

gstreamer

debug

```
mkdir ./tmp
export GST_DEBUG_DUMP_DOT_DIR=./tmp/

# ... run pipeline

cd tmp
dot -Tpng x.xx.xx.xxxxxxxxx-gst-launch.F00.dot > graph.png
```

show usb camera

```
v4l2-ctl --list-devices

v4l2-ctl --list-formats-ext -d /dev/video2
[ ] ✓ [ ] 10055 [ ] 14:40:36
ioctl: VIDIOC_ENUM_FMT
  Type: Video Capture

  [0]: 'GRBG' (8-bit Bayer GRGR/BGBG)
    Size: Discrete 1280x960
      Interval: Discrete 0.044s (22.500 fps)
    Size: Discrete 1280x720
      Interval: Discrete 0.033s (30.000 fps)
    Size: Discrete 640x480
      Interval: Discrete 0.013s (80.000 fps)
    Size: Discrete 320x240
      Interval: Discrete 0.006s (160.000 fps)

gst-launch-1.0 v4l2src device=/dev/video0 ! xvimagesink
```

rtsp client

```
gst-launch-1.0 \
  rtspsrc location=rtsp://foscaml@192.168.2.14:554/videoMain !
  rtpH264depay \
  ! h264parse ! avdec_h264 \
  ! videoconvert ! xvimagesink
```

hardware decode

```
F=videos/traffico01-1152x720-1610kb.mkv
gst-launch-1.0 filesrc location=$F ! matroskademux ! queue ! h264parse !
omxh264dec ! autovideoconvert ! xvimagesink
```

hardware encode

```
... ! videoconvert ! omxh264enc ! matroskamux ! filesink location=test.mkv
```

ocam camera

```
ffplay -f video4linux2 -s 640x480 -i /dev/video0
```

```
Stream #0:0: Video: rawvideo ([186]GR[8] / 0x85247BA), bayer_grbg8, 640x480, 245760 kb/s, 100 fps, 100 tbr, 1000k tbn, 1000k tbc
```

TODO no

```
gst-launch-1.0 v4l2src ! 'video/x-bayer,width=1280,height=720,framerate=30/1,format=grbg' ! queue ! fakesink
```

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