MultiDepthViewer User Guide

History

Date	Version	Change log
2016.05.30	1.0	Initial version
2016.06.03	1.1	At the first beginning, only one laser is on
2016.10.27	1.2	Port to Linux

OS

Windows 7, 8, 10, Linux (Ubuntu)

Prerequisite

Windows:

- Microsoft Visual Studio 2013

Linux:

- LibUSB 1.0.x

  From: http://sourceforge.net/projects/libusb/files/libusb-1.0/

  Or via apt:

  sudo apt-get install libusb-1.0

- FreeGLUT3

  From: http://freeglut.sourceforge.net/index.php#download

  sudo apt-get install freeglut3-dev

  Restart after installation

Build

Windows:

- Go to Platform\Windows

- Open MultiDepthViewer.sln and build

- Connect sensors

- Run MultiDepthViewer.exe under bin\

Linux:

- Go to Platform/Linux

- make

- Connect sensors

- Run MultiDepthViewer

Note

1. How to change depth resolution:

- From exeutable directory, open OpenNI2\Drivers\Orbbec.ini

- On [Depth] section, change Resolution

Operation Procedures

1. Connect one or more Astra (Astra S) to PC
2. Run MultiDepthViewer
3. Operations

Key	Command	Note
1	Switch laser to sensor 1	The key could be 1, 2, …, depending on how many sensors are connected.
ESC	Quit	

Example

1. Connect 3 sensors
2. Run MultiDepthViewer, you will see console window and depth window

```
C:\Users\zlh\Documents\GitLab\multidepthviewer\MultiDepthViewer\Bi...   –  □  ×

MultiDepthViewer v1.0

Esc - Quit

Devices Count = 3

Press any key between 1 and 3 to switch the laser

Device 1
Uri: \\?\usb#vid_2bc5&pid_0401&mi_00#6&24977bfb&2&0000#{c3b5f022-5a42-1980-1909-
ea72095601b1}
SN: 15101310130

Device 2
Uri: \\?\usb#vid_2bc5&pid_0401&mi_00#6&37512ca0&0&0000#{c3b5f022-5a42-1980-1909-
ea72095601b1}
SN: 15120110162

Device 3
Uri: \\?\usb#vid_2bc5&pid_0401&mi_00#6&11ddcb56&0&0000#{c3b5f022-5a42-1980-1909-
ea72095601b1}
SN: 15101310102
```
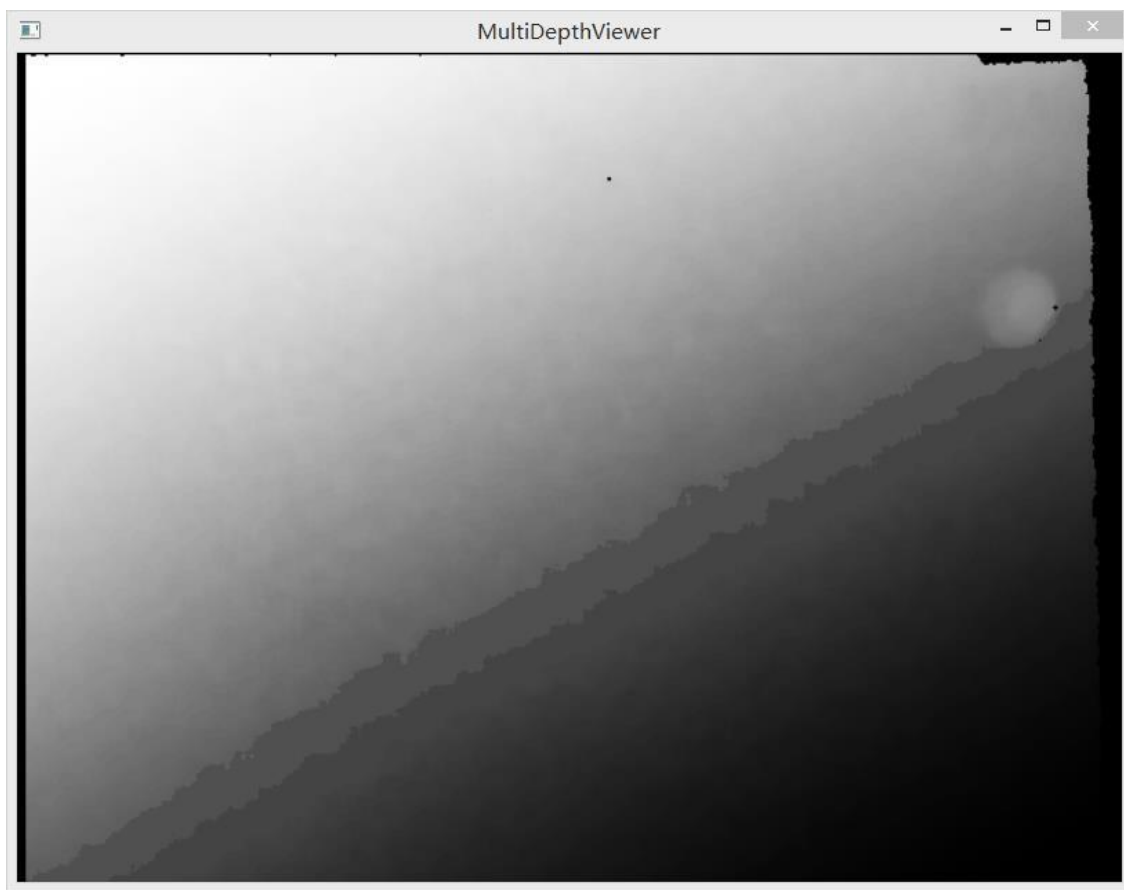

MultiDepthViewer

3. At the first beginning, all sensors will start to stream the depth, and only one laser is on.
4. Then press 1, 2 or 3 to switch laser (NOTE: all depth streams are alive, only laser is turned on/off)