

Octodash

Basic OS

download and install the latest [octoPi](#) as in [install_raspbian_on_f2fs_root](#)

Display

get the [display](#) up and running:

```
sudo apt update
sudo apt upgrade
sudo apt install git
git clone https://github.com/waveshare/LCD-show.git
cd LCD-show/
sed -i 's/ext4/f2fs/' cmdline.txt
chmod +x LCD35-show
./LCD35-show
```

this will reboot your raspberry and you should then see some output on your display

add screen calibration

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

OctoDash

to install [OctoDash](#), use the one-liner that they provide on their github page.. at the time of writing this, the command was:

```
bash <(wget -qO-
https://github.com/UnchartedBull/OctoDash/raw/master/scripts/install.sh)
```

that'll do everything for you.

to make sure octodash can start upon booting your raspberry, you need to enable autologin on the console. to do that, start the `raspi-config` utility

```
sudo raspi-config
```

in there go to system options -> S5 Boot / Auto Login and choose the B2 Console Autologin option

go back to the main menu. don't exit yet if you want to add VNC as well.

VNC

in order to remote-control your octodash screen, for example to set up some things or to debug something from remote, you can add VNC.. mind you, this isn't needed for octoprint to work or to be setup, but it may help if you need to debug something and you can't or don't want to connect a keyboard to the raspberry. I would recommend to disable VNC again as soon as you are done debugging whatever you had to debug. It is always a good idea to minimize remote-access to the necessary.

to install VNC, if you haven't already started the `raspi-config` utility, start it now:

```
sudo raspi-config
```

now go to 3 Interface Options -> VNC to install and enable the vnc server.

now that this is done, you can exit `raspi-config`

if you are using another vnc viewer than `realvnc`, you might need to disable encryption as your viewer might not support that. do this only on your LAN, otherwise use a ssh tunnel or similar to protect your VNC session.

to disable encryption create a new file in `/etc/vnc/config.d/common.custom`

```
cat <<EOF | sudo tee /etc/vnc/config.d/common.custom
Authentication=VncAuth
Encryption=AlwaysOff
EOF
```

now set the password you want to use for authenticating your session:

```
sudo vncpasswd -file /etc/vnc/config.d/common.custom
```

finally, restart the vnc service:

```
sudo systemctl restart vncserver-x11-serviced.service
```

you should now be able to login using your password.

before we forget it, let's go ahead and disable the `vncserver` service by default, so it won't be autostarted upon booting your raspberry but only on demand:

```
sudo systemctl disable vncserver-x11-serviced.service
```

if you want to use your vnc server in the future, start it manually via an ssh session:

```
sudo systemctl start vncserver-x11-serviced.service
```

and stop it once you're done

```
sudo systemctl stop vncserver-x11-serviced.service
```

Calibrate the screen

before we can setup octodash, we need to calibrate our touchscreen.

first, make sure there is a `/etc/X11/xorg.conf.d` directory in place, simply run

```
sudo mkdir -p /etc/X11/xorg.conf.d
```

which will create it for you if it doesn't exist yet

in an ssh session, start the xinput calibrator:

```
export DISPLAY=:0.0
sudo xinput_calibrator --output-filename /etc/X11/xorg.conf.d/99-
calibration.conf
```

for some reason, on my WaveShare 3.5 in display, the touch input was rotated 90° clockwise of what it should have been.. to solve this, i had to add the following line to the `99-calibration.conf` file.

```
Option "TransformationMatrix" "0 -1 1 1 0 0 0 0 1"
```

for more information, see [the waveshare driver github page](#)

sidenote: to get xinput you have to install it first using

```
sudo apt install xinput
```

also having xeyes really helps to debug touchscreen calibration:

```
sudo apt install x11-apps
export DISPLAY=:0.0
xeyes
```

if they don't stare at your finger, your calibration is off :)

now reboot your raspberry and you should be able to go through the octodash setup using your touchscreen

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