# Galaxy Camera Software Installation

Download the following zip files from Canvas:

- Galaxy_Camera_SDK.zip

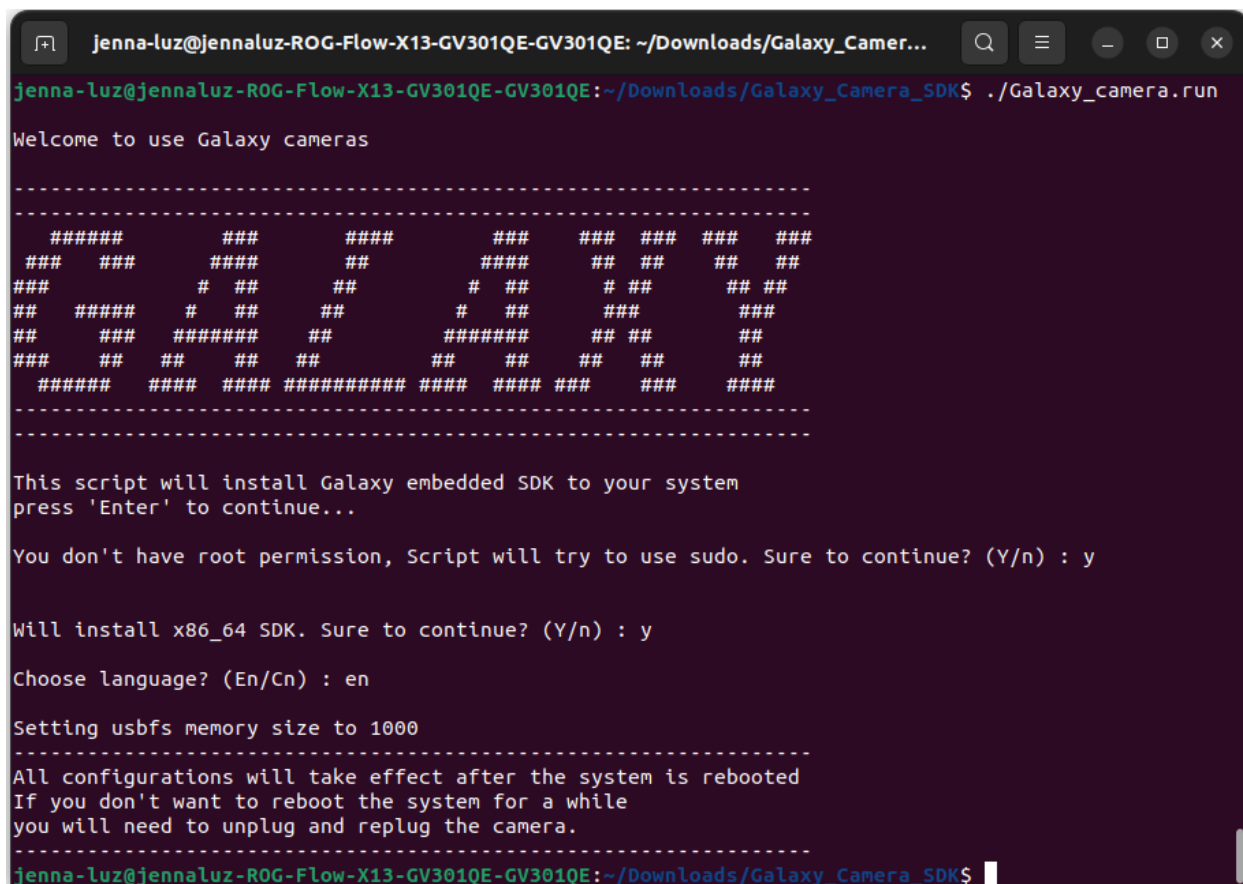- Galaxy_Camera_Python.zip

## 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.

**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.
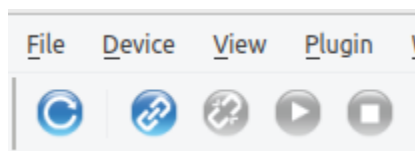
1. Open GalaxyView

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

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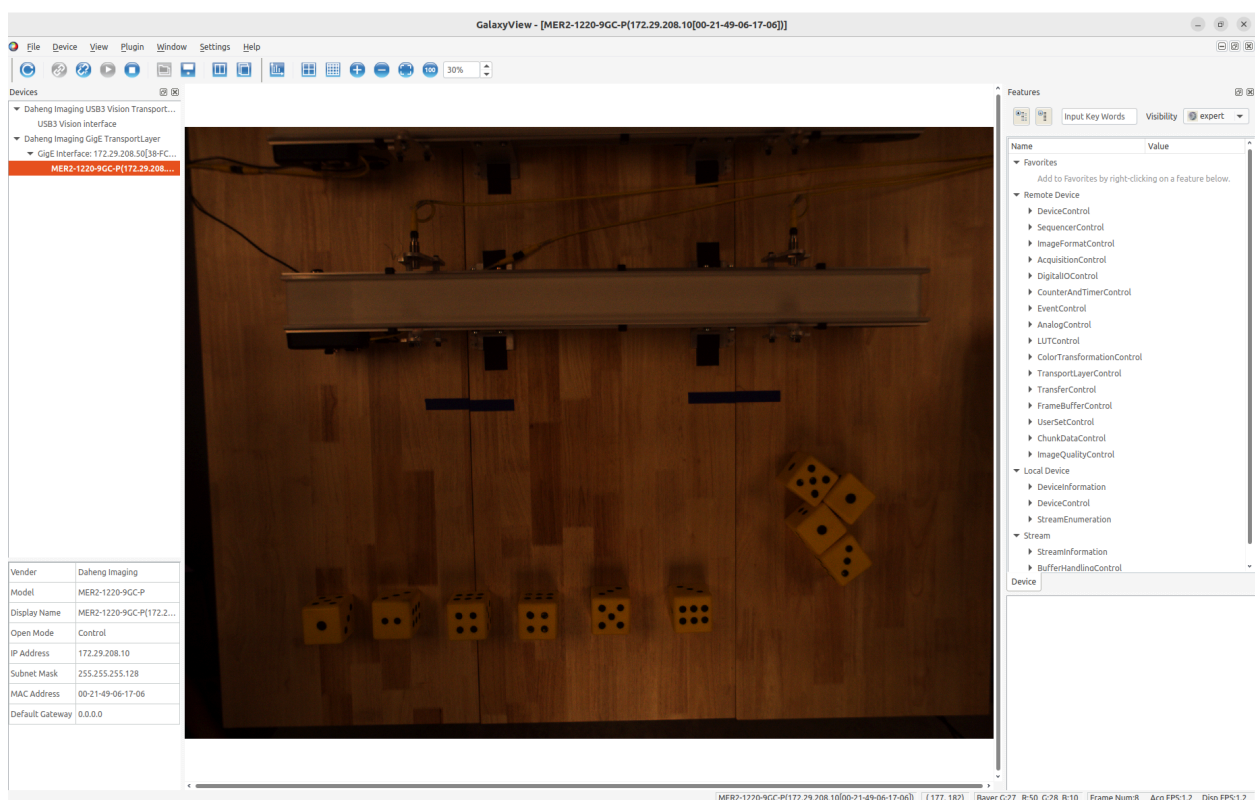


3. Click the blue chain icon to open the device.



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.