

# Boot

- Remove J2 jumper - disable EMMC boot
- Scan for IP on local network
- Connect monitor and keyboard, finish setup
- Expand system

## Prepare camera

- Setup single camera mode

```
sudo wget https://datasheets.raspberrypi.org/cmio/dt-blob-cam1.bin -O /boot/dt-blob.bin
sudo reboot
```

- Check if camera is detected after reboot

```
vcgencmd get_camera
```

## Recipe #1 - show video in console as ASCII text

```
raspivid -t 0 -o - | gst-launch-1.0 fdsrc ! h264parse ! rtph264pay config-interval=1 pt=96 !
decodebin ! videoconvert ! aasink
```

## Recipe #2 - stream video over network

- Start streaming on Raspberry Pi

```
raspivid -o - -t 9999999 | cvlc -vvv stream:///dev/stdin --sout '#rtsp{sdp=rtsp://:8554/}'
:demux=h264
```

- Start client on Windows computer (change Raspberry Pi IP address to match your setup)

```
set PATH=C:\gstreamer\1.0_1.18.3\bin\; C:\gstreamer\1.0_1.18.3\lib\gstreamer-
1.0\; C:\gstreamer\1.0_1.18.4\libexec\gstreamer-1.0\
gst-launch-1.0 rtspsrc location=rtsp://192.168.0.86:8554/ latency=10 ! decodebin !
timeoverlay ! videoscale ! videoscale ! video/x-raw,width=1280,height=720 ! autovideosink
```

## Demo video with 40x motorized zoom lens

For more details check [blog post](#)

# Raspberry Pi Camera HQ 40x zoom lens



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