How to Install Indi Server on Raspberry PI (Jessie and Ubuntu)

This guide will show you how I was able to successfully install the latest version of Indi Server and the required dependencies, libgphoto2 and gphoto2, to use a Canon 80D. The 80D is recently supported in libgphoto2 version 2.5.12; while there is v2.5.13 it doesn't seem to work with the 80D. The reason I had to go this route and not use the packages was because the Indi Server packages load an older version of libgphoto2, which is not compatible with the Canon 80D.

Many thanks to scribblemaniac on Github for help his help with this!!!

Raspberry Pi running Jessie - Installing Indi Server, libgphoto2, gphoto2:

#Install Gphoto2 and Libgphoto2 using this script, but need to modify a variable to contain 2.5.12 instead of the listed 2.5.13. (https://github.com/gonzalo/gphoto2-updater).

```
$ wget https://raw.githubusercontent.com/gonzalo/gphoto2-updater/master/gphoto2-updater.sh && chmod +x gphoto2-updater.sh
```

#Open the script and find 2.5.13. Replace with 2.5.12. Use a text editor and not an Office application. Line to modify is: latest_stable_libgphoto_version=2_5_12
#Run the script

```
$ sudo ./gphoto2-updateer.sh
```

#Install dependencies

```
$ sudo apt-get install libnova-dev libcfitsio-dev libusb-1.0-0-dev zlib1g-dev libgsl-dev build-essential cmake git libjpeg-dev libcurl4-gnutls-dev libraw-dev
```

Install libindi

```
$ git clone https://github.com/indilib/indi.git
$ cd indi
$ mkdir -p build/libindi
$ cd build/libindi
$ cmake -DCMAKE_INSTALL_PREFIX=/usr -DCMAKE_BUILD_TYPE=Debug ../../libindi
$ make
$ sudo make install
```

Install indi gphoto driver

```
$ cd ../
$ mkdir indi-gphoto
$ cd indi-gphoto
$ cmake -DCMAKE_INSTALL_PREFIX=/usr -DCMAKE_BUILD_TYPE=Release ../../3rdparty/indi-gphoto
$ make
$ sudo make install
```

Raspberry Pi running Ubuntu - Installing Indi Server, libgphoto2, gphoto2, and Kstars:

#Install Gphoto2 and Libgphoto2 using this script, but need to modify a variable to contain 2.5.12 instead of the listed 2.5.13

```
$ wget https://raw.githubusercontent.com/gonzalo/gphoto2-updater/master/gphoto2-updater.sh && chmod +x gphoto2-updater.sh
```

#Open the script and find 2.5.13. Replace with 2.5.12. Use a text editor and not an Office application.

#Run the script

```
$ sudo ./gphoto2-updateer.sh
```

#Install dependencies

```
$ sudo apt-get install libnova-dev libcfitsio-dev libusb-1.0-0-dev zlib1g-dev libgsl-dev build-essential cmake git libjpeg-dev libcurl4-gnutls-dev libraw-dev
```

Install libindi

```
$ git clone https://github.com/indilib/indi.git
$ cd indi
$ mkdir -p build/libindi
$ cd build/libindi
$ cmake -DCMAKE_INSTALL_PREFIX=/usr -DCMAKE_BUILD_TYPE=Debug ../../libindi
$ make
$ sudo make install
```

Install indi gphoto driver

```
$ cd ../
$ mkdir indi-gphoto
$ cd indi-gphoto
$ cmake -DCMAKE_INSTALL_PREFIX=/usr -DCMAKE_BUILD_TYPE=Release ../../3rdparty/indi-gphoto
$ make
$ sudo make install
```

#Install Kstars.

```
$ sudo apt-add-repository ppa:mutlaqja/ppa
$ sudo apt-get update
$ sudo apt-get install indi-full kstars-bleeding
```