

7" HDMI Display with Capacitive Touchscreen SKU: DFR0506

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Introduction



(/wiki/index.php/%E9%93%BE%E6%8E%A5%E
7 HDMI Display with Capacitive Touchscreen
(<https://ProductLink>)

This is a 7" HDMI display with capacitive touchscreen. It comes with a 7" LCD screen with capacitive touch panel overlay on it. The touch panel supports up to 5 touch points. And it adopts DFRobot USB free-driver technology, no special requirement of drivers. You can use it as easy as keyboard or mouse. It can be directly plugged to PC for touching control. In combination with HDMI HD screen, it can turn a large PC to a tablet immediately.

The screen supports Windows, Linux and MAC OS. It can be used on LattePanda, Raspberry Pi and other HDMI device. We also make some special hole to make it compatible with Arduino screw hole. You can mount them on the back of the display directly.

There is no need for external power supply for the screen, it can be powered by USB port and HDMI port. The display also supports back light adjustment. It is very convenient to adjust backlight by potentiometer on the back of the display.



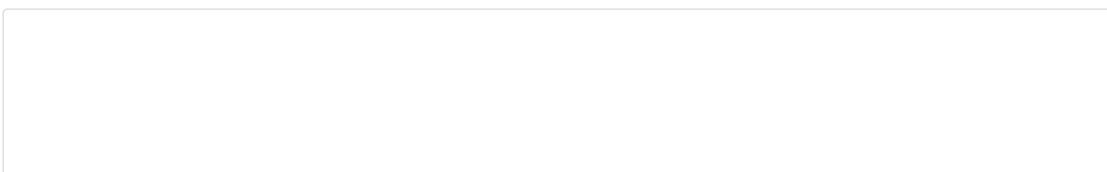
(/wiki/index.php/File:Warning_yellow.png)

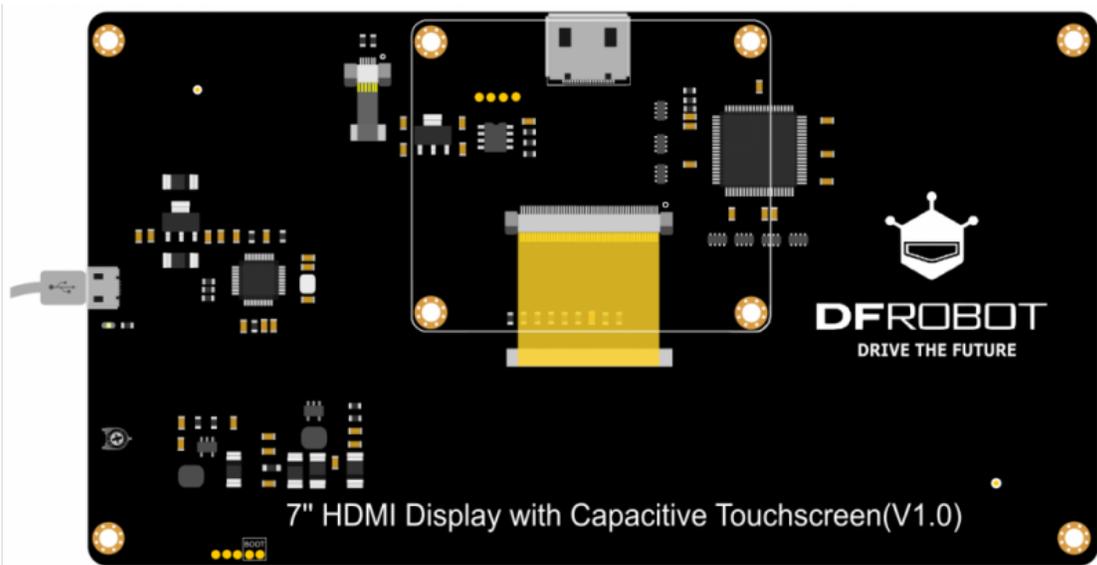
Note: Please guarantee the external power supply current is above 1.5A@5V when it is driven by raspberry Pi. The lower current will reduce the touching sensitivity.

Specification

- Operating Voltage: 5V
- Operating Current: 160mA (with HDMI connection)
- Maximum Operating current: 1200mA
- Refresh Frequency: 43Hz (not recommended 60Hz, it will not be full screen)
- Screen Resolution: 1024x600
- Video Interface: HDMI
- Dimensions: 183mm x 100mm/ 7.2" x 3.93"
- Mounting hole size: 3.1mm x 6mm
- Weight: 250g

Screen Overview





(/wiki/index.php/File:DFR0506_Overview.png)

Back of 7 HDMI Display with Capacitive Touchscreen

- Standard HDMI
- Standard Micro USB

Tutorial

Touchscreen with Raspberry Pi

You need to reset resolution to avoid touch differentiation caused by resolution difference between Raspberry Pi and the Touchscreen.

- Enter /boot/config.txt, modify or add the project as below:

```
#remove black borders
disable_overscan=1

#set specific CVT mode
hdmi_cvt 1024 600 60 6 0 0 0

#set CVT as default
hdmi_group=2
hdmi_mode=87
```

NOTE: Windows and MAC operating system can capture resolution automatically, so you don't need to modify any parameter.

FAQ

Q1. The touch panel is very insensitive

A. Please check the power resource. It won't work under lower power supply.

For any questions, advice or cool ideas to share, please visit the **DFRobot Forum** (<http://www.dfrobot.com/forum/>).

More Documents

 (<http://www.dfrobot.com/>) Get [[link 7 HDMI Display with Capacitive Touchscreen](#)] from **DFRobot Store** or **DFRobot Distributor**. (<http://www.dfrobot.com/index.php?route=information/distributorslogo>)



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