**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

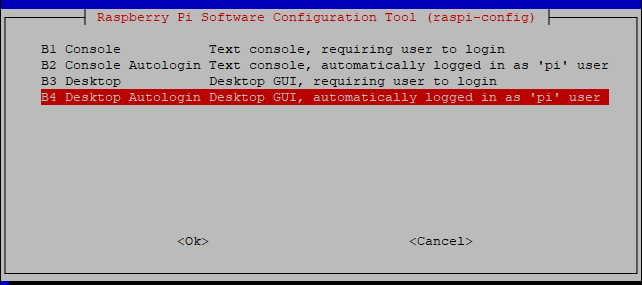
sudo apt-get install --no-install-recommends xinit

sudo apt-get install raspberrypi-ui-mods

**xwindos auto login & Pi camera setting**

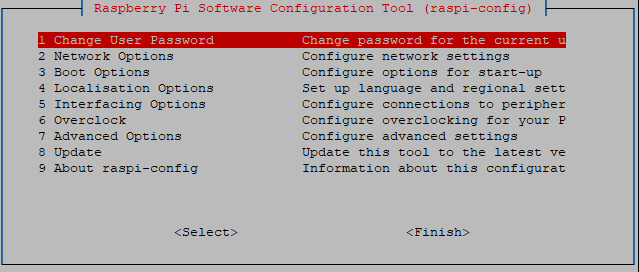
sudo raspi-config

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

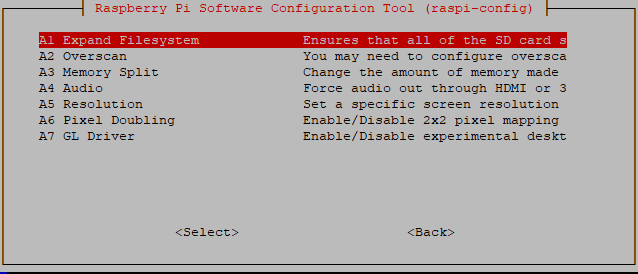


Pi CAMERA SETUP (Raspberry pi camera 사용시)

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**



**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>

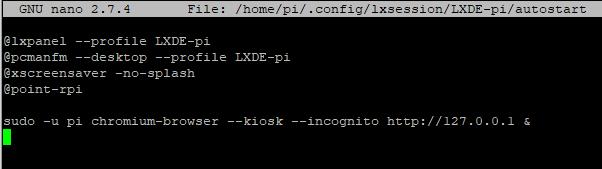
sudo apt-get install chromium-browser

**CHROMIUM AUTO START SETTING**

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

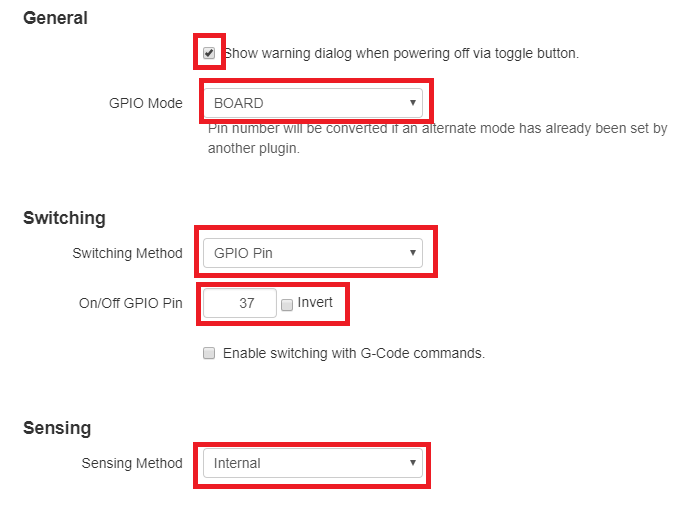
sudo nano ~/.config/lxsession/LXDE-pi/autostart

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

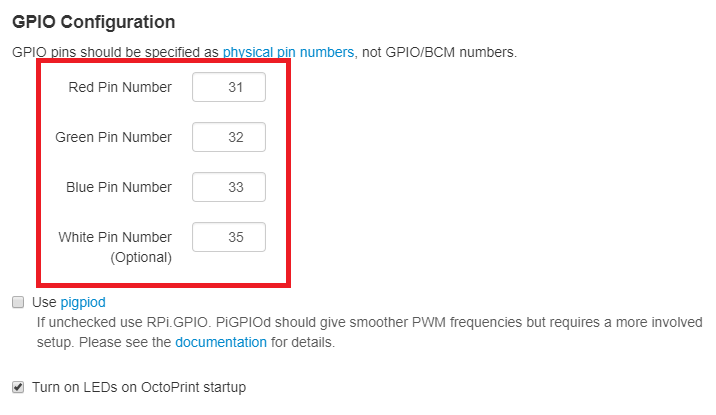


sudo reboot

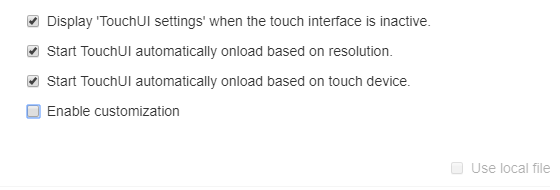
**PSU Control Plug In Setup**

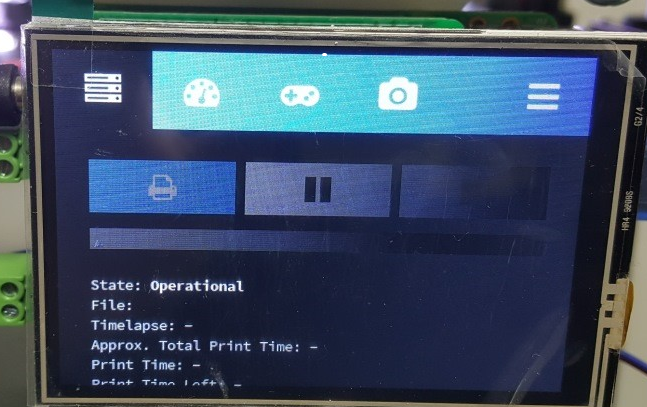


**LED Strip Control Plug in Setup**



**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

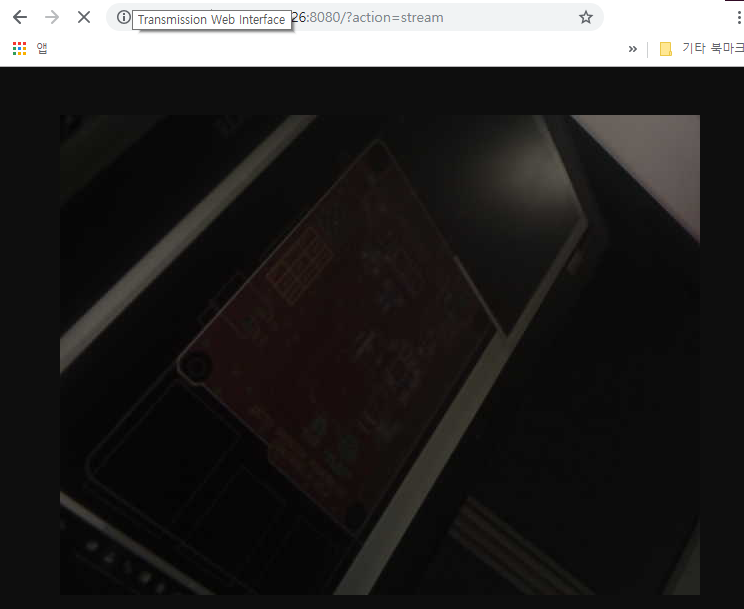
Connecting camera repeat command.

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 Orangepi'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"

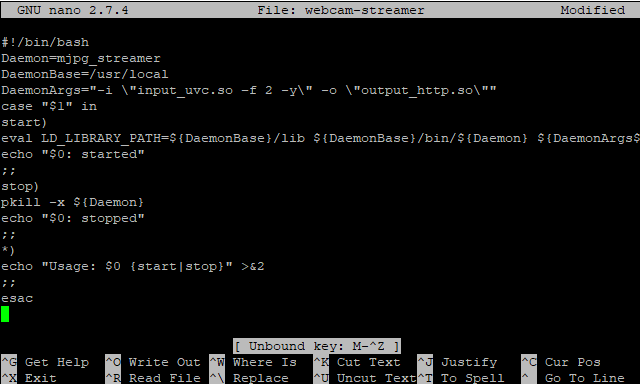
;;

\*)

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

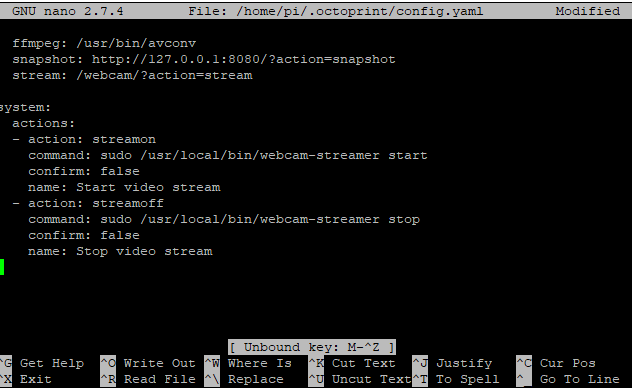
name: Start video stream

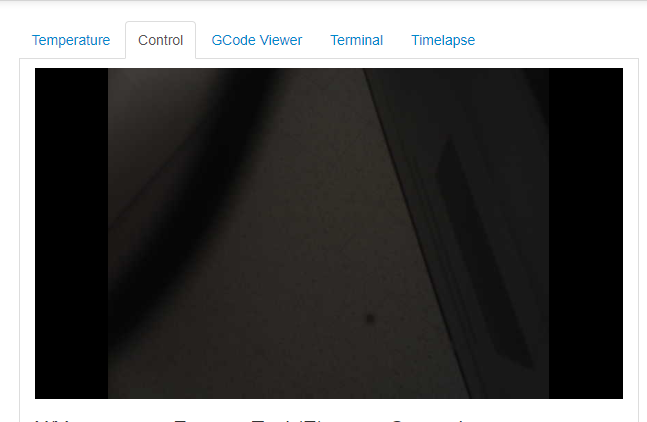
- action: streamoff

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

confirm: false

name: Stop video stream





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).

