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How to use a2A5320 camera and application on AFE-R750 with Jetpack 6.1 v7

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Advantech
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Edge Computing &
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HW connection

- Connect a2A5320 to AFE-R750 via GMSL cable.



Install Camera Driver

- Download Basler camera driver from Basler official website: https://www.baslerweb.com/en/downloads/software/200044559/?query=R750&groupAssets.supportedOs.data=linux
- Put the camera driver to AFE-R750, check AFE-R750 has connected to Internet.
- Extract and and install the camera driver by following steps

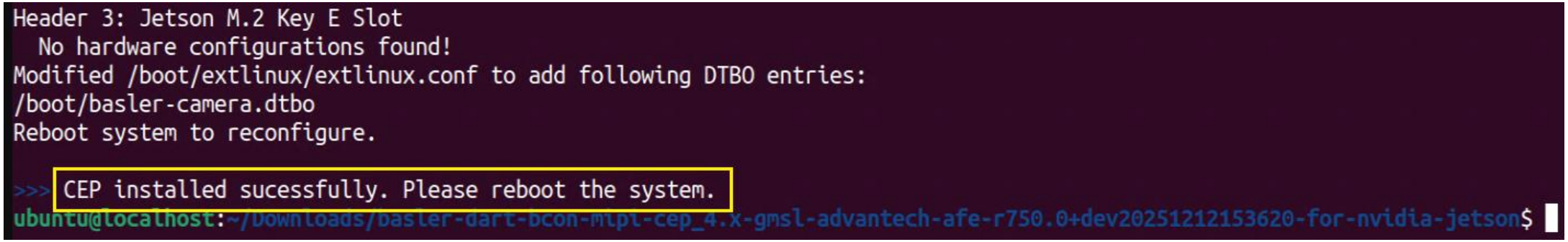
  $ tar zxf basler_cep_advantech_afe_r750_agx_8ch_jp6_5.1.tar.gz

  $ cd basler_cep_advantech_afe_r750_agx_8ch_jp6_5.1

  $ sudo ./setup.sh

Notice: default password is ubuntu

- Finished the camera driver installation, reboot AFE-R750 once is required.



Open the pylonviewer

- Download pylonviewer from Basler official website:
  https://www.baslerweb.com/en/downloads/software/2805797911/?query=pylon&groupAssets.supportedOs.data=linux

- Follow pylonviewer Readme file to install.

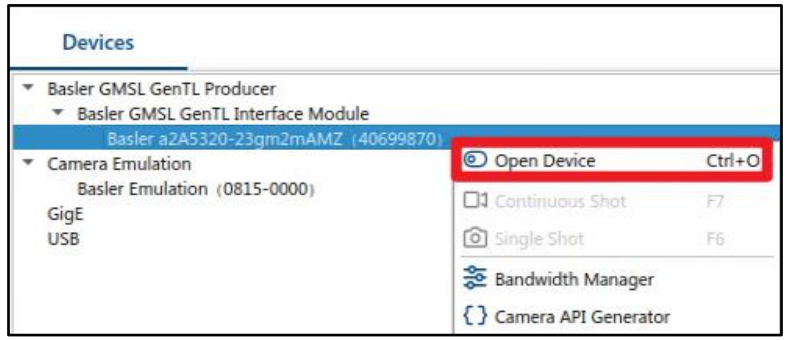
```
$ mkdir ./pylon_setup
$ tar -C ./pylon_setup -xzf ./pylon-*_setup.tar.gz
$ cd ./pylon_setup
$ sudo mkdir /opt/pylon
$ sudo tar -C /opt/pylon -xzf ./pylon-*.tar.gz
$ sudo chmod 755 /opt/pylon
```

- Run pylonviewer.

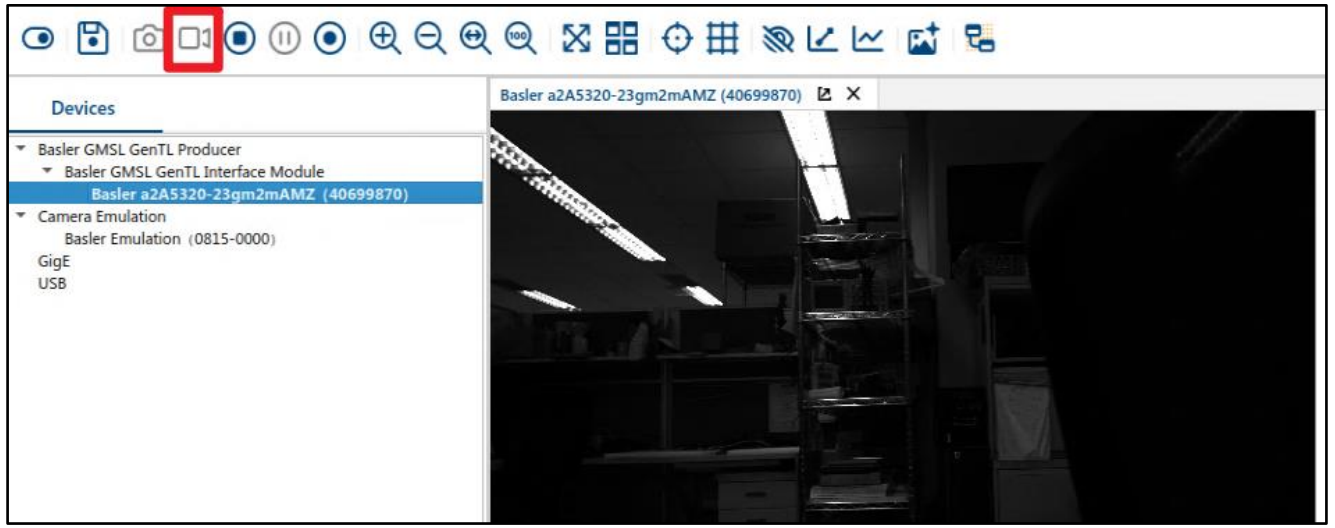
```
$ /opt/pylon/bin/pylonviewer
```

Open the pylonviewer

- Right click the detected camera and select Open Device.



- Click Continuous Shot icon and the video streaming will show at right side.



Contact Window and File Link

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