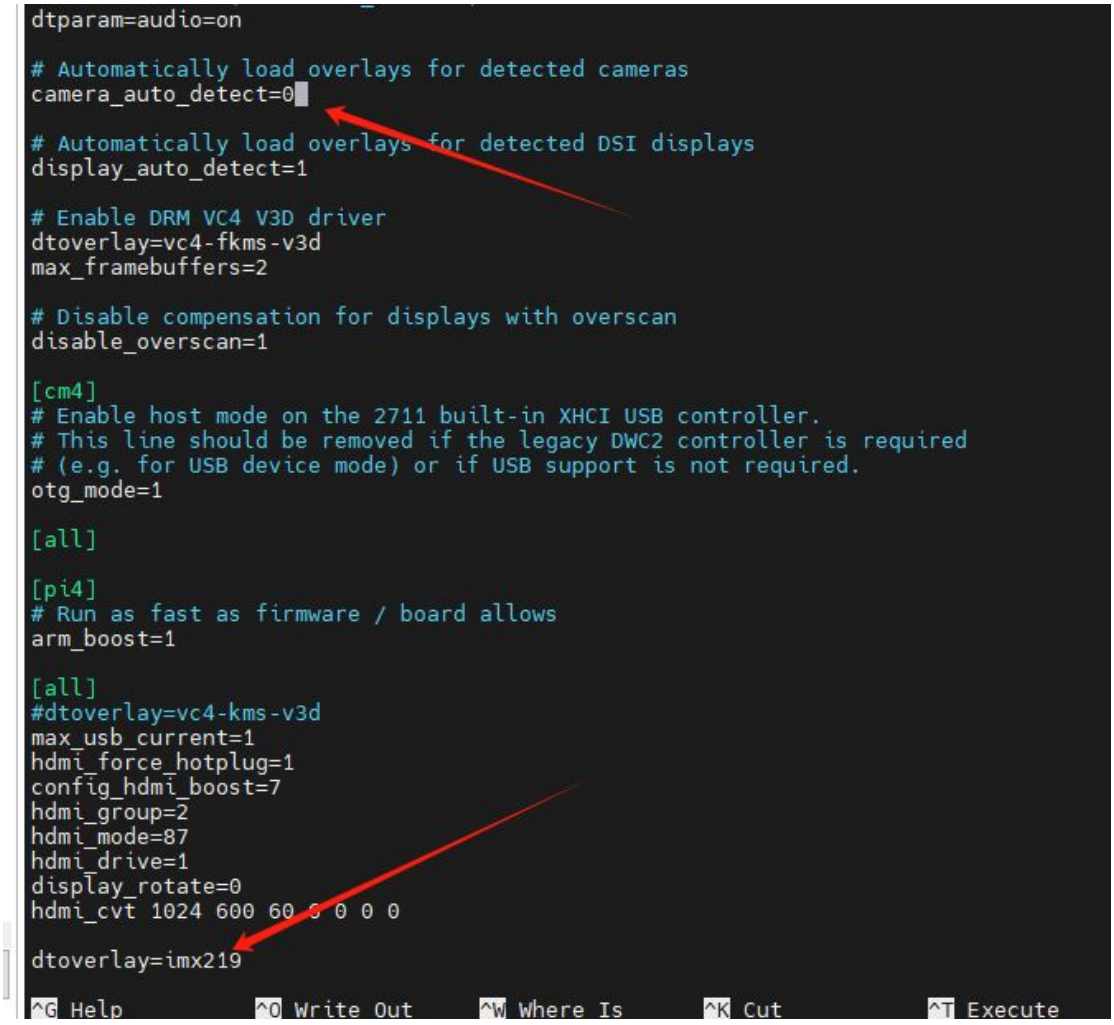
3、Adding Configuration Files

If it's a Raspberry Pi **4B**, **3B**, **Zero**, etc. motherboard

sudo nano /boot/config.txt

Find the camera-auto-detect=1 statement, change it to camera_

auto_detect=0 add dtoverlay=imx219



Ctrl+x Press y to enter, save and exit

to reboot the Raspberry Pi

sudo reboot

If it's a Raspberry Pi Gen 5 motherboard

sudo nano /boot/firmware/config.txt

Find camera-auto-detect=1 statement, change it to camera_auto_detect=0

If users need to access two camera calls at the same time, they can specify the camera by adding cam0 and cam1 after the corresponding camera configuration statement.。

For example, if the imx219 is connected to the cam0 interface and the ov5647 camera interface is connected to the cam1 interface at the same time, the imx219 will be connected to the cam1 interface.

dtoverlay=imx219,cam0

dtoverlay=ov5647,cam1

If only one camera is connected, connect to the camera0 port (the one near the network port is camera0)

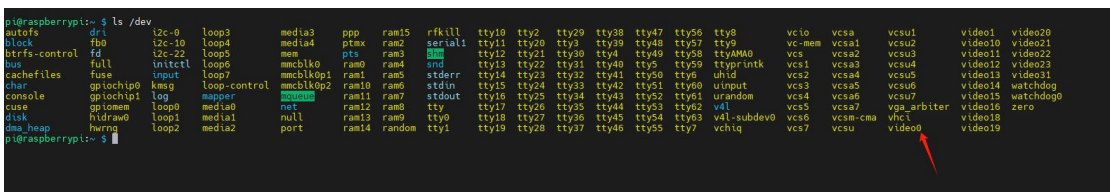
dtoverlay=imx219,cam0

Ctrl+x Press y to enter, save and exit to reboot the Raspberry Pi

sudo reboot

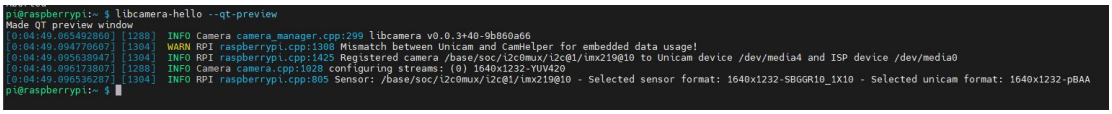
4、Calling the camera

Test ls /dev again, the video0 port is recognized, which means the camera is recognized.。



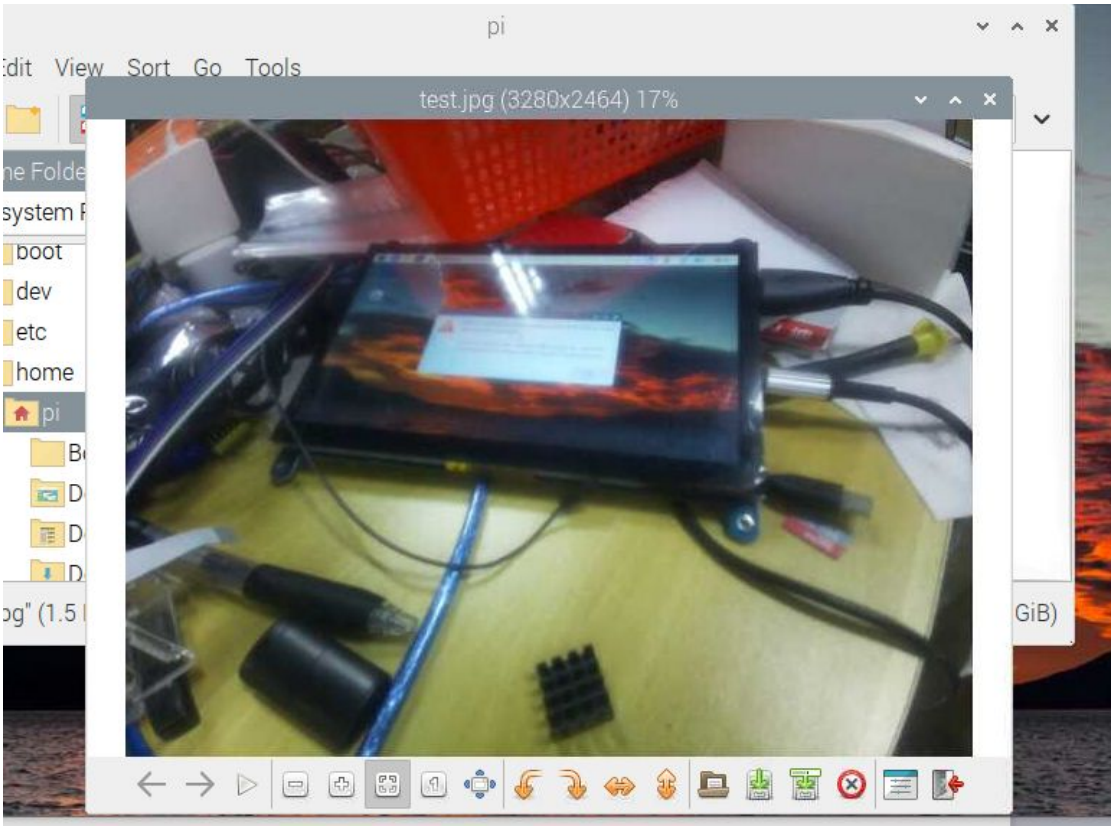
预览测试

libcamera-hello --qt-preview



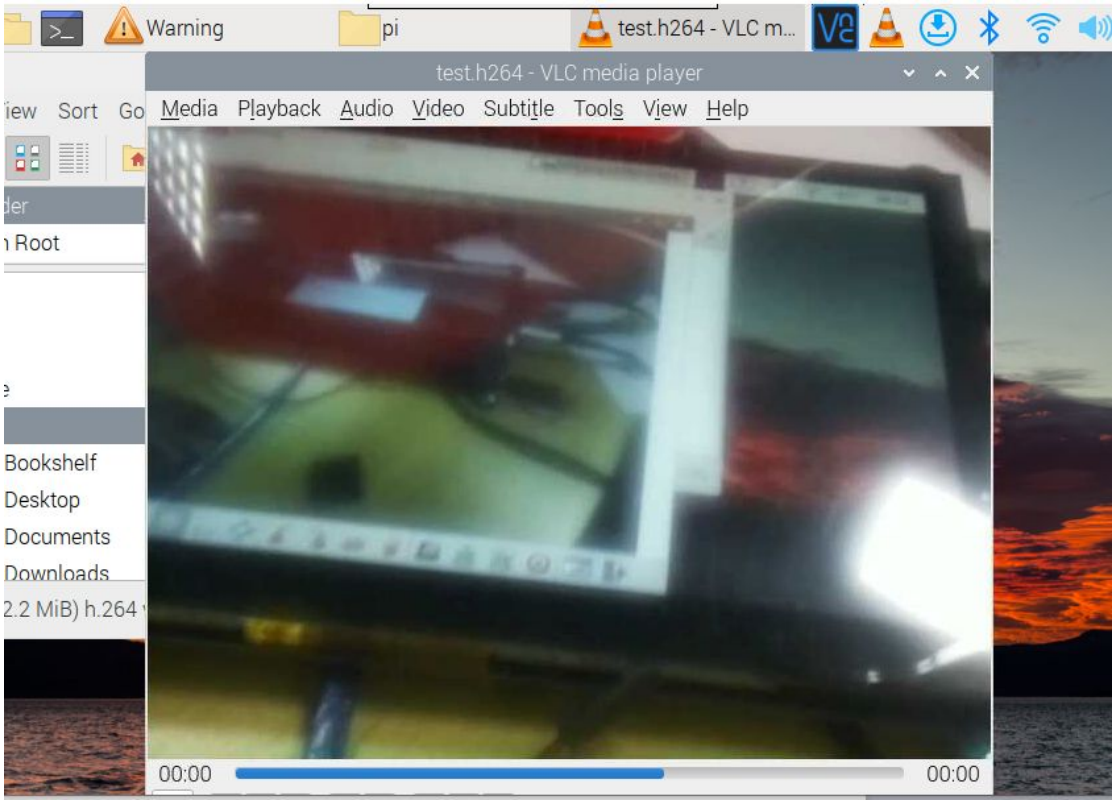
Ph**o**t**o** t**e**st

libcamera-jpeg -o test.jpg --qt-preview



Vid**eo** t**e**sting

libcamera-vid -t 10000 -o test.h264 --qt-preview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Media Playback Audio Video Subtitle Tools View Help
Root
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