

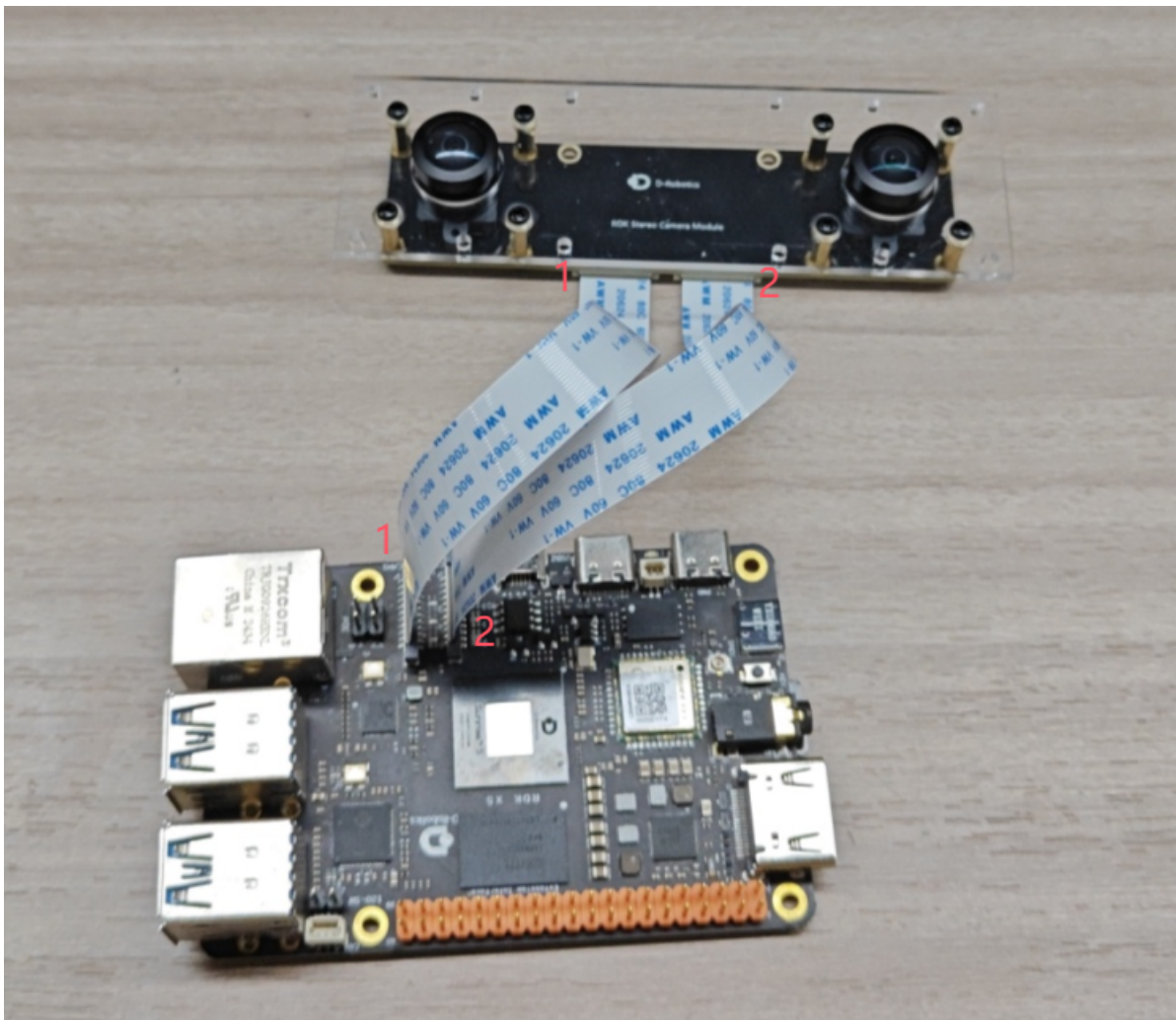
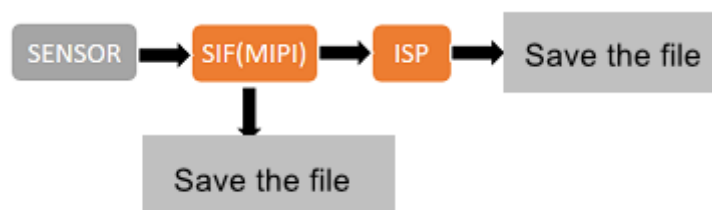
Local save camera images

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1. Experimental preparation

This example `vio_capture` implements the `MIPI` camera image acquisition and local storage of images in two formats: `RAW` and `YUV`. The example flow chart is as follows:



- When the development board is powered off, connect the **MIPI** camera to the development board (with the blue side facing the HDMI interface).
- Connect the development board and the monitor via an HDMI cable
- Power on the development board and log in to the system

2. How to run

The sample code is provided in source code form and needs to be compiled and run using the **make** command. The steps are as follows:

```
sunrise@ubuntu:~$ cd /app/cdev_demo/vio_capture/
sunrise@ubuntu:/app/cdev_demo/vio_capture$ sudo make
sunrise@ubuntu:/app/cdev_demo/vio_capture$ sudo ./capture -b 16 -c 10 -h 1080 -w 1920
```

Parameter description:

- -b: RAW image bit number, IMX219 / IMX477 / OV5647 are all set to 16, only a few camera sensors need to be set to 8
- -c: Number of images to be saved
- -w: Width of saved images
- -h: Height of saved images

3. Expected results

After the program runs correctly, when the terminal stops printing, enter 0 or 1, then press Enter to start a random camera. The current directory saves the specified number of image files.

The **RAW** format is named in the **raw_*.raw** format, and the **YUV** format is named in the **yuv_*.yuv** format. The running log is as follows:

```
sunrise@ubuntu:/app/cdev_demo/vio_capture$ sudo ./capture -b 16 -c 10 -h 1080 -w 1920
[INFO] board_id is 301, not need skip sci1.
Searching camera sensor on device: /proc/device-tree/soc/cam/vcon@0 i2c bus: 6
mipi rx phy: 0
INFO: Found sensor name:ov5647 on mipi rx csi 0, i2c addr 0x36,
config_file:linear_1920x1080_raw10_30fps_2lane.c
2000/01/01 08:18:54.877 !INFO [CamInitParam][0139]Setting VSE channel-0:
input_width:1920, input_height:1080, dst_w:1920, dst_h:1080
2000/01/01 08:18:54.877 !INFO [CamInitParam][0139]Setting VSE channel-1:
input_width:1920, input_height:1080, dst_w:1920, dst_h:1080
... omission ...
capture time :0
temp_ptr.data_size[0]:4147200
capture time :1
temp_ptr.data_size[0]:4147200
capture time :2
temp_ptr.data_size[0]:4147200
... omission ...
capture time :8
temp_ptr.data_size[0]:4147200
```

```
capture time :9  
temp_ptr.data_size[0]:4147200  
ov5647 sensor stop
```