

# Ubuntu下安装pyorbbecsdk

## 1.github下载pyorbbecsdk包

地址:[GitHub - orbbec/pyorbbecsdk: OrbbecSDK python binding](https://github.com/orbbec/pyorbbecsdk)

clone到本地 `git clone https://github.com/orbbec/pyorbbecsdk.git`

## 2.创建虚拟环境

```
conda create -n IM pyhton=3.8
```

```
conda activate IM
```

## 3.配置解释器

在clone的文件夹根目录下找到 `CMakeLists.txt` 文件, 打开找到 `find_package(Python3 REQUIRED COMPONENTS Interpreter Development)` 这一行,在前面填两行

```
1 set(Python3_ROOT_DIR "/home/anaconda3/envs/py3.6.8") # Replace with your
  Python3 path(我是在/home/ubuntu/dev/anaconda3/envs/IM/bin/python3)
2
3 set(pybind11_DIR "${Python3_ROOT_DIR}/lib/python3.6/site-
  packages/pybind11/share/cmake/pybind11") # Replace with your Pybind11 path(我
  我是在/home/ubuntu/dev/anaconda3/envs/IM/lib/python3.8/site-
  packages/pybind11/share/cmake/pybind11)
```

## 4.cmake配置

进入刚刚clone的pyorbbecsdk文件夹 `cd pyorbbecsdk`

安装依赖包 `pip install -r requirements.txt`

然后依次执行

```
1 mkdir build
2 cd build
3 cmake -Dpybind11_DIR=`pybind11-config --cmakedir` ..
4 make -j4
5 make install
```

## 5.把cmake生成的python包复制到虚拟环境中

在刚刚生成的build文件夹下找到 `pyorbbecsdk.cpython-39-x86_64-linux-gnu.so` 文件把它复制到 `/home/ubuntu/dev/anaconda3/envs/IM/lib/python3.8/site-packages` 下

## 6.验证是否导入

激活虚拟环境 `conda activate IM`

```
python -c "import pyorbbecsdk; print(dir(pyorbbecsdk))"
```

如果出现一大片:

```
1 | ['__doc__', '__file__', '__loader__', '__name__', '__package__', '__spec__',  
    'Pipeline', 'Context', ...]
```

证明导入成功

## 7.安装驱动

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最后再按 <https://orbbec.github.io/orbbecSDK/> 上的安装一下驱动