



# Release Notes

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*Bioptic Color Camera SDK for Linux v1.0*  
*October 2020*

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## Overview

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

## Device Compatibility

- MP7000



## Version History

### Version 1.0.0-21 – 10/2020

1. Bug fix – firmware update failed in camera after detaching while updating firmware.

### Version 1.0.0-18 – 06/2020

1. Initial release

## Pre-requisites

1. libjpeg
2. libusb-1.0.x
3. libuvc-0.0.6
4. libwxgtk3.0 (To run the wxWidgets demo application)
5. For development: c++11 supported g++
6. libopencv 1.4.0 (Opencv version 1.4.0)

## Components

The components are installed in the following folders:

Component	Description	Path in the Zip package
SDK library	SDK libraries (*.lib) and dependencies	/usr/lib/
API header files	Header files for application developers	/usr/include/
Demo application binaries and source code	Binaries of the Demo application	/usr/share/samples/ZebraCameraDemo

## Installation

1. Install the packages listed in the prerequisites
2. Install the Camera SDK Debian or RPM package. Debian is for Ubuntu 18.04, 64-bit, and the RPM is for x86 CentOS7, 64-bit.
3. Run ldconfig

Installation will deploy libs, include files, configuration files and the demo application to the following locations:



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```
/
├─ etc
│  └─ ld.so.conf.d
│     └─ zebra-camera-sdk.conf
│  └─ systemd
│     └─ system
│        └─ camera-service.service
├─ usr
│  └─ bin
│     └─ camera-service
│  └─ include
│     └─ zebra-camera
│        └─ camera_sdk
│           └─ assets.h
│           └─ camera_enums.h
│           └─ camera_types.h
│           └─ firmware_download_event_args.h
│           └─ zebra_camera.h
│              └─ zebra_camera_manager.h
│          └─ device_manager
│             └─ device_manager.h
│             └─ device_manager_types.h
│          └─ image_converter
│             └─ image_converter.h
│          └─ imaging_library
│             └─ camera_bounding_box_factory.h
│          └─ monochrome_sdk
│             └─ directory_observer.h
│             └─ image_creation_observer.h
│             └─ image_event.h
│             └─ image_event_queue.h
│             └─ image_event_subscriber.h
│             └─ tower_platter_image_event_handler.h
│             └─ utility_functions.h
│          └─ multi_client
```



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- | | | | └─ assets.h
- | | | | └─ camera\_enums.h
- | | | | └─ camera\_types.h
- | | | | └─ device\_manager\_types.h
- | | | | └─ firmware\_download\_event\_args.h
- | | | | └─ zebra\_camera\_client.h
- | | | | └─ zebra\_camera\_manager\_client.h
- | | | | └─ zebra\_camera\_manager\_types.h
- | | └─ lib
- | | | └─ zebra-camera
- | | | | └─ libcamera\_imaging\_lib.so
- | | | | └─ libclient\_message\_handler.so -> libclient\_message\_handler.so.1
- | | | | └─ libclient\_message\_handler.so.1 -> libclient\_message\_handler.so.1.0.0
- | | | | └─ libclient\_message\_handler.so.1.0.0
- | | | | └─ libdevice\_manager.so -> libdevice\_manager.so.1
- | | | | └─ libdevice\_manager.so.1 -> libdevice\_manager.so.1.0.0
- | | | | └─ libdevice\_manager.so.1.0.0
- | | | | └─ libdevmgr\_adapter.so -> libdevmgr\_adapter.so.1
- | | | | └─ libdevmgr\_adapter.so.1 -> libdevmgr\_adapter.so.1.0.1
- | | | | └─ libdevmgr\_adapter.so.1.0.1
- | | | | └─ libimage\_converter.so -> libimage\_converter.so.1
- | | | | └─ libimage\_converter.so.1 -> libimage\_converter.so.1.0.0
- | | | | └─ libimage\_converter.so.1.0.0
- | | | | └─ libmessage\_parser.so -> libmessage\_parser.so.1
- | | | | └─ libmessage\_parser.so.1 -> libmessage\_parser.so.1.0.0
- | | | | └─ libmessage\_parser.so.1.0.0
- | | | | └─ libmonochrome-sdk.so -> libmonochrome-sdk.so.1
- | | | | └─ libmonochrome-sdk.so.1 -> libmonochrome-sdk.so.1.0.0
- | | | | └─ libmonochrome-sdk.so.1.0.0
- | | | | └─ libuvc\_adapter.so -> libuvc\_adapter.so.1
- | | | | └─ libuvc\_adapter.so.1 -> libuvc\_adapter.so.1.0.2
- | | | | └─ libuvc\_adapter.so.1.0.2
- | | | | └─ libzebra\_camera\_client.so -> libzebra\_camera\_client.so.1
- | | | | └─ libzebra\_camera\_client.so.1 -> libzebra\_camera\_client.so.1.0.0
- | | | | └─ libzebra\_camera\_client.so.1.0.0



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```
| | |─ libzebra_camera_manager_client.so -> libzebra_camera_manager_client.so.1
| | |─ libzebra_camera_manager_client.so.1 -> libzebra_camera_manager_client.so.1.0.0
| | |─ libzebra_camera_manager_client.so.1.0.0
| | |─ libzebracam.so -> libzebracam.so.1
| | |─ libzebracam.so.1 -> libzebracam.so.1.0.8
| | └─ libzebracam.so.1.0.8
| └─ share
|   └─ zebra-camera
|     └─ configs
|         └─ log
|             └─ spdlog_configuration.xml
|                 └─ zebra-monochrome-sdk
|                     └─ monochrome-sdk-conf.xml
|                         └─ samples
|                             └─ multi_client_zebra_camera_demo
└─ var
    └─ log
        └─ zebra-camera
```

## Using Demo Application

1. The demo application can be found in the `/usr/share/zebra-camera/samples/multi_client_zebra_camera_demo`
2. Connect the UVC Camera device (PID VID)
3. Launch the “multi\_client\_zebra\_camera\_demo” application with root privileges.
4. Use the controls to change the UVC standard control
5. 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 image events from Camera SDK