

Test camera

Test camera

- 1.Onboard Camera Tutorial
- 2.USB camera test

USB Camera Testing Tutorial

1.Onboard Camera Tutorial

Note: Currently only cameras with IMX219 sensors are supported:

JETSON 系列 高清摄像头

NANO B01

ORIN NANO

ORIN NX

XAVIER NX

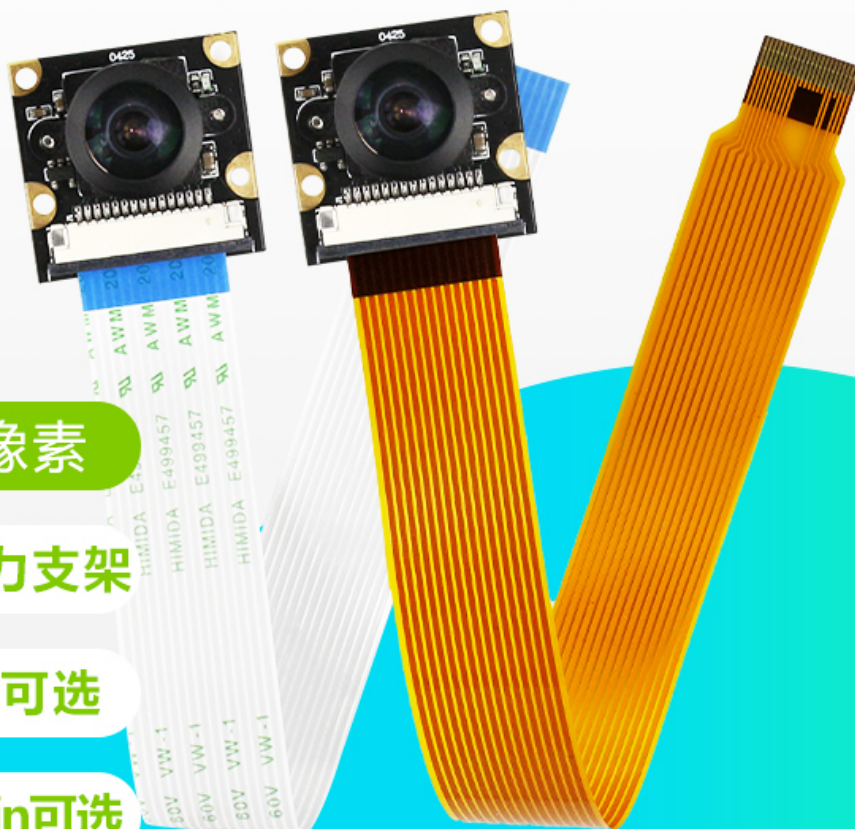
TX2-NX

800W像素

赠送亚克力支架

三种视角可选

15Pin/22Pin可选



How to test the camera and open the terminal of the Jetson orin NX

Write command: nvgstcapture-1.0, the camera will be up

The author briefly used several commands in the manual

1. --prev_res
Preview the resolution, height, and width of the video screen. If using a CSI camera, the range is 2 to 12 (5632x4224)

e.g., nvgstcapture-1.0 --prev-res=3

2. --cus-prev-res Custom preview resolution, width, and height, only supported for CSI cameras

e.g., nvgstcapture-1.0 --cus-prev-res=1920x1080

If multiple commands are used simultaneously! separate

To turn off the camera, simply enter q at the terminal and press Enter

If you want to capture an image, enter j on the terminal and press Enter. The image will be saved in the current directory

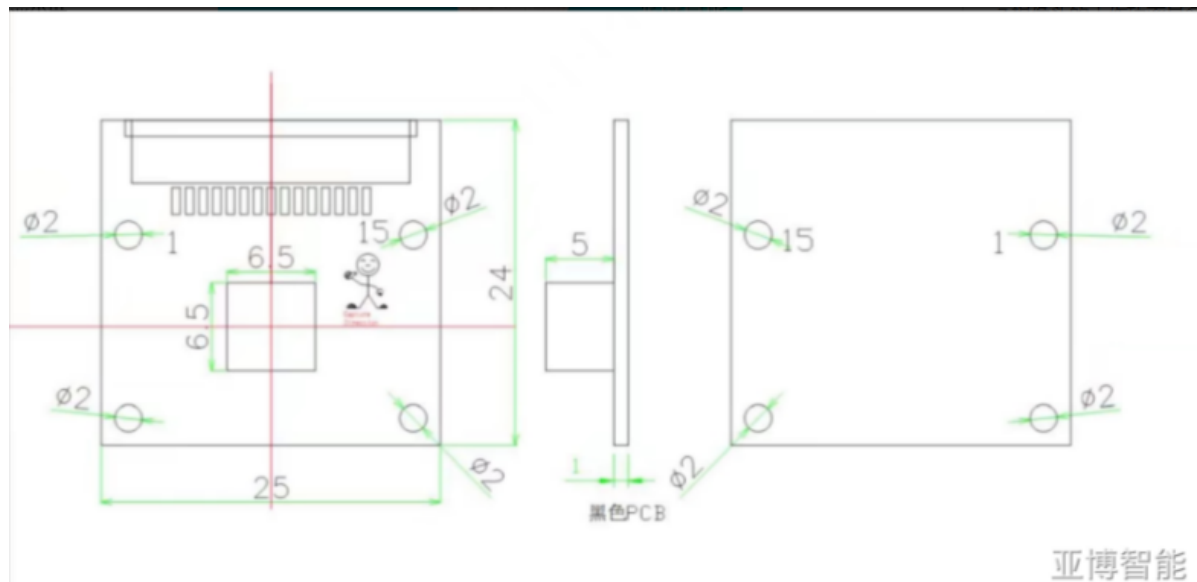
3. may also (Image of YAHBOOM version)

```
cd /home/jetson/GPIO_test  
python3 test_camera_csi.py #/dev/video0
```



frequently asked question:

- What are the hole spacing and size parameters of the camera



- Can the distortion coefficient of the CSI160 camera be given

Answer: There is no such distortion coefficient

2.USB camera test

USB Camera Testing Tutorial

The raspberry pie high-definition USB drive free camera I am using from Yabo Intelligent Technology also does not require a driver to be installed in the Ubuntu system under orin nx, making it easy to use and easy to configure.



input:

```
ls /dev/video*
```

Two cameras will be detected, /dev/video0 being the CSI camera included on the Orin NX development board, /dev/video1 is the USB camera that was just connected. If there is no CSI camera inserted, it should be video0.

Test camera:

1) Using Applications camorama

input:

```
sudo apt-get install camorama
```

After the installation is completed, enter the command in the terminal: (In practical applications, for convenience, I removed the onboard CSI camera, so the default is only the newly installed USB camera)


```
camorama
```

The video information can be displayed. This requires the USB camera to be changed to video0, so if both the CSI and USB cameras are connected, the USB camera is usually assigned to video1, and an error will be reported when starting.

2) Using Application Eggplant (cheese)


input:

```
sudo apt-get install cheese
```



and then

```
cheese
```



即可打开。

3. may also (Image of YAHBOOM version)

```
cd /home/jetson/GPIO_test  
python3 test_camera_usb.py #/dev/video0
```

