

Galaxy Camera Software Installation

Download the following zip files from Canvas:

- Galaxy_Camera_SDK.zip
- Galaxy_Camera_Python.zip

Galaxy Camera SDK Installation

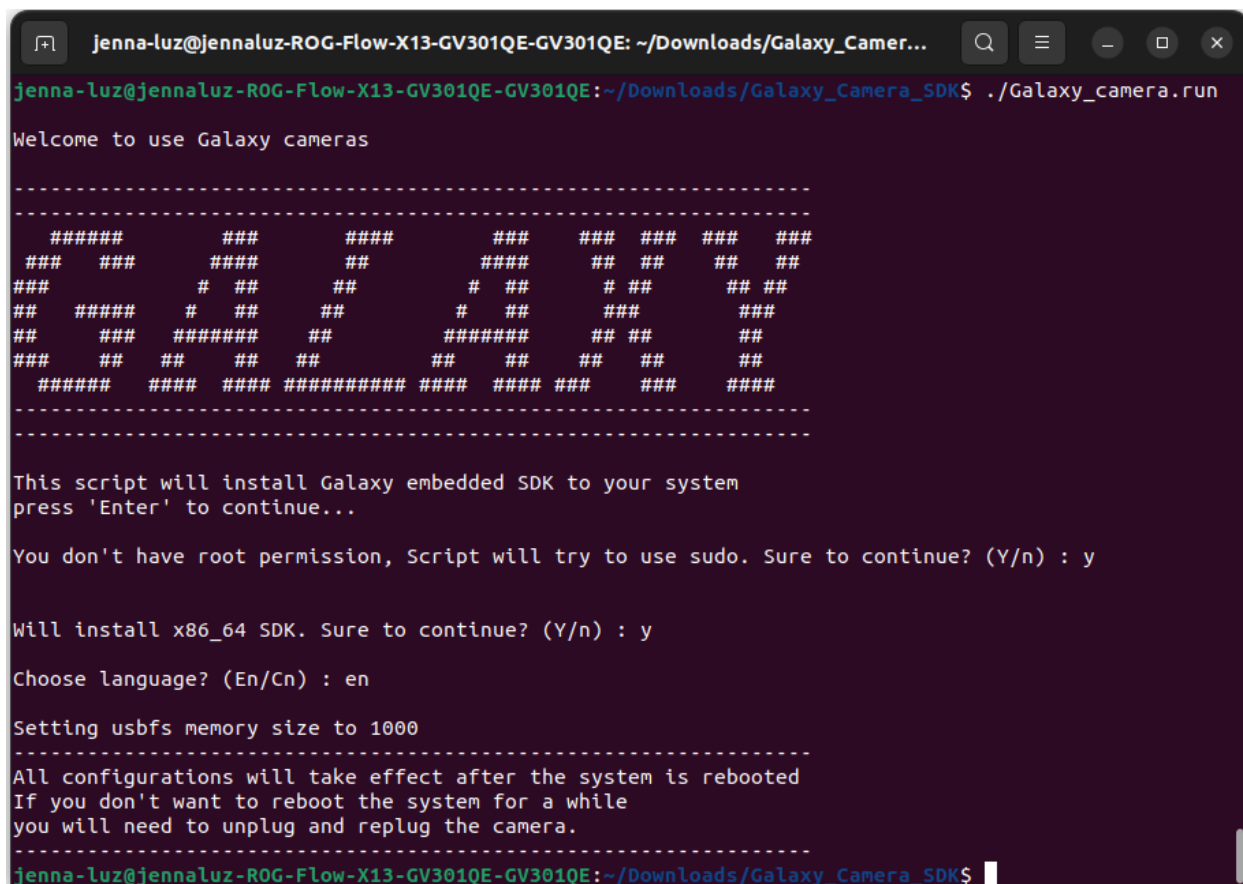
1. Unzip Galaxy_Camera_SDK.zip

```
$ unzip Galaxy_Camera_SDK.zip
```

2. Install the SDK

```
$ cd Galaxy_SDK  
$ chmod +x Galaxy_camera.run  
$ ./Galaxy_camera.run
```

The following output should be shown.



```
jenna-luz@jennaluz-ROG-Flow-X13-GV301QE-GV301QE: ~/Downloads/Galaxy_Camer...  
jenna-luz@jennaluz-ROG-Flow-X13-GV301QE-GV301QE: ~/Downloads/Galaxy_Camera_SDK$ ./Galaxy_camera.run  
Welcome to use Galaxy cameras  
  
-----  
#####      ###      ####      ###      ###      ###      ###  
###  ###      ####      ##      #####      ##  ##  ##  ##  
###      #  ##      ##      #  ##      #  ##      ##  ##  
##  #####      #  ##      ##      #  ##      ###      ###  
##      ##      #####      ##      #####      ##  ##      ##  
###  ##  ##  ##  ##      ##  ##  ##  ##  ##  
#####  ####  ####  #####  #####  ####  ###  ####  
-----  
  
This script will install Galaxy embedded SDK to your system  
press 'Enter' to continue...  
  
You don't have root permission, Script will try to use sudo. Sure to continue? (Y/n) : y  
  
Will install x86_64 SDK. Sure to continue? (Y/n) : y  
  
Choose language? (En/Cn) : en  
  
Setting usbfs memory size to 1000  
-----  
All configurations will take effect after the system is rebooted  
If you don't want to reboot the system for a while  
you will need to unplug and replug the camera.  
-----  
jenna-luz@jennaluz-ROG-Flow-X13-GV301QE-GV301QE: ~/Downloads/Galaxy_Camera_SDK$
```

Galaxy Camera Python Module Installation

1. Unzip Galaxy_Camera_Python.zip

```
$ unzip Galaxy_Camera_Python.zip
```

2. Install the Python module

```
$ cd Galaxy_Camera_Python/api  
$ python3 setup.py build  
$ sudo python3 setup.py install
```

Galaxy Camera Software Operation

GalaxyView provides a GUI to control the Galaxy Camera and capture images.

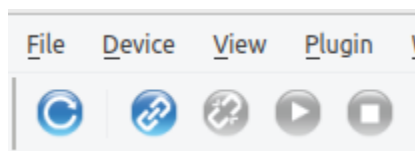
1. Open GalaxyView

```
$ cd Galaxy_Camera_SDK/Galaxy_camera/bin  
$ ./GalaxyView
```

2. Select MER2-1220-9GC-P(172.29.208.10) (this is our camera).



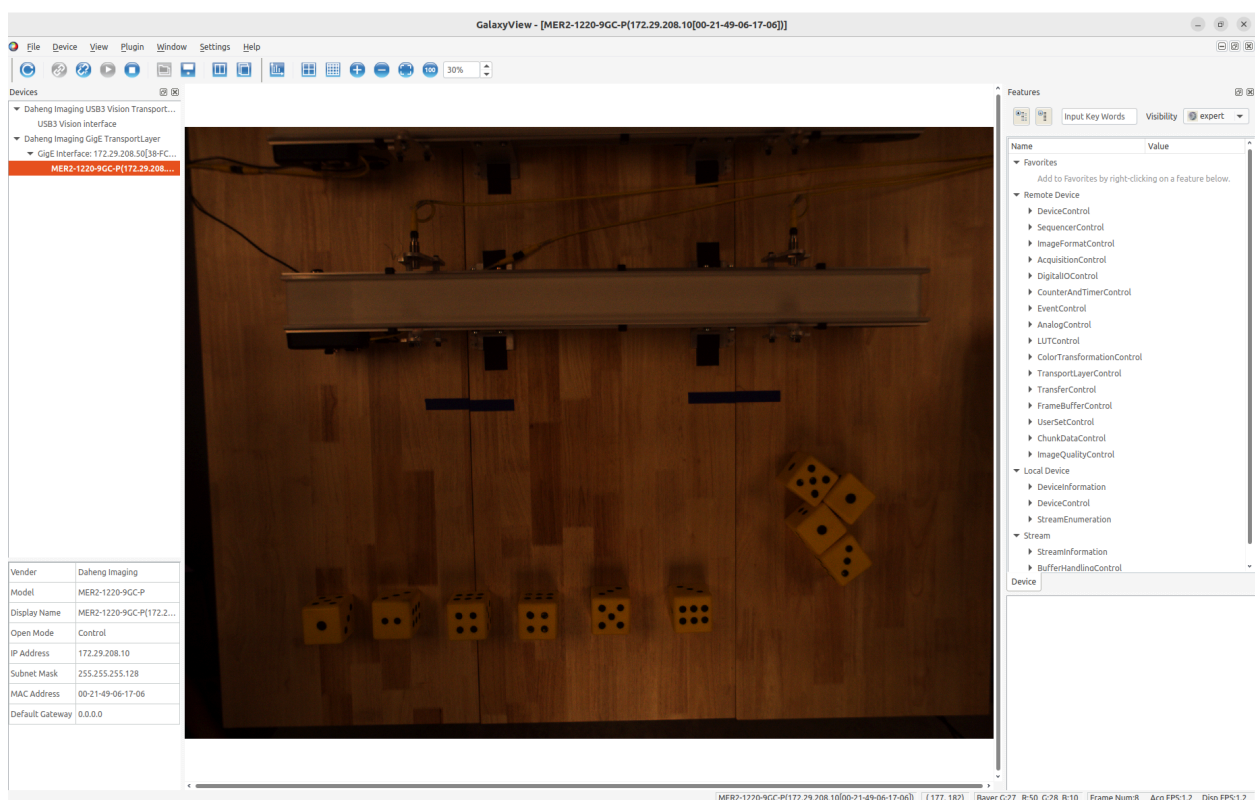
3. Click the blue chain icon to open the device.



4. Press the blue play icon to start image acquisition.



5. The GUI will begin displaying frames roughly every second.



Refer to **image_capture_demo.py** on Canvas to see how to take pictures on the camera using the Galaxy Camera Python module.