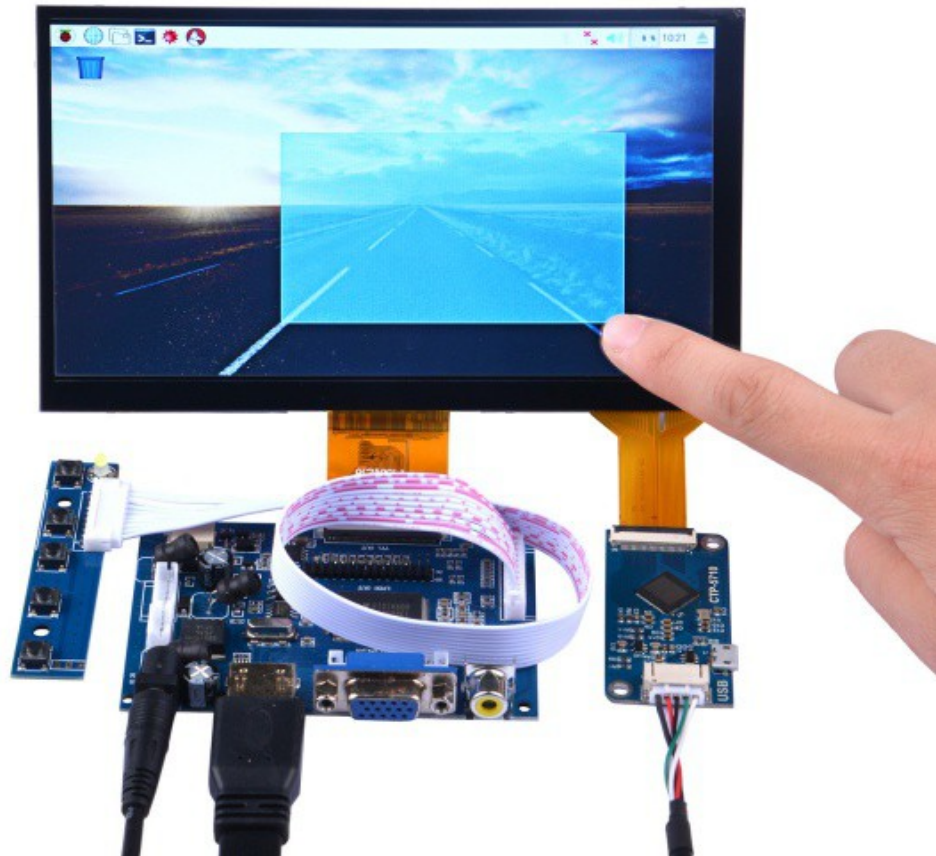# 7-Inch-1024x600 Capacitive Touch Screen DIY Kit
SKU: EP-0084

Description

This is a new DIY kit for all makers; it is a fantastic HDMI monitor with capacitive touch screen and driver free.
It's based on 7 Inch 1024x600 Display Kit (without Touch Screen) SKU:Z-0051
We added a CTP driver board and provided a capacitive touch screen to make it a whole new suite.
After that, you don't need to calibrate your touch screen, and make your 7 inch display a touch screen.
It's been tested on Raspberry Pi, beagle bone black, PC and Mac book.
And it works well on those platforms and it is really plug and play.
It supports 1024x600 resolution and supports approximate 30fps, maximum 60fps.
The capacitive touch function give the user full control over any device.
It's driver free for your device due to built-in EDID device information.
Tt is very easy to let the equipment correctly identified the touch screen.
The capacitive USB touch screen can support functions of the right mouse button and drag and drop.
It can support multipoint touch, maximum 10 points. (Only test in windows 10)
Note: Touch Panel DO NOT SUPPORT KODI OS.

Feature

- Operating voltage: 5V (current requirement 2A), 9V@1.5A (recommended), 12V@1A
- Rated power: 6-7W
- Signal input: AV + VGA + HDMI (HDMI 1.2)
- Resolution: 1024x600
- Plug and Play, free driver
- Brightness: 250 cd/m² (Typ.)
- Contrast Ratio: 500:1 (Typ.) (TM)
- View Angle: 70/70/50/70 (Typ.) (CR≥10)
- Respones Time: 10/15 (Typ.) (Tr/Td) ms
- OSD language: Simplified Chinese, Traditional Chinese, English, Japanese, Korean, Spanish, French, German, Italian, Portuguese
- Control: Multi-function OSD operation or potentiometer adjust the brightness and color
- Using mature program, clear display
- Multipoint touch, maximum 10 points. (Only test in windows 10)
- Support image flip up and down, the image can conversion 4: 3 / 16: 9 display format
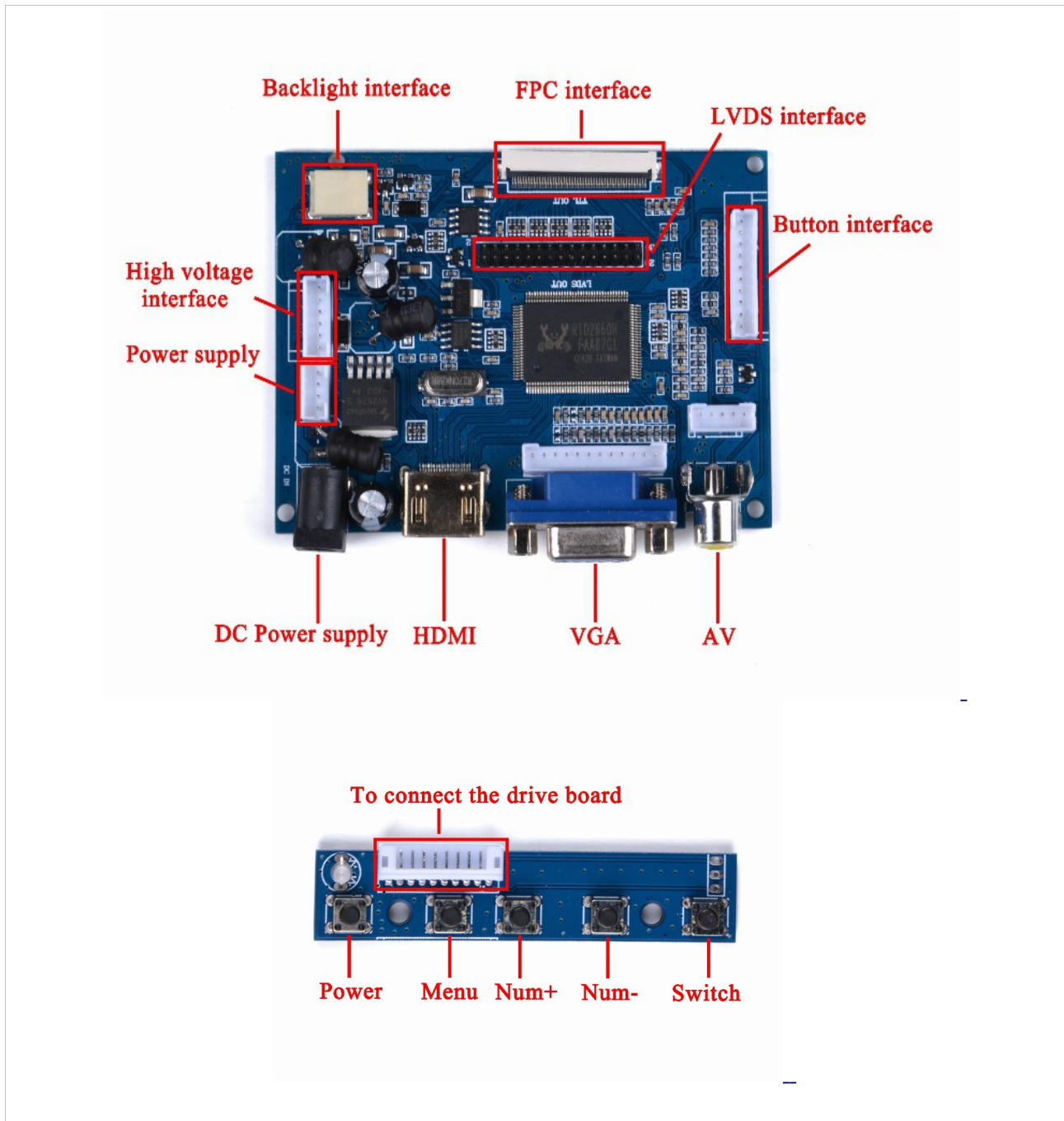- Support 30fps, maximum 60fps.

Package Includes

- 7 inch 1024x600 High Resolution Screen x 1
- 7 inch Capacitive Touch Panel x 1
- HDMI/VGA/S-Video Video driver board x1
- CTP driver board (Capacitive Touch Panel Driver board) x 1
- Key board x1
- Key board cable wire x1
- Driver board Power supply cable wire x1
- USB touch screen cable wire x 1

Connection Details

The CTP driver board has two USB port type, one of them is a MicroUSB cable on the right side. (Both of them are available for your touch screen, one of them should be connected to the output device.)

Work with Raspberry Pi

If you are using Raspberry Pi, you can change resolution by these steps:
Login to your Raspberry Pi and edit /boot/config.txt file, make sure it has following parameter:
hdmi_force_hotplug=1
hdmi_group=2
hdmi_mode=87
hdmi_cvt 1024 600 60 3 0 0 0
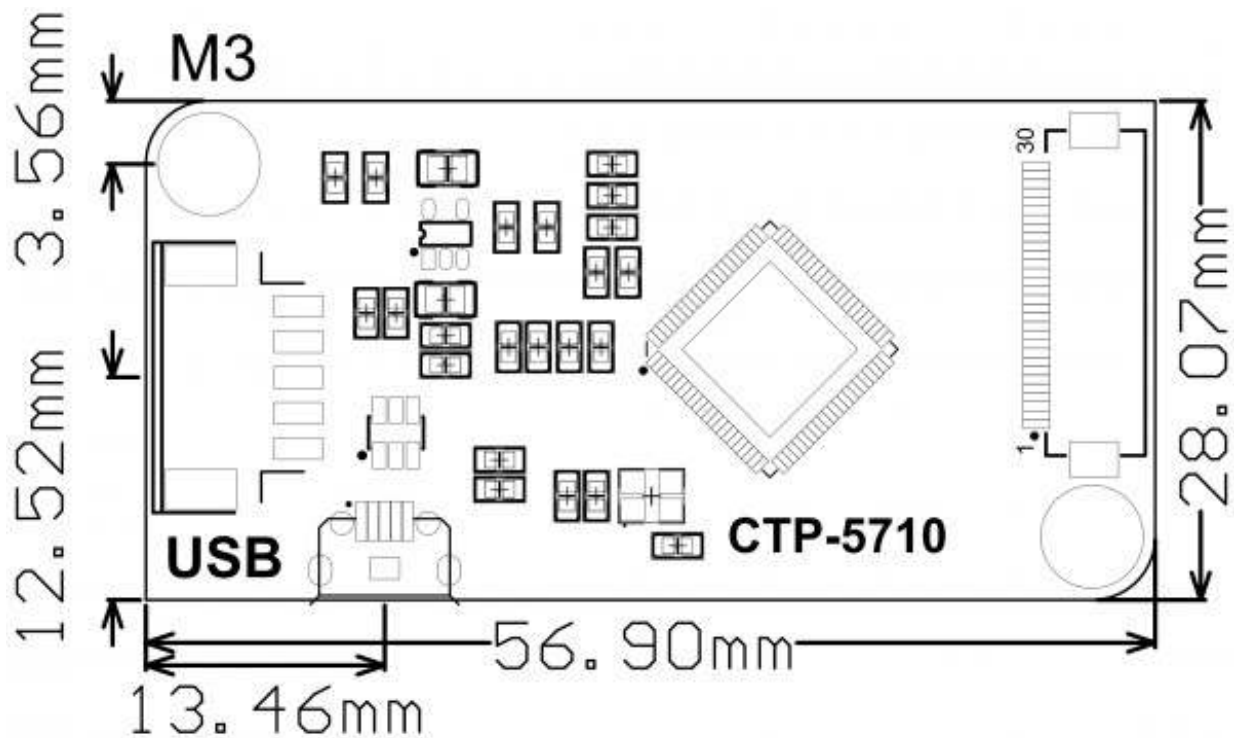Save it and reboot your system.

FAQ

If touch screen is out of work please make sure you connect the Display's MicroUSB Port to your device (PC, Raspberry Pi, Beagle bone black etc.)
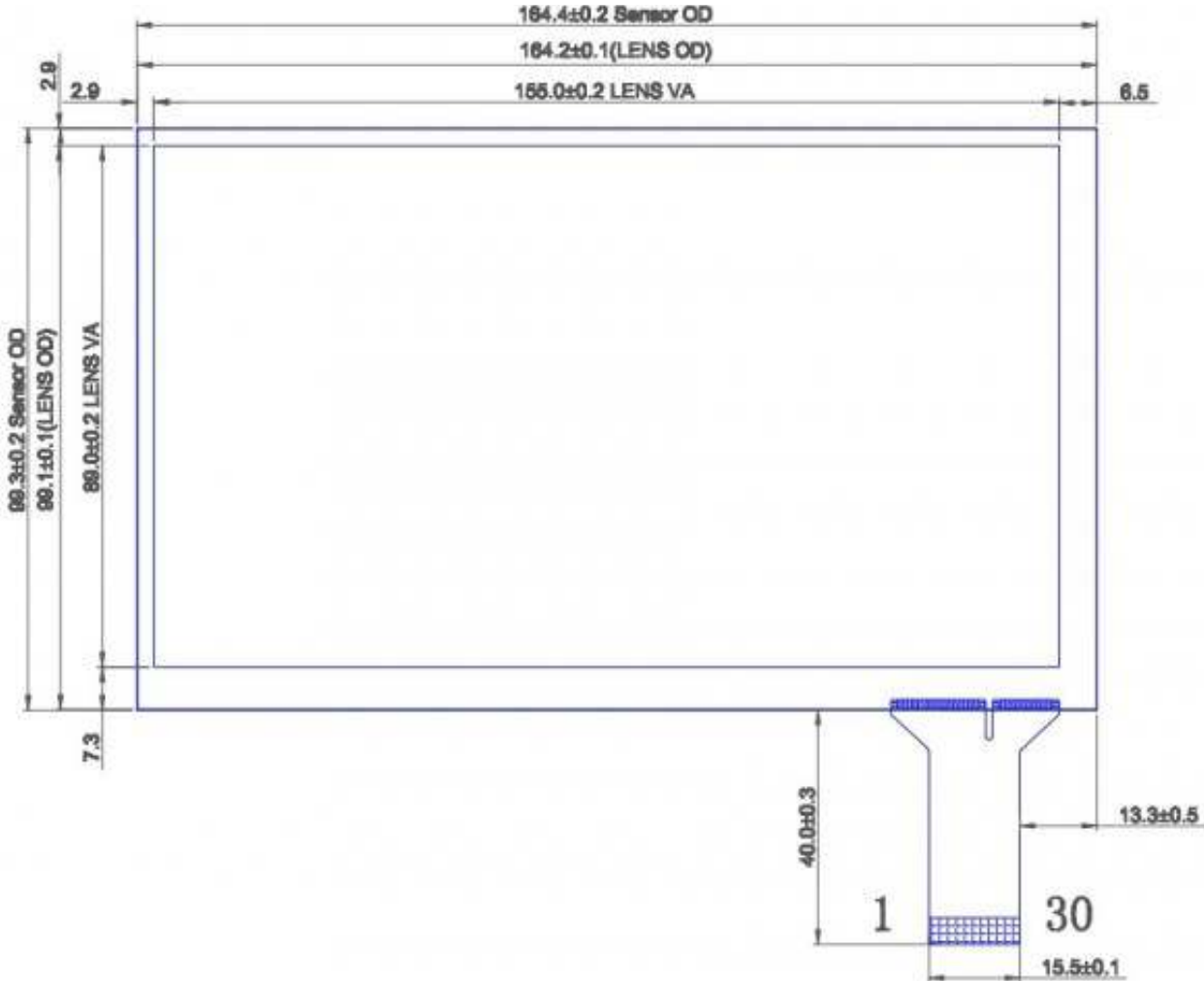
Note: We are not sure it can work at android system due to it dose not test in android OS yet.

If you find that the screen is blur when you connect it to your device, please check the FPC cable on the back of driver board,
it may loose when it was shipping to you.
Just pull out the block of the FPC cable and put the FPC wires into it and make sure it fasten tightly and retry it again.
Please take care of this cabin cable; it's connected to the board and sends the touch screen data to the chip on the board.

CTP Mechanical Drawing

TP Mechanical Drawing

164.4±0.2 Sensor OD
164.2±0.1(LENS OD)
155.0±0.2 LENS VA

2.9
2.9
6.5

99.3±0.2 Sensor OD
99.1±0.1(LENS OD)
89.0±0.2 LENS VA

7.3

40.0±0.3

13.3±0.5

1   30

15.5±0.1

Video Driver Board Mechanical Drawing