

POINT SPREAD

Okulo Firmware Update Tool User's Guide

Release 1.0

Point Spread Technology Co., Ltd.

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INTRODUCTION

Okulo™ P1 series cameras produced by Point Spread use RGB and ToF sensors to capture the RGB and Depth images for 3D applications. And we provide Okulo™ Firmware Update Tool to update the camera's firmware for better image quality and new functionalities. This document will guide you how to update your camera's firmware with Okulo™ Firmware Update Tool.

Okulo™ Firmware Update Tool is a standalone software designed for updating firmware of Okulo cameras. It supports Linux OS only and has been tested under Ubuntu 20.04 and later operating systems.

2.1 Installation

- Choose and download firmware from the [Firmware List](#), e.g., you may choose [Firmware 1.61.0](#)

2.1.1 Linux

- Okulo™ Firmware Update Tool requires Ubuntu 20.04 or later
- Download [Okulo_Firmware_Update_Tool](#) for Linux
- Download [ftd3xx linux driver](#) , install it in a Linux console as below:

```
>>> chmod +x installDriver.sh
>>> sudo ./installDriver.sh 1>/dev/null
```

- To run the tool, you need to add the execution permission for the Okulo™ Firmware Update Tool file in a Linux console as below:

```
>>> chmod +x Okulo_Firmware_Update_Tool
>>> sudo apt install openssl
```

- Then, you can execute it in a Linux console as below:

```
>>> ./Okulo_Firmware_Update_Tool
```

- There will prompt a window as shown in [Fig. 2.1](#).

2.1.2 Windows

- Okulo™ Firmware Update Tool requires Windows 10 or later
- Download [Okulo_Firmware_Update_Tool](#) for Windows
- Download [ftd3xx windows driver](#) , install it by:
 - Extract `FTD3XXDriver_WHQLCertified_v1.3.0.4_Installer.exe.zip` and then execute the program
 - Double click “install.bat”
- Double click “Okulo_Firmware_Update_Tool” to execute
- There will prompt a window as shown in [Fig. 2.1](#).

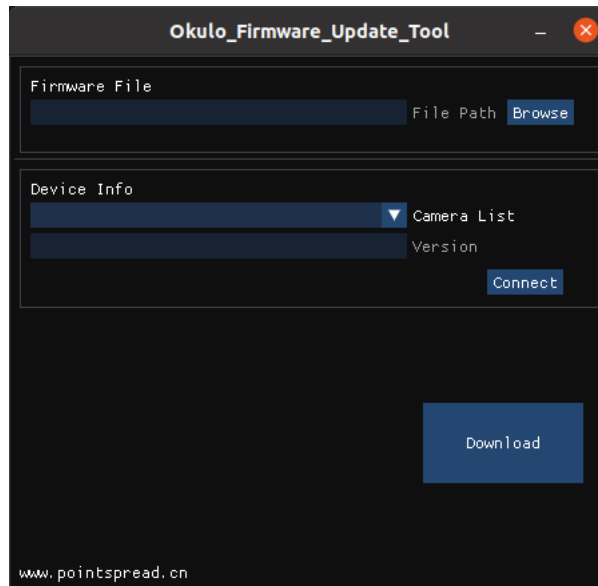


Fig. 2.1: Okulo_Firmware_Update_Tool view

2.2 Operation procedures

1. **Click “Browse” and select the firmware you want to update (.okulo file)**
 - The “File Path” bar will display the selected filename when the firmware is successfully opened, shown in Fig. 2.2 and Fig. 2.3.
2. **Plug in the Okulo camera device and select the device that you want to update its firmware in “Device Info”**
 - The serial number of the inserted device will be added to the “Camera List” dropdown list
 - You can select the serial number of the device that you want to update, as shown in Fig. 2.3.
3. **Click “Connect” to connect the device**
 - The version information of the connected device will be displayed in “Version” bar, as shown in Fig. 2.4.
4. **Click “Download” to start programming firmware to the device**
 - The software will pop up a prompt box during programming, as shown in Fig. 2.5.
 - Please do not attempt to close the software during programming.
5. When the software displays the prompt box of success, pull the device out and re-power it again, then the firmware programming is completed, as shown in Fig. 2.6.

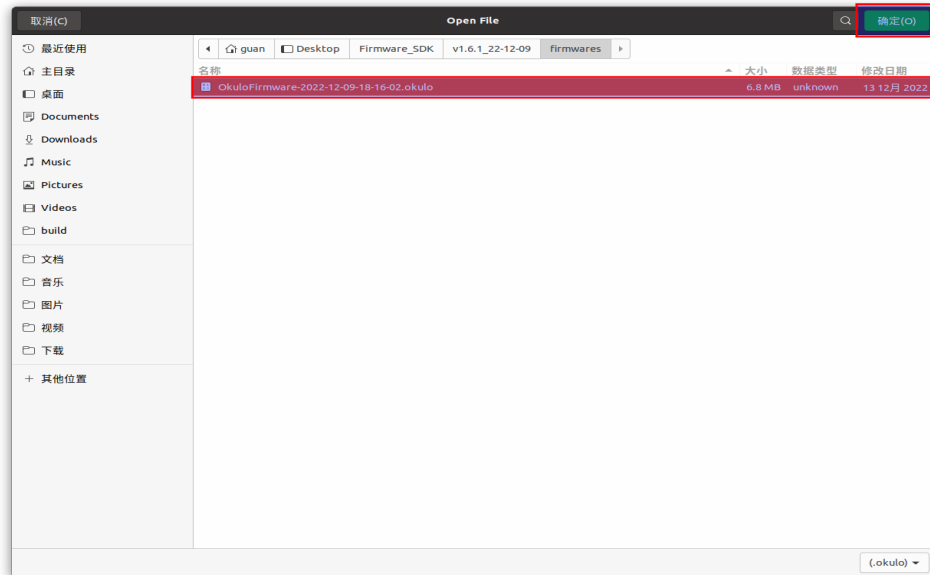


Fig. 2.2: Select .okulo File

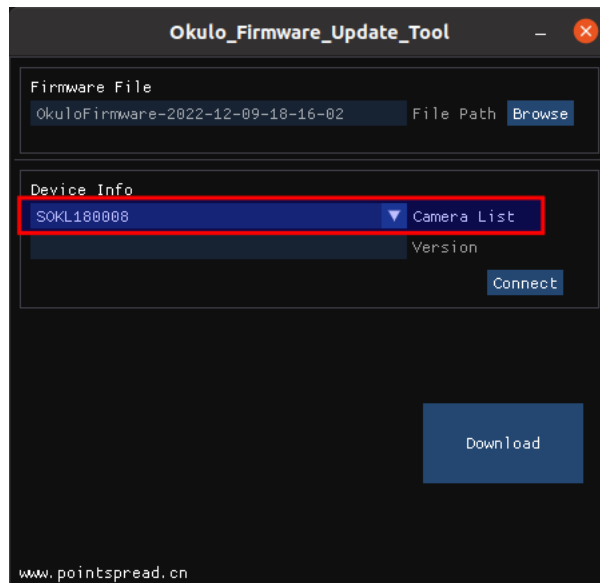


Fig. 2.3: Plug in device

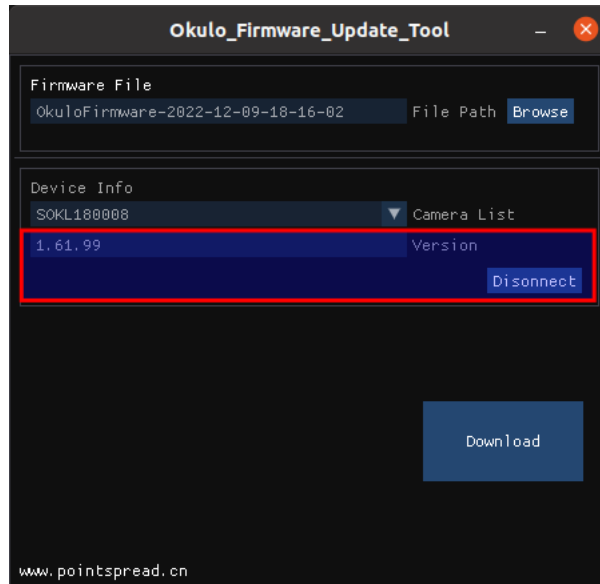


Fig. 2.4: Connect the device

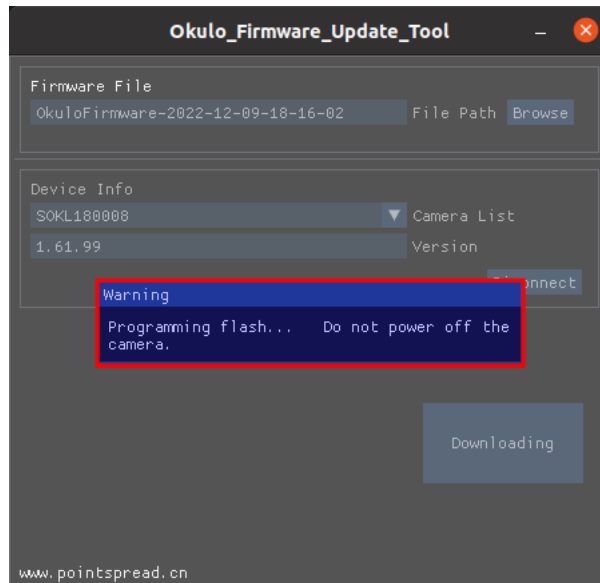


Fig. 2.5: Programming

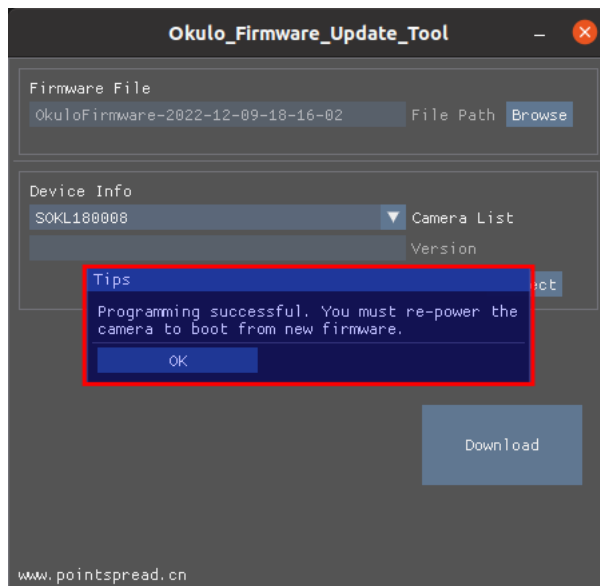


Fig. 2.6: Finish programming

2.3 Attentions

1. Do not close the software after the “Download” has started, and do not operate the device to prevent errors in the update;
2. Please ensure that the software storage path does not have Chinese in its path;
3. Please ensure that the firmware (.okulo file) that needs to be updated does not have Chinese in its path.

ABOUT US

Point Spread Technology Co., Ltd. is committed to revolutionize computational photography, computational optics with its world-leading computational imaging technology. We vow to push forward imaging in the industrial fields including consumer electronics, vehicle-mounted, and more to initiate the automotive optimization era in optics design and the joint-optimization for optics and image signal processing.

Point Spread Technology Co., Ltd. is located in China and have multiple branches in Shenzhen and Nantong. Please feel free to get help by contacting support@pointspread.cn.

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