

《操作系统相关信息》

```
(base) dk-robot@ubuntu:~$ lsb_release -a
```

No LSB modules are available.

Distributor ID: Ubuntu

Description: Ubuntu 20.04.5 LTS

Release: 20.04

Codename: focal

《没插上相机 usb 时》

```
(base) dk-robot@ubuntu:~$ lsusb
```

Bus 002 Device 002: ID 0bda:0411 Realtek Semiconductor Corp. USB3.2 Hub

Bus 002 Device 001: ID 1d6b:0003 Linux Foundation 3.0 root hub

Bus 001 Device 003: ID 8087:0a2b Intel Corp.

Bus 001 Device 007: ID 3554:fc03

Bus 001 Device 002: ID 0bda:5411 Realtek Semiconductor Corp. USB2.1 Hub

Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub

《插上相机 usb 后，显然可以识别相机 usb 口信息，Bus 001 Device 013: ID 2bdf:0001》

```
(base) dk-robot@ubuntu:~$ lsusb
```

Bus 002 Device 002: ID 0bda:0411 Realtek Semiconductor Corp. USB3.2 Hub

Bus 002 Device 001: ID 1d6b:0003 Linux Foundation 3.0 root hub

Bus 001 Device 003: ID 8087:0a2b Intel Corp.

Bus 001 Device 007: ID 3554:fc03

Bus 001 Device 013: ID 2bdf:0001

Bus 001 Device 002: ID 0bda:5411 Realtek Semiconductor Corp. USB2.1 Hub

Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub

```
(base) dk-robot@ubuntu:~$ ls /dev/video*
```

ls: cannot access '/dev/video*': No such file or directory

```
(base) dk-robot@ubuntu:~$ sudo dmesg|grep video
```

```
[ 0.000000] Kernel command line: root=/dev/mmcblk0p1 rw rootwait rootfstype=ext4  
console=ttyTCU0,115200n8 console=tty0 fbcon=map:0 net.ifnames=0 video=efifb:off nv-  
auto-config
```

```
[ 0.391888] videodev: Linux video capture interface: v2.00
```

```
[ 5117.399417] usbcore: registered new interface driver uvcvideo
```

```
(base) dk-robot@ubuntu:~$ sudo dmesg | grep usb
```

```
[ 0.391260] usbcore: registered new interface driver usbfs
[ 0.391299] usbcore: registered new interface driver hub
[ 0.391342] usbcore: registered new device driver usb
[ 2.690948] usbcore: registered new interface driver r8152
[ 2.696679] usbcore: registered new interface driver asix
[ 2.702014] usbcore: registered new interface driver ax88179_178a
[ 2.708148] usbcore: registered new interface driver cdc_ether
[ 2.714089] usbcore: registered new interface driver net1080
[ 2.719694] usbcore: registered new interface driver cdc_subset
[ 2.725724] usbcore: registered new interface driver zaurus
[ 2.731166] usbcore: registered new interface driver cdc_ncm
[ 2.737101] usbcore: registered new interface driver aqc111
[ 2.758494] tegra-xusb 3610000.xhci: Adding to iommu group 0
[ 2.764723] usbcore: registered new interface driver uas
[ 2.769427] usbcore: registered new interface driver usb-storage
[ 2.786570] usbcore: registered new interface driver xpad
[ 2.981968] vdd-usb-3v3: supplied by regulator-dummy
[ 3.851322] usbcore: registered new interface driver usbhid
[ 3.851461] usbhid: USB HID core driver
[ 4.012662] usbcore: registered new interface driver snd-usb-audio
[ 5.221481] tegra-xusb 3610000.xhci: Firmware timestamp: 2022-03-16 11:07:43 UTC,
Version: 60.13 release
[ 5.224816] tegra-xusb 3610000.xhci: xHCI Host Controller
[ 5.230330] tegra-xusb 3610000.xhci: new USB bus registered, assigned bus number 1
[ 5.238278] tegra-xusb 3610000.xhci: hcc params 0x0184ff25 hci version 0x110 quirks
0x00000000000050810
[ 5.247157] tegra-xusb 3610000.xhci: irq 187, io mem 0x03610000
[ 5.253083] usb usb1: New USB device found, idVendor=1d6b, idProduct=0002,
bcdDevice= 5.10
[ 5.261387] usb usb1: New USB device strings: Mfr=3, Product=2, SerialNumber=1
[ 5.268584] usb usb1: Product: xHCI Host Controller
[ 5.273535] usb usb1: Manufacturer: Linux 5.10.104-tegra xhci-hcd
[ 5.279572] usb usb1: SerialNumber: 3610000.xhci
[ 5.292477] tegra-xusb 3610000.xhci: xHCI Host Controller
[ 5.297778] tegra-xusb 3610000.xhci: new USB bus registered, assigned bus number 2
[ 5.305386] tegra-xusb 3610000.xhci: Host supports USB 3.1 Enhanced SuperSpeed
[ 5.312947] usb usb2: New USB device found, idVendor=1d6b, idProduct=0003,
bcdDevice= 5.10
[ 5.320972] usb usb2: New USB device strings: Mfr=3, Product=2, SerialNumber=1
[ 5.328265] usb usb2: Product: xHCI Host Controller
[ 5.332947] usb usb2: Manufacturer: Linux 5.10.104-tegra xhci-hcd
[ 5.339176] usb usb2: SerialNumber: 3610000.xhci
[ 5.403203] usb-conn-gpio 3520000.xusb_padctl:ports:usb2-0:connector: repeated role:
0
```

```

[ 5.555762] usb 1-2: new high-speed USB device number 2 using tegra-xusb
[ 5.711871] usb 1-2: New USB device found, idVendor=0bda, idProduct=5411,
bcdDevice= 1.01
[ 5.718482] usb 1-2: New USB device strings: Mfr=1, Product=2, SerialNumber=0
[ 5.734297] usb 1-2: Product: USB2.1 Hub
[ 5.734302] usb 1-2: Manufacturer: Generic
[ 5.832133] usb 2-3: new SuperSpeed Gen 1 USB device number 2 using tegra-xusb
[ 5.868070] usb 2-3: New USB device found, idVendor=0bda, idProduct=0411,
bcdDevice= 1.01
[ 5.877816] usb 2-3: New USB device strings: Mfr=1, Product=2, SerialNumber=0
[ 5.877821] usb 2-3: Product: USB3.2 Hub
[ 5.877825] usb 2-3: Manufacturer: Generic
[ 5.991779] usb 1-3: new full-speed USB device number 3 using tegra-xusb
[ 6.149782] usb 1-3: New USB device found, idVendor=8087, idProduct=0a2b,
bcdDevice= 0.10
[ 6.149788] usb 1-3: New USB device strings: Mfr=0, Product=0, SerialNumber=0
[ 6.228951] usb 1-2.1: new full-speed USB device number 4 using tegra-xusb
[ 6.330189] usb 1-2.1: New USB device found, idVendor=3554, idProduct=fc03,
bcdDevice= 7.90
[ 6.331707] usb 1-2.1: New USB device strings: Mfr=1, Product=2, SerialNumber=0
[ 6.333182] usb 1-2.1: Product: 2.4G Receiver
[ 6.334542] usb 1-2.1: Manufacturer: CX
[ 6.339907] input: CX 2.4G Receiver as /devices/platform/3610000.xhci/usb1/1-2/1-
2.1/1-2.1:1.0/0003:3554:FC03.0001/input/input1
[ 6.400146] hid-generic 0003:3554:FC03.0001: input,hidraw0: USB HID v1.10 Keyboard
[CX 2.4G Receiver] on usb-3610000.xhci-2.1/input0
[ 6.404915] input: CX 2.4G Receiver Mouse as /devices/platform/3610000.xhci/usb1/1-
2/1-2.1/1-2.1:1.1/0003:3554:FC03.0002/input/input2
[ 6.406753] input: CX 2.4G Receiver as /devices/platform/3610000.xhci/usb1/1-2/1-
2.1/1-2.1:1.1/0003:3554:FC03.0002/input/input3
[ 6.408468] input: CX 2.4G Receiver Consumer Control as
/devices/platform/3610000.xhci/usb1/1-2/1-2.1/1-
2.1:1.1/0003:3554:FC03.0002/input/input4
[ 6.474649] input: CX 2.4G Receiver System Control as
/devices/platform/3610000.xhci/usb1/1-2/1-2.1/1-
2.1:1.1/0003:3554:FC03.0002/input/input5
[ 6.490986] hid-generic 0003:3554:FC03.0002: input,hiddev96,hidraw1: USB HID v1.10
Mouse [CX 2.4G Receiver] on usb-3610000.xhci-2.1/input1
[ 13.287649] usb0: HOST MAC d2:24:e7:e4:50:1a
[ 13.287657] usb0: MAC d2:24:e7:e4:50:1b
[ 13.345971] l4tbr0: port 2(usb0) entered blocking state
[ 13.346003] l4tbr0: port 2(usb0) entered disabled state
[ 13.346620] device usb0 entered promiscuous mode
[ 13.951699] usbcore: registered new interface driver btusb

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[2189.921724] usb 1-2.3: new high-speed USB device number 5 using tegra-xusb
[2190.024097] usb 1-2.3: New USB device found, idVendor=2bdf, idProduct=0001, bcdDevice= 4.09
[2190.024111] usb 1-2.3: New USB device strings: Mfr=5, Product=3, SerialNumber=6
[2190.024119] usb 1-2.3: Product: FHL-D435i
[2190.024125] usb 1-2.3: Manufacturer: Hikrobot
[2190.024132] usb 1-2.3: SerialNumber: 00L18731482
[2190.466431] usb 1-2.3: USB disconnect, device number 5
[2191.294210] usb 2-3.3: new SuperSpeed Gen 1 USB device number 3 using tegra-xusb
[2191.316035] usb 2-3.3: New USB device found, idVendor=2bdf, idProduct=0001, bcdDevice= 4.09
[2191.316048] usb 2-3.3: New USB device strings: Mfr=5, Product=3, SerialNumber=6
[2191.316056] usb 2-3.3: Product: FHL-D435i
[2191.316076] usb 2-3.3: Manufacturer: Hikrobot
[2191.316083] usb 2-3.3: SerialNumber: 00L18731482
[2651.827195] usb 2-3.3: USB disconnect, device number 3
[2655.874439] usb 1-2.1: USB disconnect, device number 4
[2689.025737] usb 1-2.4: new high-speed USB device number 6 using tegra-xusb
[2689.128052] usb 1-2.4: New USB device found, idVendor=2bdf, idProduct=0001, bcdDevice= 4.09
[2689.128063] usb 1-2.4: New USB device strings: Mfr=5, Product=3, SerialNumber=6
[2689.128068] usb 1-2.4: Product: FHL-D435i
[2689.128072] usb 1-2.4: Manufacturer: Hikrobot
[2689.128077] usb 1-2.4: SerialNumber: 00L18731482
[2689.666510] usb 1-2.4: USB disconnect, device number 6
[2690.422218] usb 2-3.4: new SuperSpeed Gen 1 USB device number 4 using tegra-xusb
[2690.444024] usb 2-3.4: New USB device found, idVendor=2bdf, idProduct=0001, bcdDevice= 4.09
[2690.444034] usb 2-3.4: New USB device strings: Mfr=5, Product=3, SerialNumber=6
[2690.444039] usb 2-3.4: Product: FHL-D435i
[2690.444043] usb 2-3.4: Manufacturer: Hikrobot
[2690.444048] usb 2-3.4: SerialNumber: 00L18731482
[3158.554585] usb 1-2.3: new full-speed USB device number 7 using tegra-xusb
[3158.660772] usb 1-2.3: New USB device found, idVendor=3554, idProduct=fc03, bcdDevice= 7.90
[3158.660783] usb 1-2.3: New USB device strings: Mfr=1, Product=2, SerialNumber=0
[3158.660789] usb 1-2.3: Product: 2.4G Receiver
[3158.660793] usb 1-2.3: Manufacturer: CX
[3158.665293] input: CX 2.4G Receiver as /devices/platform/3610000.xhci/usb1/1-2/1-2.3/1-2.3:1.0/0003:3554:FC03.0003/input/input11
[3158.723332] hid-generic 0003:3554:FC03.0003: input,hidraw0: USB HID v1.10 Keyboard [CX 2.4G Receiver] on usb-3610000.xhci-2.3/input0
[3158.728822] input: CX 2.4G Receiver Mouse as /devices/platform/3610000.xhci/usb1/1-2/1-2.3/1-2.3:1.1/0003:3554:FC03.0004/input/input12

[3158.729247] input: CX 2.4G Receiver as /devices/platform/3610000.xhci/usb1/1-2/1-2.3/1-2.3:1.1/0003:3554:FC03.0004/input/input13

[3158.729568] input: CX 2.4G Receiver Consumer Control as /devices/platform/3610000.xhci/usb1/1-2/1-2.3/1-2.3:1.1/0003:3554:FC03.0004/input/input14

[3158.787052] input: CX 2.4G Receiver System Control as /devices/platform/3610000.xhci/usb1/1-2/1-2.3/1-2.3:1.1/0003:3554:FC03.0004/input/input15

[3158.787601] hid-generic 0003:3554:FC03.0004: input,hiddev96,hidraw1: USB HID v1.10 Mouse [CX 2.4G Receiver] on usb-3610000.xhci-2.3/input1

[3274.883275] usb 2-3.4: USB disconnect, device number 4

[3370.593259] usb 1-2.1: new high-speed USB device number 8 using tegra-xusb

[3370.695503] usb 1-2.1: New USB device found, idVendor=2bdf, idProduct=0001, bcdDevice= 4.09

[3370.695515] usb 1-2.1: New USB device strings: Mfr=5, Product=3, SerialNumber=6

[3370.695520] usb 1-2.1: Product: FHL-D435i

[3370.695543] usb 1-2.1: Manufacturer: Hikrobot

[3370.695551] usb 1-2.1: SerialNumber: 00L18731482

[3371.138451] usb 1-2.1: USB disconnect, device number 8

[3371.933612] usb 2-3.1: new SuperSpeed Gen 1 USB device number 5 using tegra-xusb

[3371.955228] usb 2-3.1: New USB device found, idVendor=2bdf, idProduct=0001, bcdDevice= 4.09

[3371.955239] usb 2-3.1: New USB device strings: Mfr=5, Product=3, SerialNumber=6

[3371.955244] usb 2-3.1: Product: FHL-D435i

[3371.955248] usb 2-3.1: Manufacturer: Hikrobot

[3371.955253] usb 2-3.1: SerialNumber: 00L18731482

[3717.747123] usb 2-3.1: USB disconnect, device number 5

[3935.073816] usb 1-2.4: new high-speed USB device number 9 using tegra-xusb

[3935.176024] usb 1-2.4: New USB device found, idVendor=2bdf, idProduct=0001, bcdDevice= 4.09

[3935.176039] usb 1-2.4: New USB device strings: Mfr=5, Product=3, SerialNumber=6

[3935.176046] usb 1-2.4: Product: FHL-D435i

[3935.176054] usb 1-2.4: Manufacturer: Hikrobot

[3935.176093] usb 1-2.4: SerialNumber: 00L18731482

[3935.618542] usb 1-2.4: USB disconnect, device number 9

[3936.422248] usb 2-3.4: new SuperSpeed Gen 1 USB device number 6 using tegra-xusb

[3936.447989] usb 2-3.4: New USB device found, idVendor=2bdf, idProduct=0001, bcdDevice= 4.09

[3936.448001] usb 2-3.4: New USB device strings: Mfr=5, Product=3, SerialNumber=6

[3936.448010] usb 2-3.4: Product: FHL-D435i

[3936.448017] usb 2-3.4: Manufacturer: Hikrobot

[3936.448053] usb 2-3.4: SerialNumber: 00L18731482

[3985.618931] usb 2-3.4: USB disconnect, device number 6

[4035.681231] usb 1-2.1: new high-speed USB device number 10 using tegra-xusb

[4035.782937] usb 1-2.1: New USB device found, idVendor=2bdf, idProduct=0001, bcdDevice= 4.09
[4035.782950] usb 1-2.1: New USB device strings: Mfr=5, Product=3, SerialNumber=6
[4035.782958] usb 1-2.1: Product: FHL-D435i
[4035.782965] usb 1-2.1: Manufacturer: Hikrobot
[4035.782972] usb 1-2.1: SerialNumber: 00L18731482
[4036.226418] usb 1-2.1: USB disconnect, device number 10
[4037.225168] usb 1-2.1: new high-speed USB device number 11 using tegra-xusb
[4037.326921] usb 1-2.1: New USB device found, idVendor=2bdf, idProduct=0001, bcdDevice= 4.09
[4037.326933] usb 1-2.1: New USB device strings: Mfr=5, Product=3, SerialNumber=6
[4037.326938] usb 1-2.1: Product: FHL-D435i
[4037.326942] usb 1-2.1: Manufacturer: Hikrobot
[4037.326947] usb 1-2.1: SerialNumber: 00L18731482
[4093.570418] usb 1-2.1: USB disconnect, device number 11
[4135.776400] usb 1-2.1: new high-speed USB device number 12 using tegra-xusb
[4135.882449] usb 1-2.1: New USB device found, idVendor=2bdf, idProduct=0001, bcdDevice= 4.09
[4135.882462] usb 1-2.1: New USB device strings: Mfr=5, Product=3, SerialNumber=6
[4135.882468] usb 1-2.1: Product: FHL-D435i
[4135.882472] usb 1-2.1: Manufacturer: Hikrobot
[4135.882476] usb 1-2.1: SerialNumber: 00L18731482
[4136.322453] usb 1-2.1: USB disconnect, device number 12
[4137.312326] usb 1-2.1: new high-speed USB device number 13 using tegra-xusb
[4137.414348] usb 1-2.1: New USB device found, idVendor=2bdf, idProduct=0001, bcdDevice= 4.09
[4137.414360] usb 1-2.1: New USB device strings: Mfr=5, Product=3, SerialNumber=6
[4137.414368] usb 1-2.1: Product: FHL-D435i
[4137.414375] usb 1-2.1: Manufacturer: Hikrobot
[4137.414382] usb 1-2.1: SerialNumber: 00L18731482
[5117.399417] usbcore: registered new interface driver uvcvideo