OCTO PRINTER IMAGE DOWN LOAD

https://octoprint.org/download/

OCTO PRINTER IMAGE to SD MEMORY WRITE

https://www.raspberrypi.org/forums/viewtopic.php?t=131489

https://www.raspberrypi.org/forums/viewtopic.php?p=890408#p890408

RASPBERRY PI FIRMWARE UPDATE

```
sudo rpi-update
```

RASPBERRY PI UPDATE

```
sudo apt-get update
```

```
sudo apt-get upgrade
```

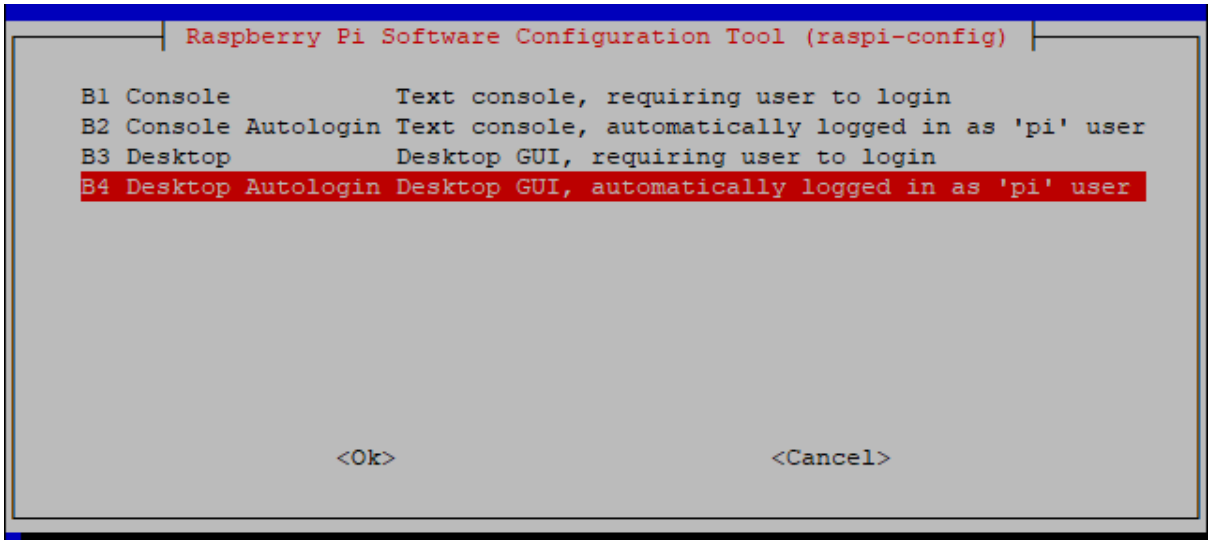
RASPBERRY PI XWINDOWS INSTALL

```
sudo apt-get install --no-install-recommends xserver-xorg
sudo apt-get install --no-install-recommends xinit
sudo apt-get install raspberrypi-ui-mods
```

xwindos auto login & Pi camera setting

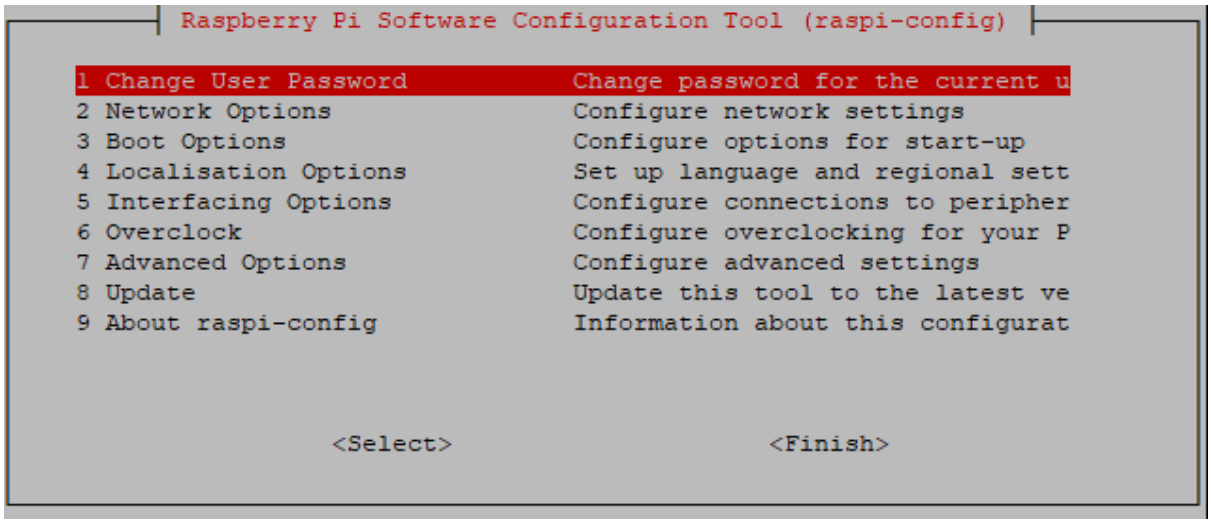
```
sudo raspi-config
```

3.Boot-option -> B1 Desktop /CLI -> B4 Desktop Autologin

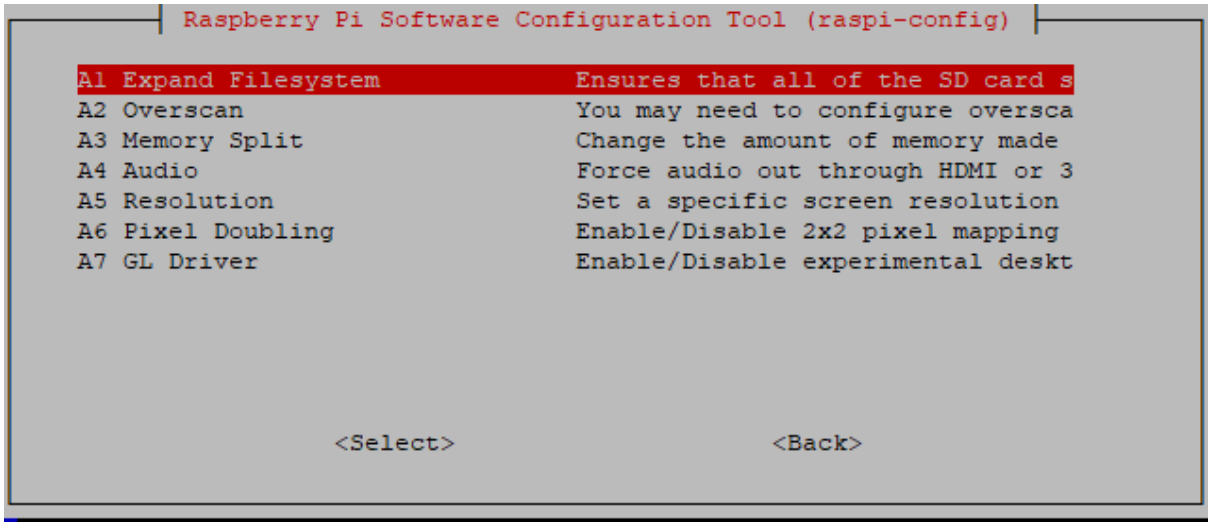


Pi CAMERA SETUP (Raspberry pi camera 사용시)

5. Interfacing Optin -> Pi Camera -> Yes



7.Advanced Options -> A1 Expand Filesystem



TFT DRIVER INSTALL

https://www.waveshare.com/wiki/3.5inch_RPi_LCD_(A)#Method_1._Driver_installation

wget https://www.waveshare.com/w/upload/1/1e/LCD-show-180817.tar.gz

```
pi@octo_x5s:~ $ wget https://www.waveshare.com/w/upload/1/1e/LCD-show-180817.tar.gz
```

DRIVER extractor

```
tar xvf LCD-show-180817.tar.gz
```

```
cd LCD-show/
```

```
chmod 777 LCD35-show
```

```
./LCD35-show
```

SPI-LCD & TOUCH DRIVER INSTALL

https://www.raspberrypi.org/forums/viewtopic.php?t=175616

```
sudo apt-get install xinput-calibrator
```

CHROMIUM INSTALL

```
sudo apt-get install unclutter
sudo apt-get install xdotool
```

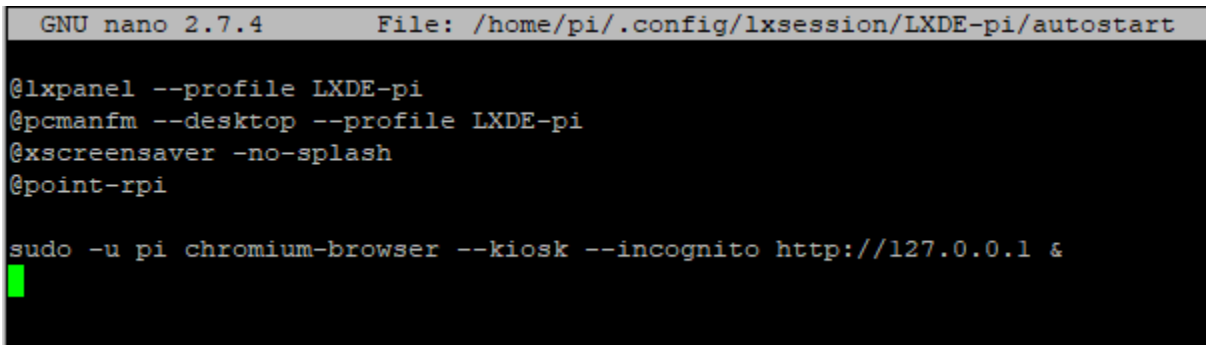
```
https://raspberrypi.stackexchange.com/questions/374/how-do-i-install-google-chrome

sudo apt-get install chromium-browser
```

CHROMIUM AUTO START SETTING

https://www.raspberrypi.org/forums/viewtopic.php?t=163316

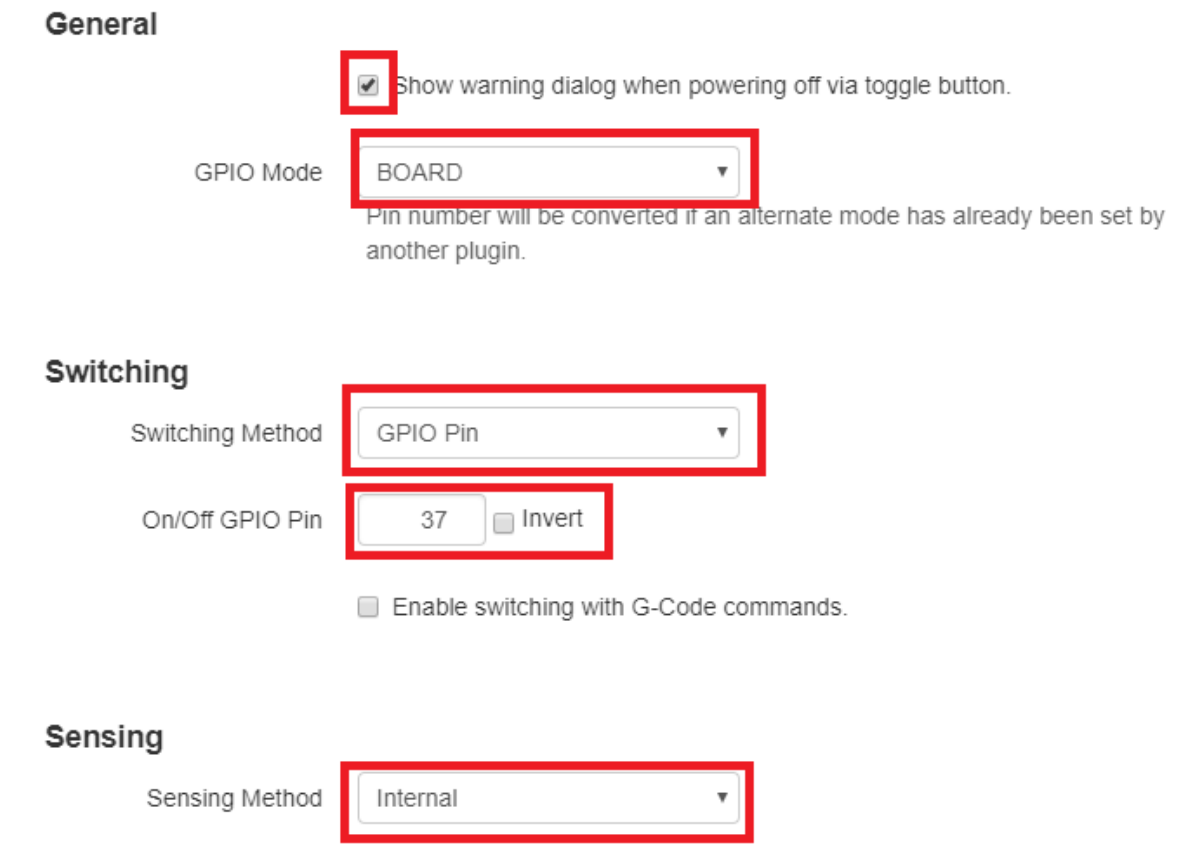
```
sudo nano ~/.config/lxsession/LXDE-pi/autostart
```

```
sudo -u pi chromium-browser --kiosk --incognito http://127.0.0.1 &
```

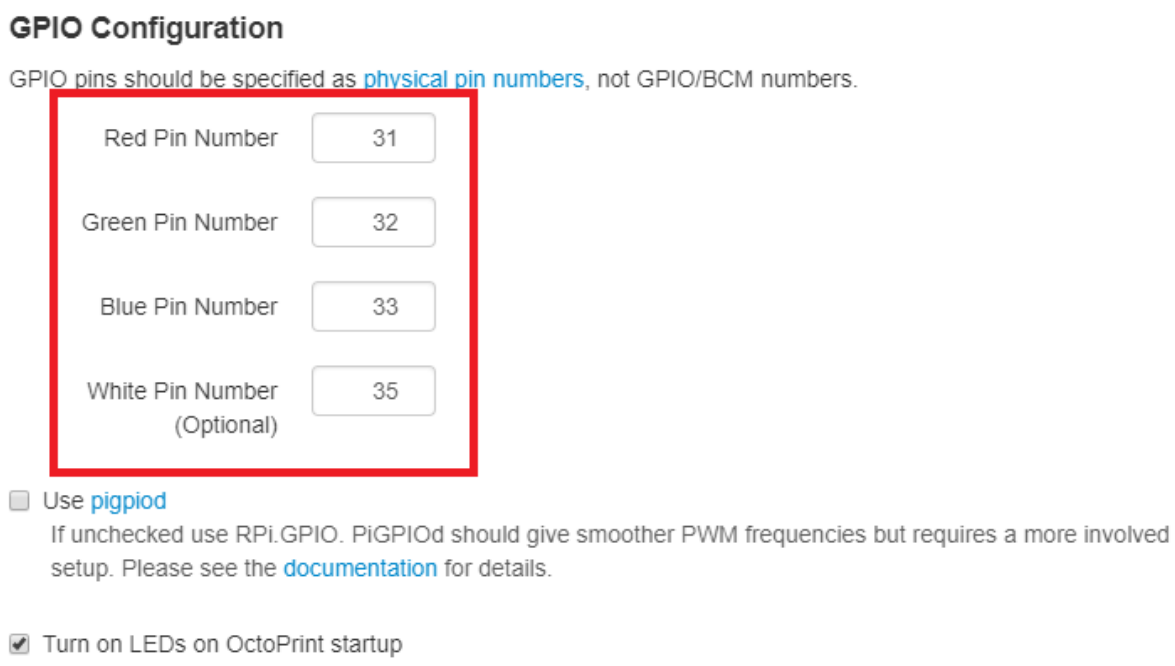



```
sudo reboot
```

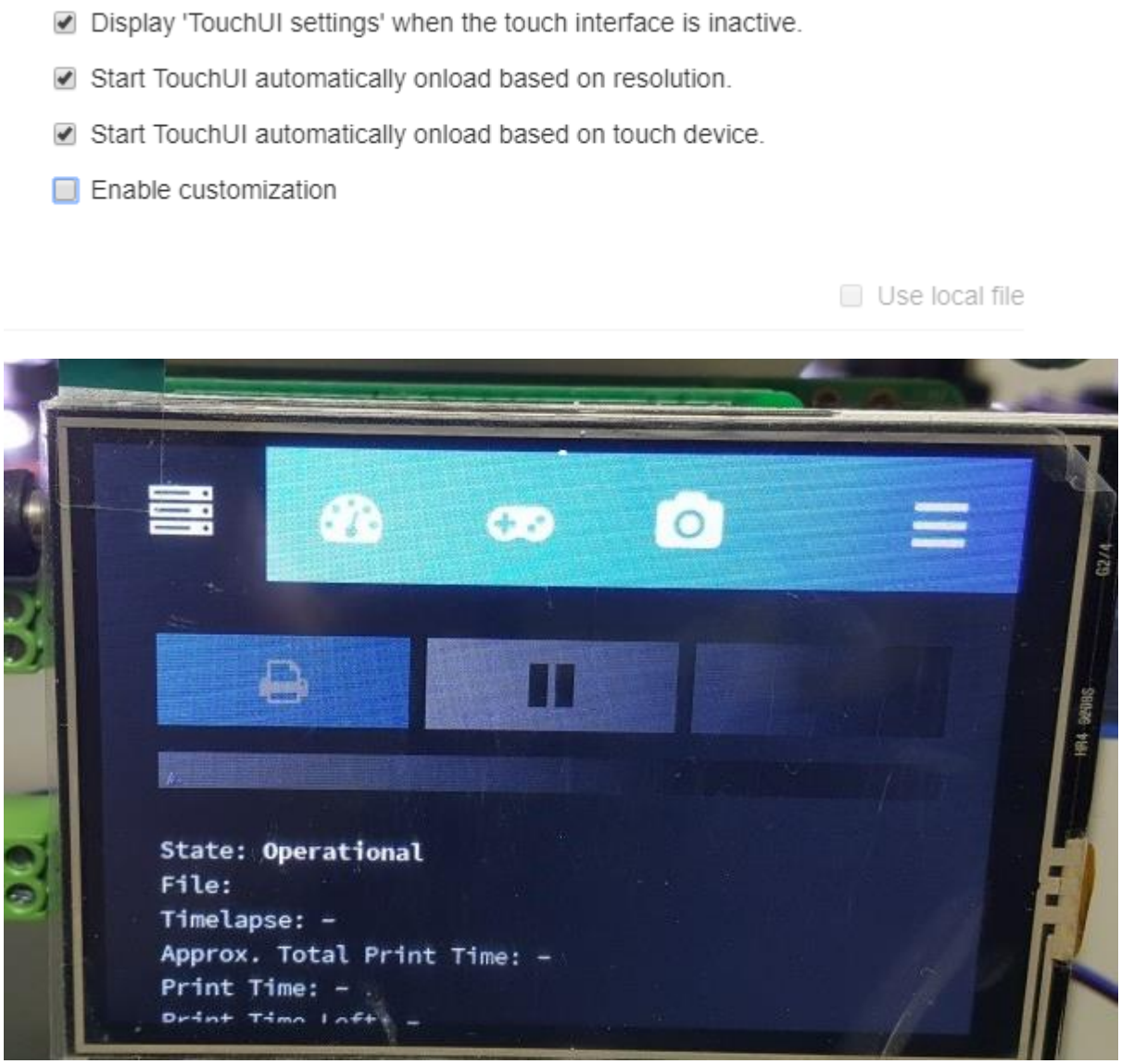
PSU Control Plug In Setup



LED Strip Control Plug in Setup



TouchUI Plug in Setup



USB CAM Install(Option)

https://github.com/jacksonliam/mjpg-streamer/

sudo apt-get install subversion libjpeg8-dev libav-tools libv4l-dev cmake

git clone https://github.com/jacksonliam/mjpg-streamer.git

cd mjpg-streamer/mjpg-streamer-experimental

export LD_LIBRARY_PATH=.

sudo make

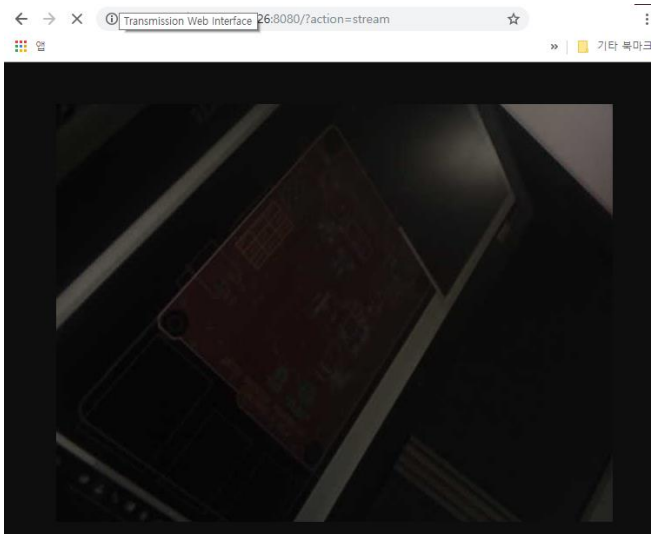
Connecting camera repeat command.

ls /dev/video* (If you see the / dev / video0, then everything should be fine, go ahead)

ttps://github.com/foosel/OctoPrint/wiki/MJPG-Streamer-configuration

sudo ./mjpg_streamer –i "./input_uvc.so –f 2 -y" -o "./output_http.so"

check at http://<your Raspberry pi's IP>:8080/?action=stream



sudo usermod -a -G video pi

(to allow user access to a device video, it is necessary to add it to the appropriate group)

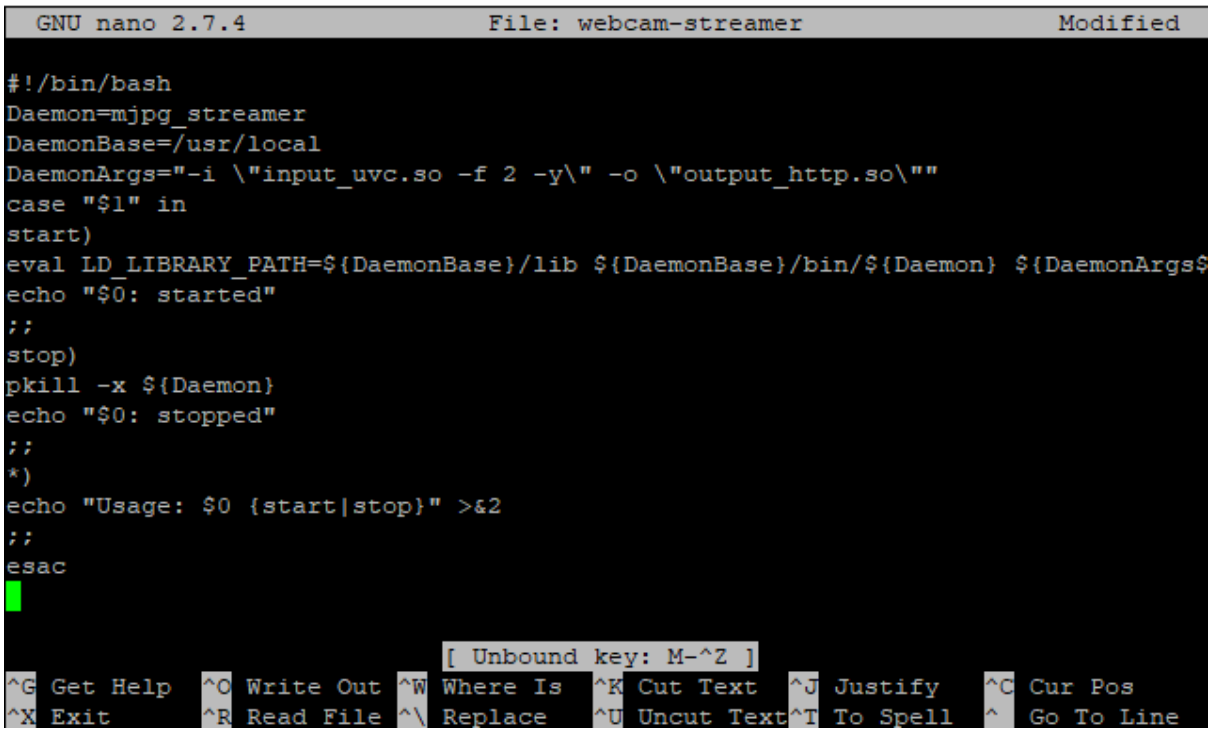
sudo make install

cd ~

sudo nano webcam-streamer

#!/bin/bash

```
Daemon=mjpg_streamer

DaemonBase=/usr/local

DaemonArgs="-i ₩"input_uvc.so –f 2 -y₩" -o ₩"output_http.so₩""

case "$1" in

start)

eval LD_LIBRARY_PATH=${DaemonBase}/lib ${DaemonBase}/bin/${Daemon} ${DaemonArgs} >/dev/null 2>&1 &

echo "$0: started"

;;

stop)

pkill -x ${Daemon}

echo "$0: stopped"

;;

*)

echo "Usage: $0 {start|stop}" >&2

;;

Esac
```



sudo chmod +x webcam-streamer

sudo mv webcam-streamer /usr/local/bin/

sudo nano ~/.octoprint/config.yaml

system:

  actions:

  - action: streamon

    command: sudo /usr/local/bin/webcam-streamer start

    confirm: false

    name: Start video stream

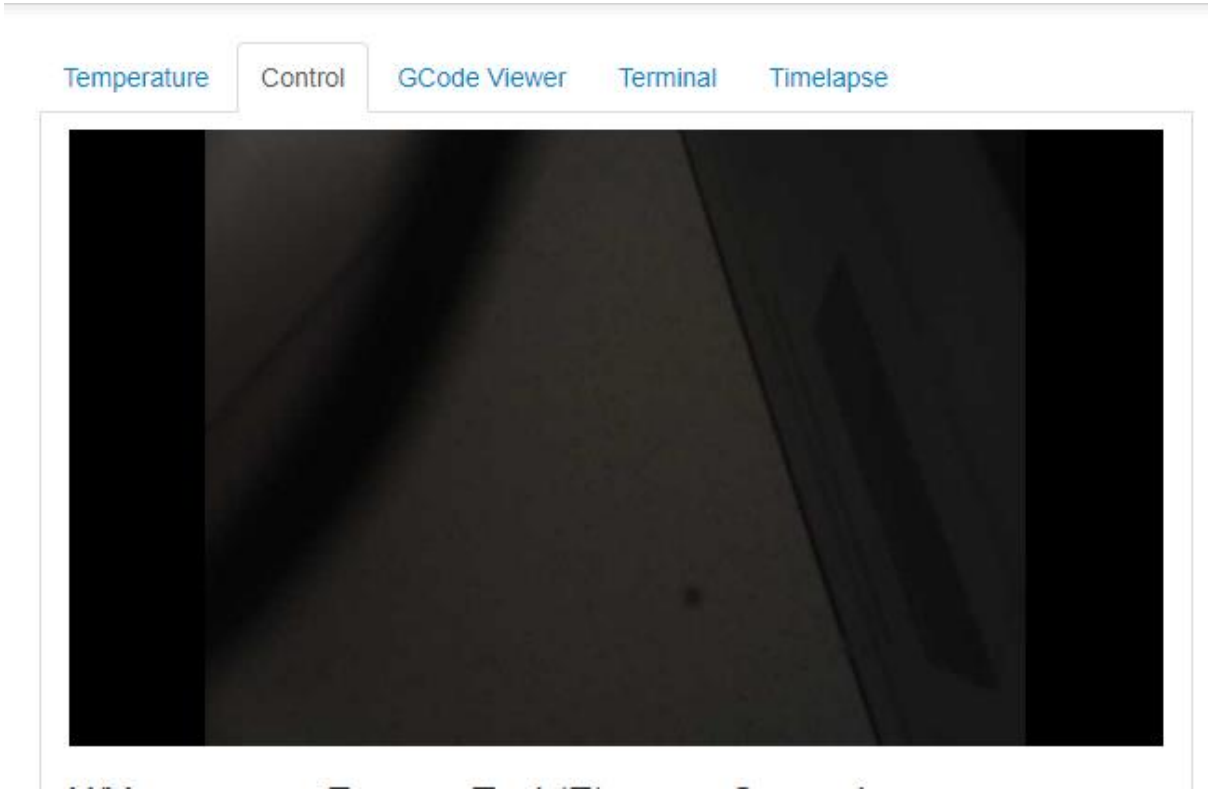
  - action: streamoff

    command: sudo /usr/local/bin/webcam-streamer stop

    confirm: false

name: Stop video stream

```
 GNU nano 2.7.4        File: /home/pi/.octoprint/config.yaml        Modified

 ffmpeg: /usr/bin/avconv
 snapshot: http://127.0.0.1:8080/?action=snapshot
 stream: /webcam/?action=stream

system:
 actions:
 - action: streamon
   command: sudo /usr/local/bin/webcam-streamer start
   confirm: false
   name: Start video stream
 - action: streamoff
   command: sudo /usr/local/bin/webcam-streamer stop
   confirm: false
   name: Stop video stream


                        [ Unbound key: M-^Z ]
^G Get Help  ^O Write Out ^W Where Is  ^K Cut Text  ^J Justify   ^C Cur Pos
^X Exit      ^R Read File ^\ Replace   ^U Uncut Text^T To Spell  ^_ Go To Line
```



Auto start cam

sudo nano /etc/rc.local

usr/local/bin/webcam-streamer start

(Just make sure to put it above the line that reads exit 0).