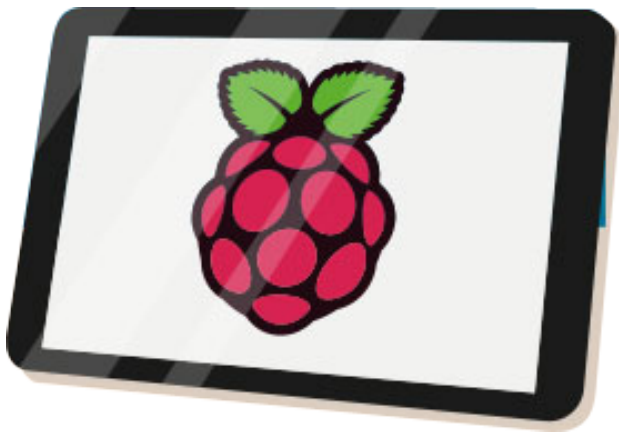


Raspberry Pi 7" Touchscreen Display



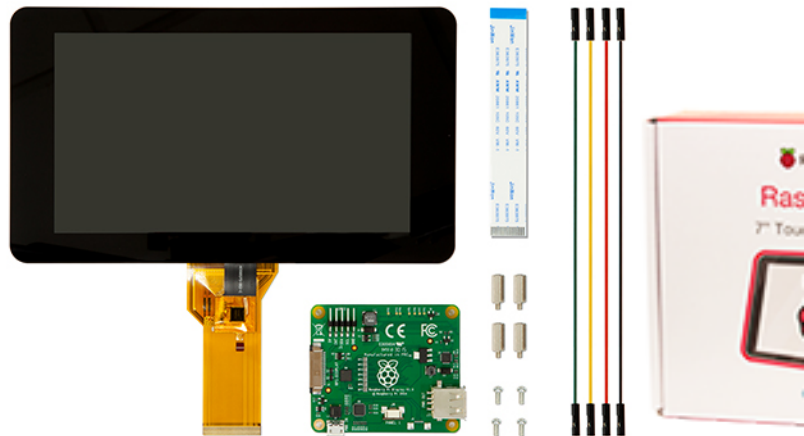
Raspberry Pi 7" Touchscreen Display

[Buy Now](#)Buy Now[Display Installation Guide](#) on page 3

[Install Virtual Keyboard*](#) on page 2 [Other Pi Accessories](#) ▶

The 7" Touchscreen Monitor for Raspberry Pi gives users the ability to create all-in-one, integrated projects such as tablets, infotainment systems and embedded projects. The 800 x 480 display connects via an adapter board which handles power and signal conversion. Only two connections to the Pi are required; power from the Pi's GPIO port and a ribbon cable that connects to the DSI port present on all Raspberry Pi's. Touchscreen drivers with support for 10-finger touch and an on-screen keyboard will be integrated into the latest Raspbian OS for full functionality without the need for a physical keyboard or mouse.

*Note: Your NEW Rasp Pi 7.0 needs you to [Add a Virtual Keyboard](#) on page 2...



Raspberry Pi Sense HAT



[Learn More](#) ▶

Technical Specification:

- 7" Touchscreen Display
- Screen Dimensions: 194mm x 110mm x 20mm (including standoffs)
- Viewable screen size: 155mm x 86mm
- Screen Resolution 800 x 480 pixels
- 10 finger capacitive touch
- Connects to the Raspberry Pi board using a ribbon cable connected to the DSI port
- Adapter board is used to power the display and convert the parallel signals from the display to the serial (DSI) port on the Raspberry Pi
- Will require the latest version of Raspbian OS to operate correctly

Features and Benefits

- Turn your Raspberry Pi into a touch screen tablet, infotainment system, or standalone device.
- Truly Interactive - the latest software drivers will support a virtual 'on screen' keyboard, so there is no need to plug in a keyboard and mouse.
- Make your own 'Internet of Things' (IoT) devices including a visual display. Simply connect your Raspberry Pi, develop a Python script to interact with the display, and you're ready to create your own home automation devices with touch screen capability.
- A range of educational software and programs available on the Raspberry Pi will be touch enabled, making learning and programming easier on the Raspberry Pi.

Compatible With:

[Raspberry Pi 3 Model B](#)
[Raspberry Pi 2 Model B](#)
[Raspberry Pi Model B+](#)
[Raspberry Pi Model A+](#)

Kit Contents

- 7" Touchscreen Display
- Adapter Board
- DSI Ribbon cable
- 4 x stand-offs and screws (used to mount the adapter board and Raspberry Pi board to the back of the display)
- 4 x jumper wires (used to connect the power from the Adapter Board and the GPIO pins on the Pi so the 2Amp power is shared across both units)

NOTE: THE RASPBERRY PI AND POWER SUPPLY ARE NOT INCLUDED IN THIS KIT AND ARE SOLD SEPARATELY.

The display will technically work with the Model A and Model B boards (connecting it to the DSI port on the Pi board), however the mounting holes on the back of the display will only line up with the newer board design (A+, B+, Pi 2 and Pi 3).

How to Install the Matchbox-Keyboard for your Pi

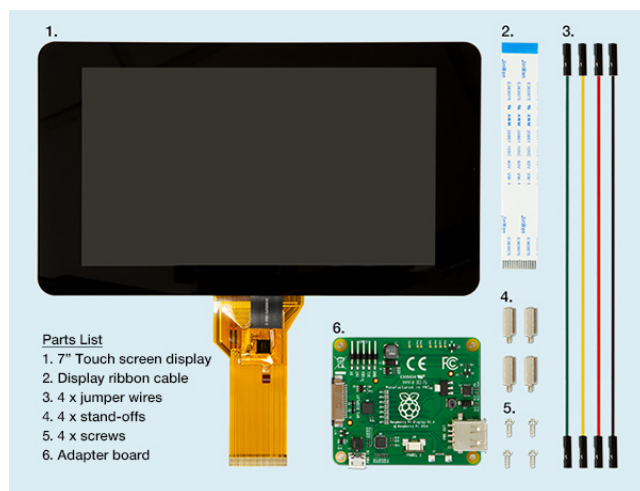


1. Connect a physical keyboard to the Raspberry Pi (or SSH into it if that's your thing.)
2. Connect to the internet via WiFi or Ethernet.
3. Open the terminal.
4. Type **sudo apt-get install matchbox-keyboard**
5. Let the program download & install (takes 30s-1min depending on your connection.)
6. Exit the terminal & reboot your Pi.
7. The keyboard can be found by clicking the Menu -> Accessories -> Keyboard.

Operating System Support

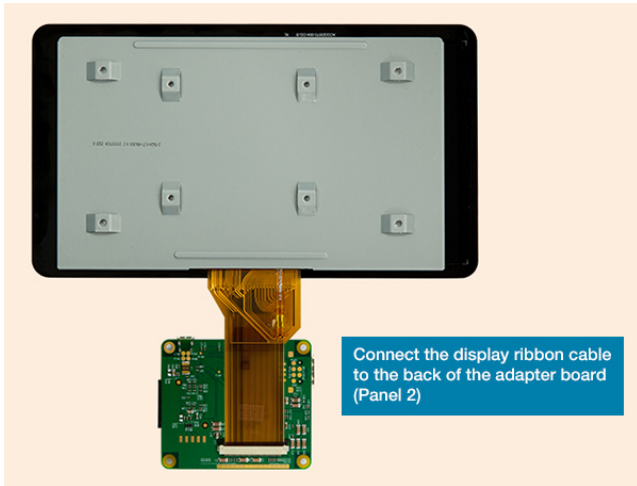
In order to be sure you're running the latest version of Raspbian, connect your Raspberry Pi to the Internet and then open LX Terminal. Type '**sudo apt-get update**' to download the latest version of the OS. Once that's complete, type '**sudo apt-get upgrade**' to apply the download to your Raspberry Pi. That way you'll have all of the latest drivers and software needed to support the touch screen display.

Step 1

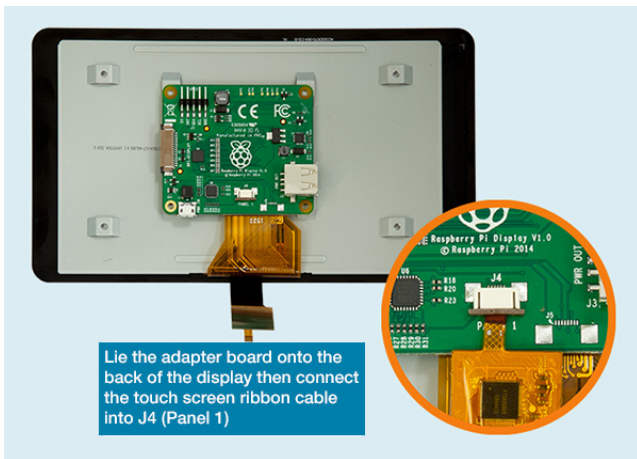


Step 2

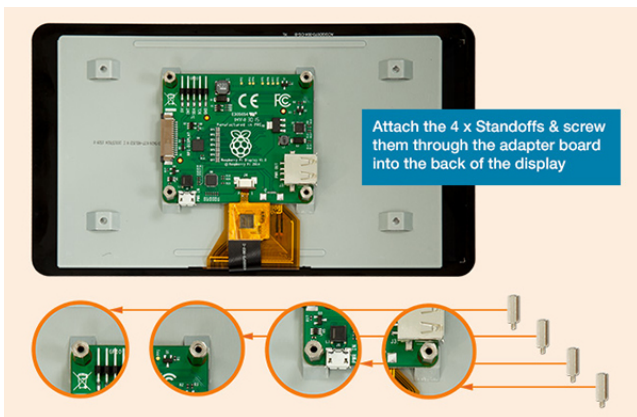
Raspberry Pi 7" Touchscreen Display



Step 3

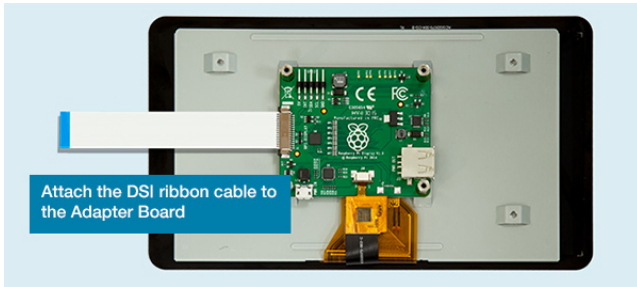


Step 4

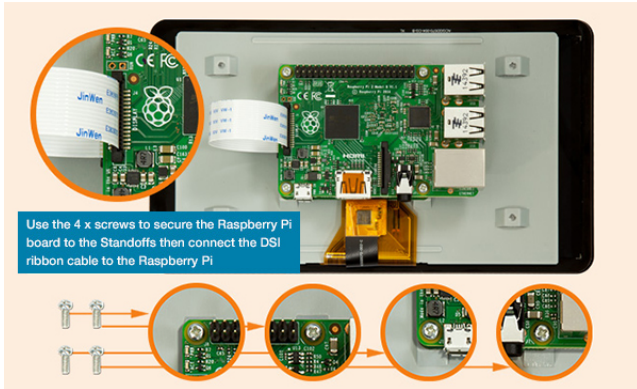


Step 5

Raspberry Pi 7" Touchscreen Display



Step 6



Step 7

Connect the jumper wires from the Raspberry Pi to the adapter board

Pin#	NAME	Pin#	NAME	Pin#
01	3.3v DC Power	02	DC Power 5v	02
03	GPIO 2 (SDA1 - I2C)	04	DC Power 5v	04
05	GPIO 3 (SCL1 - I2C)	06	Ground	06
07	GPIO 4 (GPIO_DCLK)	08	(TXD0) GPIO14	08
09	Ground	10	(RXD0) GPIO15	10
11	GPIO17 (GPIO_GEN0)	12	(GPIO_GEN1) GPIO18	12
13	GPIO27 (GPIO_GEN0)	14	Ground	14
15	GPIO22 (GPIO_GEN0)	16	(GPIO_GEN4) GPIO23	16
17	3.3v DC Power	18	(GPIO_GEN5) GPIO24	18
19	GPIO10 (SPL_MOS0)	20	Ground	20
21	GPIO 9 (SPL_MSD0)	22	(GPIO_GEN6) GPIO25	22
23	GPIO11 (SPL_CLK)	24	(SPL_CEL_N) GPIO:8	24
25	Ground	26	(SPL_CEL_N) GPIO:7	26
27	ID_SD (PC ID EEPROM)	28	(PC ID EEPROM) ID_3C	28
29	GPIO 5	30	Ground	30
31	GPIO 6	32	GPIO12	32
33	GPIO13	34	Ground	34
35	GPIO19	36	GPIO16	36
37	GPIO28	38	GPIO20	38
39	Ground	40	GPIO21	40

Step 8

Insert a Micro SD Card into the Raspberry Pi with the Latest version of Raspbian installed then attach a 2Amp Power Supply to the Raspberry Pi Adapter Board to power the display and Raspberry Pi Board.

Alternative methods of powering the Touchscreen Display
 Connect a MicroUSB cable from the 'PWR OUT' port on the adapter board to the 'PWR IN' MicroUSB port on the Raspberry Pi board. Then connect a 2Amp external power supply to the 'PWR IN' port on the adapter board
 Or
 Power both boards independently using separate 2Amp external power suppliers connected to the 'PWR IN' ports on both the Raspberry Pi board and the adapter board

Step 9

Raspberry Pi 7" Touchscreen Display

Operating Software:

Now that you've assembled your Raspberry Pi Touchscreen Display, you will need to download and install the latest version of the Raspbian Operating System - available to download from the Raspberry Pi Foundation at: <https://www.raspberrypi.org/downloads/>

Once installed, type

```
sudo apt-get update
```

and

```
sudo apt-get upgrade
```

(in that order) to install all of the latest drivers and software to support the Touchscreen Display.

