

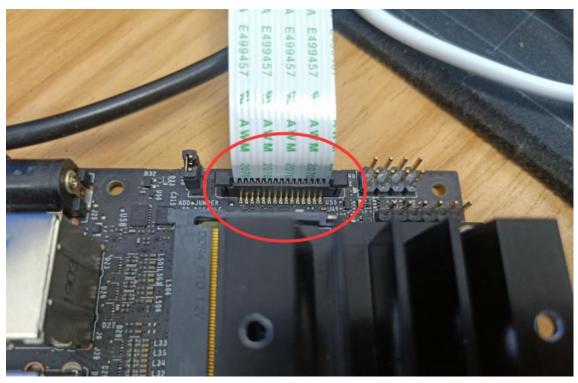
On-board camera tutorial

Note: Only supports **IMX219** sensor camera.

1. About wiring

Please complete the wiring between the camera module and the Jetson Nano board as shown below.

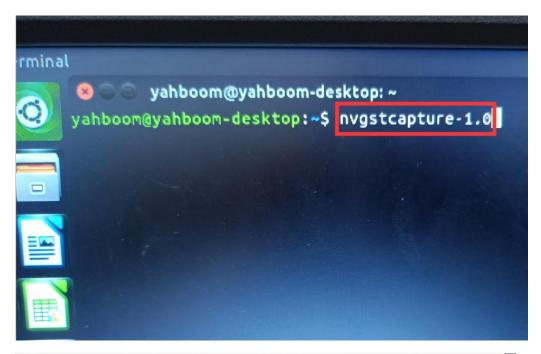




2. Test the camera

We need to open the terminal of Jetson Nano and input command: nvgstcapture-1.0
Then, the camera will start.







2.2 We can use several commands in the manual.

1) --prev res

This command is be used to preview the resolution, height and width of the video, CSI camera with a range of 2 to 12 (5632x4224)

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

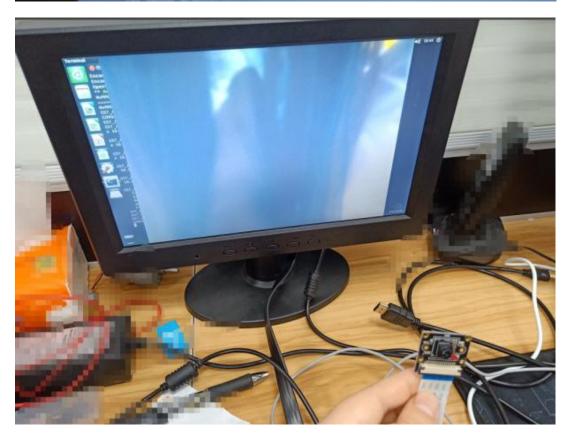
As shown below:



```
yahboom@yahboom-desktop:-
yahboom@yahboom-desktop:-
Encoder null, cannot set bltrate!
Encoder Profile = High
Supported resolutions in case of ARGUS Camera
(2): 640x488
(3): 1280x720
(4): 1920x1088
(5): 2104x1560
(6): 2592x1944
(7): 2616x1472
(8): 3840x2160
(9): 3890x2192
(18): 4268x3120
(11): 5632x3168
(12): 5632x3168
(12): 5632x3224

Runtime ARGUS Camera Commands:

Welp: 'h'
Ouit: 'g'
Ouit: '
```



2) --cus-prev-res

This command is be used to custom preview resolution, width and height, only support CSI camera

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

As shown below:



```
yahboom@yahboom-desktop:~

CONSUMER: Producer has connected; continuing.

^C** Message: 18:42:40.038: <_intr_handler:4197> User Interrupted..

Terminating the camera pipeline ...

GST_ARGUS: Cleaning up

CONSUMER: Done Success

GST_ARGUS: Done Success

** Message: 18:42:40.421: <main:4689> Capture completed

** Message: 18:42:40.421: <main:4658> Camera application will now exit

GST_ARGUS:

PowerServiceHwVic::cleanupResources

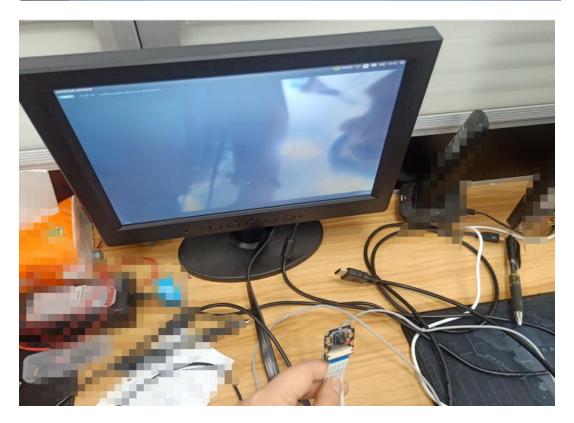
yahboom@yahboom-desktop:-5 nvgstcapture-1.8 --cus-prev-res=1920x1080

Encoder null, cannot set bitrate!

Encoder Profile = High

Supported resolutions in case of ARGUS Camera

(2): 640x480
(3): 1280x720
(4): 1920x1080
(5): 2104x1560
(6): 2592x1944
(7): 2016x1472
(8): 3840x2160
(10): 4208x3120
(11): 5032x3168
(12): 5032x3168
(12): 5032x3168
(12): 5032x3168
(12): 5032x4224
```



If multiple commands are used at the same time, we need to use ! separated. If you want to turn off the camera, we need to input "q" directly in the terminal and press "Enter".

If you want to capture the picture, we need to input "j" in the terminal and press "Enter". The picture will be saved in the current directory.