

# 7inch HDMI LCD (B)

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Explanation data FAQ Aftermarket

## 7inch HDMI LCD (B)

Standard Edition Black and white shell



(<http://www.waveshare.net/shop/7inch-HDMI-LCD-B.htm>)

### Basic Information

**classification:**Raspberry Pi LCD module

**Brand:**Waveshare

### Features

<b>characteristic</b>	7-inch capacitive screen driving raspberry pie multi-system support		
<b>Resolution</b>	800x480		
<b>Scope</b>	Raspberry Pi, BB Black, Banana Pi ...		
<b>interface</b>	HDMI	USB	
	(/wiki/%E5%88%86%E7%B1%BB%3AHDMI%E6%8E%A5%E5%8F%A3)	(/wiki/%E5%88%86%E7%B1%BB%3AUSB%E6%8E%A5%E5%8F%A3)	

### Related Products

- ◆ . 7 inch screen in black and white shell (<http://www.waveshare.net/shop/7inch-HDMI-LCD-Bicolor-Holder.htm>)
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- ◆ 3.5inch RPi the LCD (the A) (/wiki/3.5inch\_RPi\_LCD\_(A))
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### product description

This product is designed for Raspberry Pi build, but not limited pie raspberry 7-inch HDMI monitor, 800x480 HD resolution, with capacitive touch screen. This product is also generic HDMI display, the user can put it to use on other mini PC (need driver support), even as a computer monitor.

### Product Features

- 800 × 480 HD resolution
- Capacitive touch control
- Support Raspberry Pi
- Support Banana Pi, Banana Pro, providing Lubuntu, Raspbian corresponding mirror

- Support BB Black, Angstrom offers corresponding mirror
- Universal HDMI display can be used as a computer monitor
- HDMI interface for display, USB interface for touch
- Support backlight control, more power

## how to use

1. For Windows computer system. The LCD can work on the PC version of Windows 7/8 / 8.1 / 10 systems. Instructions:

- 1) Open the back of the LCD backlight switches.
- 2) of the LCD Touch interface to connect to a PC's USB port. Wait a moment, Windows will automatically recognize the touch function.
- 3) The LCD HDMI interface to connect to a PC's HDMI interface.

Note: When the computer simultaneously connect multiple displays, cursor control only via the LCD display on the main, it is proposed to set up the main LCD display.

2. For the Raspberry Pi Raspbian / Ubuntu mate system. When the LCD works in raspberry faction Raspbian / Ubuntu mate system, you must manually set the resolution, otherwise it will show black and white stripes. When the LCD work on the PC version of the Windows system, no such problem.

- 1) The Raspbian image is written to TF card.
- 2) config.txt file editing TF card root directory. In config.txt end of the file add:

```
1. max_usb_current = 1
2. hdmi_group = 2
3. hdmi_mode = 1
4. hdmi_mode = 87
5. hdmi_cvt 800 480 60 . 6 0 0 0
```

- 3) save the TF card into the raspberry pie.
- 4) Open the back of the LCD backlight switches.
- 5) The LCD Touch interface to connect to the Raspberry Pi USB interface.
- 6) The LCD HDMI interface to connect to the Raspberry Pi HDMI interface.  
(If it works touch, indicating that the Rev2.1 firmware. If firmware is Rev1.1 See # About version )

Note: CD-ROM supplied Raspberry Pi system does not apply to the third generation. If you use a third-generation Raspberry Pi, please download the latest Raspbian in raspberrypi.org mirror, and then follow the above can be set. Ubuntu mate system to modify the same method in the config file add the same statement.

## About Version

Rev2.1 version (upgrade version):

- Using standard HID protocol, allowing you to migrate to its own systems
- When used with the Raspberry Pi, support Raspbian, Ubuntu, Windows 10 IoT, single-touch, free drive
- Use as a computer monitor, support Windows 10 / 8.1 / 8/7, five-point touch, free drive

**Note: Many manufacturers cottage plagiarism is Rev1.1 version.**

Rev1.1 version (unscrupulous businessmen piracy cottage is the version):

- Using proprietary HID protocol, transplanted to their own systems more difficult
- Use with Raspberry Pi, the access Raspbian or Ubuntu system needs to install the driver does not support Windows 10 IoT
- Use as a computer monitor, you can not touch

How to determine your 7inch HDMI LCD (B) using the original Rev1.1 Rev2.1 firmware or the firmware, simply:

- As long as the back of the PCB silkscreen Rev2.1, firmware is Rev2.1
- If you find the back of the LCD screen is Rev1.1, then you can view the delivery date of the order, if it is after 16 years of 1 January delivery also Rev2.1 firmware

Note 1: Rev1.1 only different firmware and Rev2.1, hardware solutions used in the layout and wiring are all the same (PCB silk screen due to different production batches may vary)

Note 2: In fact, in 15 years we will begin shipping in December Rev2.1 version of the firmware LCD, so if you are buying in December, it may be Rev2.1 firmware

More accurate verification test by the following two methods:

1. If there is raspberry pie, it would only need to connect the hardware (the LCD HDMI interface to connect to the Raspberry Pi HDMI interface, a USB interface to connect to LCD Raspberry Pi USB interface, using 5V 2A power adapter as a tree berry pie power supply) and raspberry pie official website to download Raspbian mirror, mirror will burn TF card, open the config.txt file TF card root directory, the file finally add the following code:

```

1. max_usb_current = 1
2. hdmi_group = 2
3. hdmi_mode = 1
4. hdmi_mode = 87
5. hdmi_cvt 800 480 60 . 6 0 0 0

```

After saving and safety eject TF card, the TF card into the raspberry pie, raspberry come to power. If it works touch. Description is Rev2.1 firmware. Ubuntu mate system to modify the same method in the config file add the same statement.

2. If there is no raspberry pie, and that the test need a computer with Windows 10 / 8.1 / 8/7 of the PC (Note: PC can not connect other display devices). The LCD HDMI interface connects to the PC's HDMI interface, LCD USB interface to connect to a PC's USB port (before-USB, followed HDMI). At this point if it is Rev2.1 firmware, you can see the normal Windows recognizes a touch driver Once the driver installation is completed (the first installation generally takes 3 to 5 minutes), you can use the touchpad as input devices for Windows.

- If, after the above test, you still can not use the touch, it may be Rev1.1 firmware, you can press the testing side Rev1.1 firmware for testing.

Depending on the firmware, view the version of the instructions for use:

- Rev2.1 firmware instructions (continuously updated) (</wiki/7inch-HDMI-LCD-B-Manual-Rev2.1>)
- Rev1.1 firmware instructions (</wiki/7inch-HDMI-LCD-B-Manual-Rev1.1>)

6 Category (</wiki/%E7%89%B9%E6%AE%8A%3A%E9%A1%B5%E9%9D%A2%E5%88%86%E7%B1%BB>) :

Module (</wiki/%E5%88%86%E7%B1%BB%3A%E6%A8%A1%E5%9D%97>)

Raspberry Pi LCD (</wiki/%E5%88%86%E7%B1%BB%3A%E6%A0%91%E8%8E%93%E6%B4%BELCD>)

Raspberry Pi (</wiki/%E5%88%86%E7%B1%BB%3A%E6%A0%91%E8%8E%93%E6%B4%BE>) | TFT (</wiki/%E5%88%86%E7%B1%BB%3ATFT>)

Capacitive screen (</wiki/%E5%88%86%E7%B1%BB%3A%E7%94%B5%E5%AE%B9%E5%B1%8F>)

Display (</wiki/%E5%88%86%E7%B1%BB%3A%E6%98%BE%E7%A4%BA%E5%B1%8F>)



(</wiki/%E6%96%87%E4%BB%B6%3APhone-wiki.png>)

Encyclopedia of mobile phone

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