Affordable 5” Touch Screen for Raspberry PI

Mar 22, 2018

I got a very cool little 5” touch screen, with case for $30.00, and I may try to grab one more of these screens.

<https://www.amazon.com/IUNIKER-Raspberry-5-Inch-Resistive-Screen/dp/B00Z9NN7OO/ref=sr_1_10?ie=UTF8&qid=1521316015&sr=8-10&keywords=5+inch+touch+screen+raspberry+pi#customerReviews>

Ok, so this is an older screen - that was made when the Raspberry PI 2 was just coming out. It was designed to work with the PI 2. And with the Wheezy Distro. It will work with some software modifications with Jessie and Stretch.

It seems to work better with older versions of Jessie, and the touch screen is easier to configure.

With Stretch I couldn’t get the touch screen to calibrate correctly, and it’s always off just a little. There is also a small line on the left side of the screen, almost like the screen needs to be shifted to the left and a little to the top.

The biggest thing people complain about this screen is the lack of instructions - lucky on the page to buy it, there are plenty of people who posted what they did to get it work.

There is also a little information that can be downloaded from Amazon.

[**https://s3.amazonaws.com/rpi2/rpi+screen/5inlcddriverandfiles.rar**](https://s3.amazonaws.com/rpi2/rpi+screen/5inlcddriverandfiles.rar)

Jessie and Stretch config.txt needs to be changed:

hdmi\_cvt=800 480 60 6

framebuffer\_width=800

framebuffer\_height=480

hdmi\_group=2

hdmi\_mode=87

dtparam=spi=on

dtparam=i2c\_arm=on

dtoverlay=ads7846, cs=1 speed=50000 penirq=25, penirq\_pull=2, swapxy=0, xmin=200, ymin=200, xmax=3900, ymax=3900, pmin=0, pmax=155, xohms=150

dtoverlay=w1-gpio-pullup,gpiopin=4,extpullup=1

To configure the touch screen you need to install xinput-calibrator

sudo apt-get install xinput-calibrator

Stretch appears to be able to display better resolutions on this, and that setting is in the preference menu.

This forum post would hint that some of the numbers maybe wrong for Jessie.

<https://www.raspberrypi.org/forums/viewtopic.php?f=29&t=105755>

dtoverlay=ads7846, penirq=17, pmax=255, ymin=0, ymax=3850, xmax=3850, xmin=0, xohms=100, swapxy=1, verbose=3

Other posts in the same topic would suggest that it’s just the xmin, ymin, xmax, ymax numbers the rest is correct.

Here is another possible fix for the touch screen and Stretch:

<https://raspberrypi.stackexchange.com/questions/65814/ads7846-touchscreen-configuration>

I encountered the same problem as you on a Pi 3 with the latest Raspbian Stretch, luckily the seller of my touchscreen provided a solution and it works in my case. As he says this problem may because the xserver-xorg-input-evdev is not installed.

Just execute:

sudo apt-get install xserver-xorg-input-evdev sudo cp -rf /usr/share/X11/xorg.conf.d/10-evdev.conf /usr/share/X11/xorg.conf.d/45-evdev.conf

After reboot my touchscreen worked correctly.

This by itself did not work for me, but maybe with the combination of xinput-calibrator and -evdev it did work. Because I now appear to have a working touch screen with good calibrations using Stretch.