Release Notes

Bioptic Color Camera SDK for Python (Linux) v1.0.1

June 2020

Contents

Overview

Zebra Camera SDK python for Linux provides an application programming interface for UVC color camera.

Device Compatibility

- MP7000

Version History

Version 1.0.1 – 06/2020

1. Initial release

Pre-requisites

1. libjpeg
2. libusb-1.0.x
3. libuvc-0.0.6
4. For development: c++11 supported g++
5. libopencv 4.1.0 (Opencv version 4.1.0)
6. zebra-camera-sdk.1.0.0-19.deb (Camera SDK for linux)
7. python3.6
8. python-opencv

Components

The components are installed in the following folders:

Component	Description	Path in the Zip package
Python SDK for camera	Python SDK scripts and wrapper library (.so file)	/usr/local/lib/python3.6/dist-packages/zebraCamera
Sample scripts	Sample scripts file to test wrapper library.	/usr/share/zebra-camera/python-sample/sample-scripts
Sample Demo application	Sample Demo application	/usr/share/zebra-camera/python-sample/zebra_sample_app

Installation

1. Install the packages listed in the prerequisites.
2. Install the Camera SDK Debian/RPM/ARM packages. (Debian is for Ubuntu 18.04, 64-bit, and the RPM is for x86 CentOS7, 64-bit. ARM packages are used for Jetson Nano running on Ubuntu 18.04, 64bit.)
3. Run ldconfig

Installation will deploy python SDK script and libraries and the demo application to the following locations:

/

```
├── usr
│   └── local
│       └── lib
│           └── python3.6
│               └── dist-packages
│                   └── zebraCamera
│                       └── zcamBoundBox.py
│                       └── zcamConfig.py
│                       └── zcamDevlistner.py
│                       └── zcamFirmwareListner.py
│                       └── zcamImageListner.py
│                       └── zcamMonochromeListner.py
│                       └── zcamProperties.py
│                       └── zcamtools.py
│                       └── ZebraCamera.py
│                       └── ZebraEvent.py
│                       └── zebraMultiClient.so

├── usr
│   └── share
│       └── zebra-camera
│           └── python-sample
│               └── sample-scripts
│                   └── zcam_boundingbox.py
│                   └── zcam_configtest.py
│                   └── zcam_firmware.py
│                   └── zcam_multi.py
│                   └── zcam_reboot.py
│                   └── zcam_sample.py
│                   └── zcam_usbmanager.py
│                   └── zmonochrome_sample.py

├── usr
```

```
|    └── share
|      └── zebra-camera
|        └── python-sample
|          └── zebra_sample_app
|              └── zcamConfig.json
|              └── ZebraColorCameraInterface.py
|              └── ZebraImageUtil.py
|              └── ZebraStartup.py
```

Using Demo Application

The demo application can be found in the /usr/share/zebra-camera/python-sample/zebra_sample_app/

1. Connect the UVC Camera device (PID VID)
2. Configure "zcamConfig.json" file to configure camera properties and events listener.
3. Launch the "ZebraStartup.py" script with root privileges e.g. "sudo python3 ZebraStartup.py"
4. Sample application supports multiple devices

Known Issues and Limitations

1. When scanning lengthy barcodes, only first 25 characters are provided to the application
2. Parameter validation is not done by SDK during camera configuration
3. Very fast scanning might cause missing decode events from Camera SDK
4. Camera properties get set at the application launch time using zcamConfig.json
5. After calling reboot API, with New camera object not receiving Image events.