Tontec 3.5" Screen Driver Install Instructions - Model: MZ61581

This is the newest version updated on 2015-09-05

Below you will find instructions for installing the appropriate drivers for the Tontec 3.5 inch screen on your Raspberry Pi (including Pi 2). This guide was written for Raspbian wheezy, specifically **2015-05-05-raspbian-wheezy.img**, though the guide should work on later versions as well.

1. Initial Config of New Raspberry Pi Install

After booting your Raspberry Pi for the first time on Raspbian-Wheezy, we will need to perform the normal tasks of setting up our Raspberry Pi. E.g expand filesystem,
Then we need "update" and "upgrade"

```
sudo apt-get update
sudo apt-get upgrade
sudo reboot
```

2. Update Firmware

We now need to update the dtb file to the newest version to support Tontec screen.

```
cd /boot/overlays
sudo rm mz61581-overlay.dtb
sudo wget http://www.itontec.com/mz61581-overlay.dtb
sudo reboot
```

3. Enable SPI and set overlay for Tontec MZ61581 Screen

Open /boot/config.txt

```
sudo nano /boot/config.txt
```

And add these lines to the bottom

```
dtparam=spi=on
dtoverlay=mz61581
```

Then save and reboot

4. Set Tontec 3.5 Screen as the default display instead of HDMI

Here we will change the default output display from HDMI to Tontec Screen

```
sudo nano /usr/share/X11/xorg.conf.d/99-fbturbo.conf
```

Change

> Option   "fbdev" "/dev/fb0"

To

```
          Option          "fbdev" "/dev/fb1"
```

- if you want to switch back to the HDMI display, just change it back to fb0

5. Edit cmdline.txt

Here we will enable Tontec Screen to display during the booting process

```
sudo nano /boot/cmdline.txt
```

Add **fbcon=map:10** at the end of current line. (No need to start a new line)

6. Reboot

```
sudo reboot
```

Done!

- **Calibrate (optional)**

If you need to calibrate the touchscreen for X, Please download the instruction at
http://s3.amazonaws.com/ttbox/35calibrate.zip

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