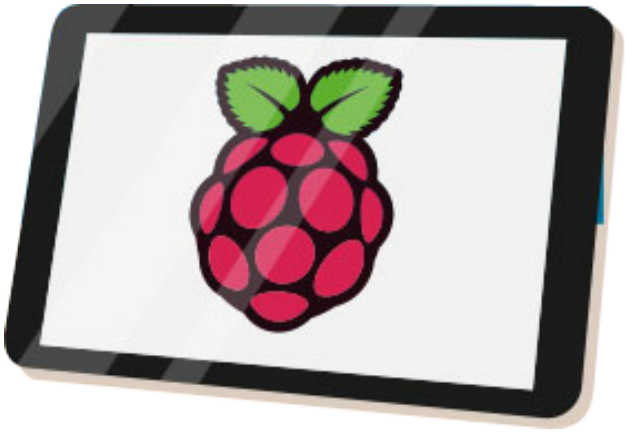
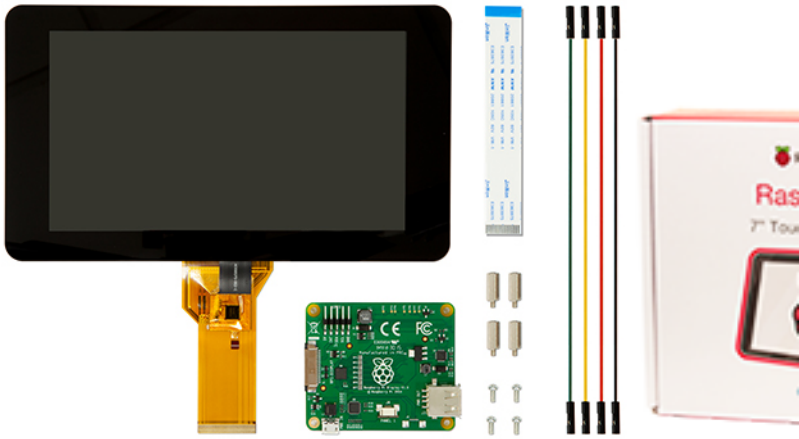
Raspberry Pi 7” Touchscreen Display



Raspberry Pi 7" Touchscreen Display
Buy NowBuy NowDisplay 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

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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.

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.

Compatible With:

Raspberry Pi 3 Model B
Raspberry Pi 2 Model B
Raspberry Pi Model B+
Raspberry Pi Model A+

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).

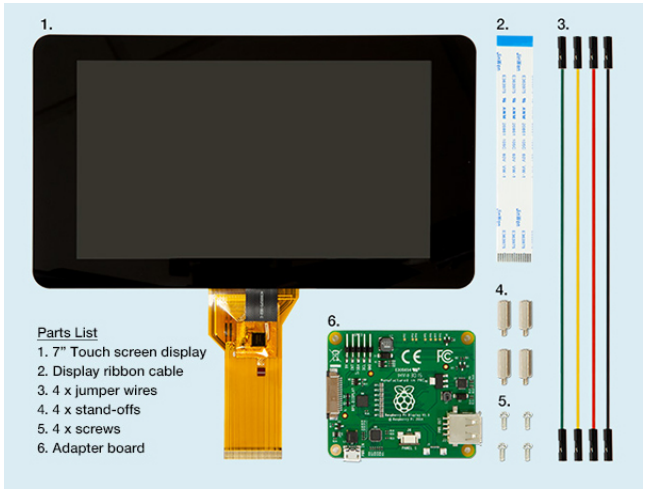
How to Install the Matchbox-Keyboard for your Pi

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



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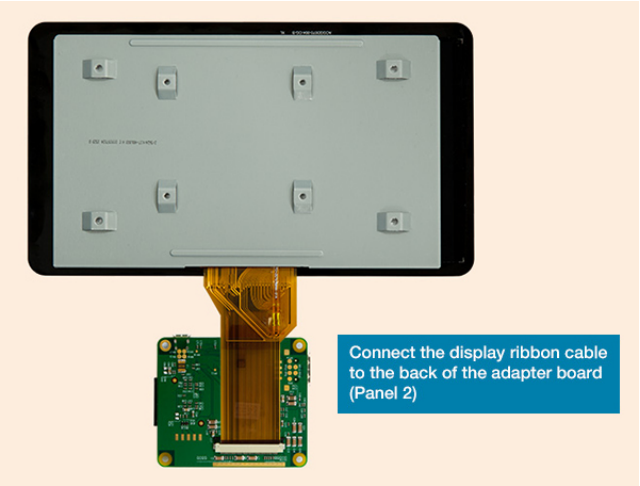
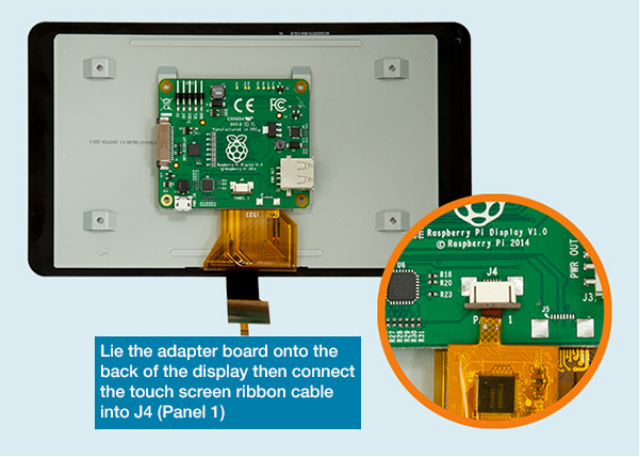


Step 3



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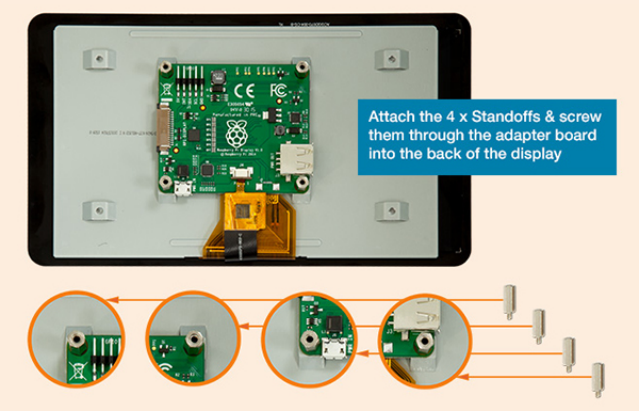
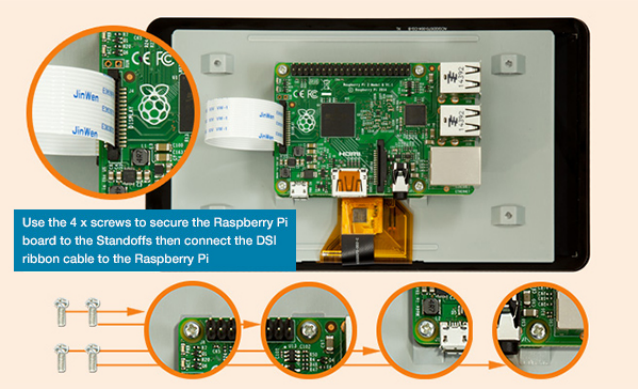


Step 5

Step 6



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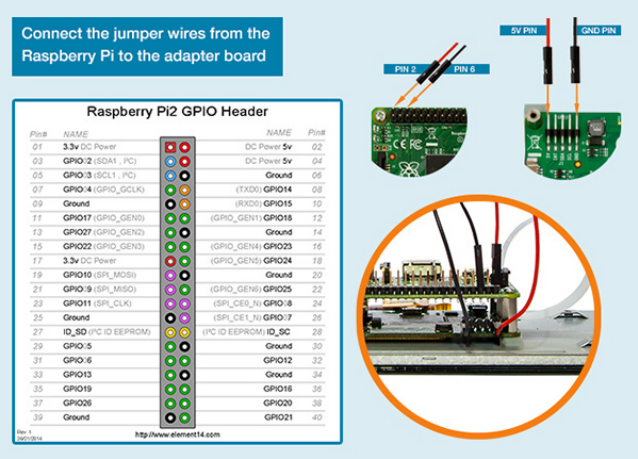

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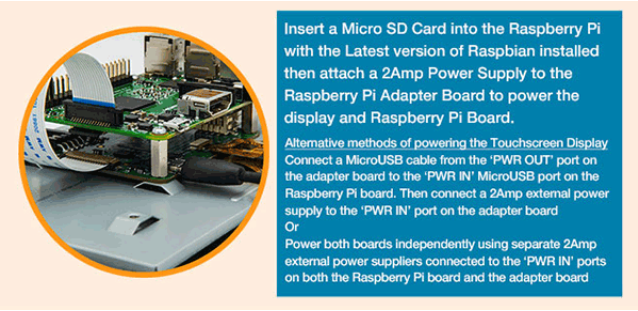
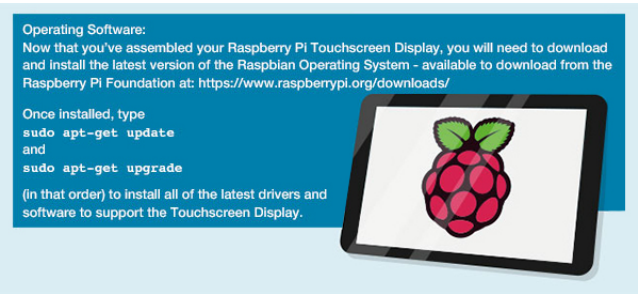


Step 9


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.