

1、相机驱动下载

```
git clone --recursive https://github.com/TheImagingSource/tiscamera.git
```

2、驱动编译运行依赖需要安装

```
# Build dependencies
```

```
sudo apt-get install git g++ cmake pkg-config libudev-dev libudev1 libtinynxml-dev libgstreamer1.0-dev libgstreamer-plugins-base1.0-dev libglib2.0-dev libgirepository1.0-dev libusb-1.0-0-dev libzip-dev uvcdynctrl python-setuptools libxml2-dev libpcap-dev libaudit-dev libnotify-dev autoconf intltool gtk-doc-tools python3-setuptools
```

```
# Runtime dependencies
```

```
sudo apt-get install gstreamer1.0-tools gstreamer1.0-x gstreamer1.0-plugins-base gstreamer1.0-plugins-good gstreamer1.0-plugins-bad gstreamer1.0-plugins-ugly libxml2 libpcap0.8 libaudit1 libnotify4 python3-pyqt5 python3-gi
```

3、驱动编译

```
git clone --recursive https://github.com/TheImagingSource/tiscamera.git
```

```
cd tiscamera
```

```
mkdir build
```

```
cd build
```

```
cmake -DBUILD_ARAVIS=OFF -DBUILD_GST_1_0=ON -DBUILD_TOOLS=ON -DBUILD_V4L2=ON -DCMAKE_INSTALL_PREFIX=/usr ..
```

```
make
```

```
sudo make install
```

4、相机启动

1) 源码中提供 ROS 启动程序：tis_rosstarter

```
/home/ac/tiscamera/examples/ROS/tis_rosstarter
```

2) tis_rosstarter 中可以修改相机参数，29814246 是相机序列号，在相机机身上可以看到

```
# Open the camera. Parameters are serial number, width, height, frame rate, color and liveview.
```

```
cam = tiscamera.Camera("29814246", 1440, 1080, 30, True, False)
```

3) 启动前需要安装

```
sudo apt-get install ros-kinetic-gscam
```

```
sudo apt-get install libgstreamer-plugins-base0.10-dev
```

4) 在启动./tis_rosstarter 时，遇到问题 201

```
https://github.com/TheImagingSource/tiscamera/issues/201
```

解决方法：

```
sudo apt-get install gstreamer0.10-plugins-good v4l-utils
```

5) 先启动 ros，正常启动时，如下信息代表其他成功，反复启动后如果失败，尝试 kill tis_rosstarter 残留进程

```
ac@ac-wbz:~$ roscore
```

```
ac@ac-wbz:~/tiscamera/examples/ROS$ ./tis_rosstarter
```

```
[ INFO] [1536150993.206007518]: Time offset: 1536109083.240
```

```
[ INFO] [1536150993.376890031]: Publishing stream...
```

```
[ INFO] [1536150993.377034373]: Started stream.
```

6) topic 查询

```
ac@ac-wbz:~$ rostopic list
```

```
/camera/camera_info
```

```
/camera/image_raw
```