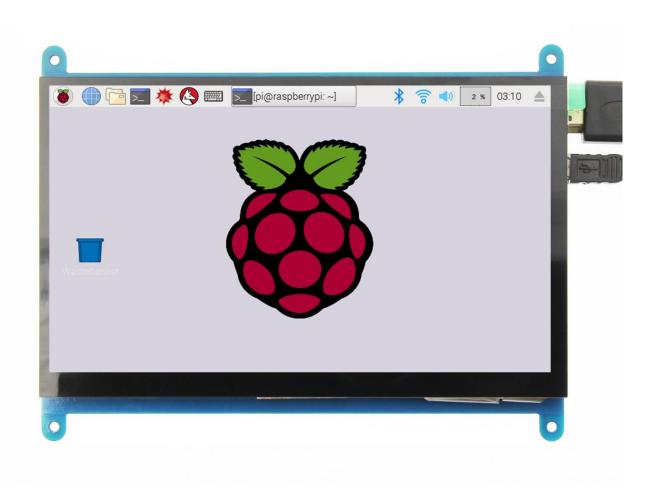
7inch HDMI Display-B

User Manual



[product description]

- ♦ 7" standard display, 800 × 480 Hardware resolution, Up to 1920x1080 software configuration resolution.
- capacitive touch screen, maximum support 5 point touch
- support backlight control alone, the backlight can be turned off to save power
- support Raspberry Pi, BB Black, Banana Pi and other mainstream mini PC
- can be used as general-purpose-use HDMI monitor, for example: connect with a computer HDMI as the sub-display
- used as a raspberry pi display that supports Raspbian, Ubuntu, Kali-Linux, Kodi, win10 IOT, single-touch, free drive

 work as a PC monitor, support win7, win8, win10 system 5 point touch (XP and older version system: single-point touch), ,free drive

CE, RoHS certification

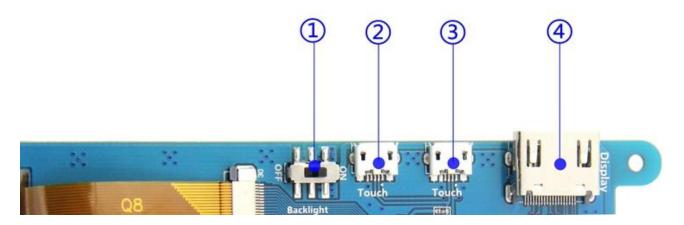
【Product Parameters】

Size: 7.0 (inch)SKU: MPI7001

Resolution: 800 × 480 (dots)
Touch: five-point capacitive touch
Dimensions: 164.9 * 124.27 (mm)

◆ Weight: 380 (g)

【Hardware Description】



- ①Backlight Power switch: Controls the backlight turned on and off to save power.
- ②③USB Touch / power supply connector: For power supply and touch output, the functions of the both are the same, can just use one of them.
- **4** HDMI interface: For connecting motherboard and LCD monitor to HDMI transmission.

[How to use with Raspbian/Ubuntu Mate/Win10 IoT Core System]

- ◆ **Step 1**, Install Raspbian official image
 - 1) Download the latest image from the official download.
 - 2) Install the system according to the official tutorial steps.
- Step 2, Modify the "config.txt"

After the programming of **Step 1** is completed, open the **config.txt** file of Micro SD Card root directory and add the following code at the end of the file, save and eject Micro SD Card safely:

```
max_usb_current=1
hdmi_force_hotplug=1
config_hdmi_boost=7
hdmi_group=2
hdmi_mode=1
hdmi_mode=87
hdmi_drive=1
hdmi_cvt 800 480 60 6 0 0 0
```

◆ Step 3, Insert the Micro SD Card to Raspberry Pi, connect the Raspberry Pi and LCD by HDMI cable; connect USB cable to one of the four USB ports of Raspberry Pi, and connect the other end of the USB cable to the USB port of the LCD; then supply power to Raspberry Pi; after that if the display and touch both are OK, it means drive successfully (please use the full 2A for power supply).

How to rotate display direction:

1. Open the "config.txt" file (the "config.txt" file is located in /boot):

sudo nano /boot/config.txt

2. Add the statement in the "config.txt" file, press Ctrl+X to exit, press Y to save.

```
display_rotate=1 #0: 0; 1: 90; 2: 180; 3: 270
```

3. Restart the **Raspberry Pi** after saving.

```
_____
```

How to rotate Touch direction:

After the display is rotated, the touch needs to be modified.

1. Install libinput

sudo reboot

sudo apt-get install xserver-xorg-input-libinput

2. Create the **xorg.conf. D** directory in /etc/x11 / below (if the directory already exists, this will proceed directly to step 3)

sudo mkdir/etc/X11/xorg.conf.d

3. Copy the file "**40-libinput.conf**" to the directory you just created.

sudo cp /usr/share/X11/xorg.conf.d/40-libinput.conf /etc/X11/xorg.conf.d/

4. Edit "/etc/X11/xorg.conf.d/40-libinput.conf"

sudo nano /etc/X11/xorg.conf.d/40-libinput.conf

Find a part of the touchscreen, add the following statement inside, press Ctrl+X to exit, press

Y to save.

Option "CalibrationMatrix" "0 1 0 -1 0 1 0 0 1"

```
💋 pi@raspberrypi: ~
  GNU nano 2.7.4
                                 File: /etc/X11/xorg.conf.d/40-libinput.conf
Match on all types of devices but tablet devices and joysticks
Section "InputClass"
Identifier "libinput pointer catchall"
            MatchIsPointer "on"
MatchDevicePath "/dev/input/event*"
Driver "libinput"
EndSection
Section "InputClass"
            Identifier "libinput keyboard catchall"
MatchIsKeyboard "on"
MatchDevicePath "/dev/input/event*"
            Driver "libinput"
EndSection
Section "InputClass"
            "InputClass"
Identifier "libinput touchpad catchall"
MatchIsTouchpad "on"
MatchDevicePath "/dev/input/event*"
Driver "libinput"
EndSection
Section "InputClass"

Identifier "libinput touchscreen catchall"

MatchIsTouchscreen "on"
           Option "CalibrationMatrix" "0 1 0 -1 0 1 0 0 1"
MatchDevicePath "/dev/input/event*"
             Driver "libinput"
EndSection
Section "InputClass"
            Inductions "libinput tablet catchall"
MatchIsTablet "on"
MatchDevicePath "/dev/input/event*"
            Driver "libinput"
EndSection
                         Write Out
    Get Help
                                              Where Is
                                                                                        Justify
                                                                                                             Cur Pos
                       R Read File
```

5. Restar your Raspberry Pi

sudo reboot

Complete the above steps for a 90 degree rotation.

Note:

0 degrees of rotation parameters: Option "CalibrationMatrix" "1 0 0 0 1 0 0 0 1"

90 degrees of rotation parameters: Option "CalibrationMatrix" "0 1 0 0-1 1 0 0 1"

180 degrees of rotation parameters: Option "CalibrationMatrix" "-1 0 1 0 -1 1 0 0 1"

270 degrees of rotation parameters: Option "CalibrationMatrix" "0-1 1 1 0 0 0 0 1"

【How to use as PC monitor】

- connect the computer HDMI output signal to the LCD HDMI interface by using the HDMI cable
- ◆ Connect the LCD's USB Touch interface (Either of the two MicroUSB) to the USB port of the device
- ◆ If there are several monitors, please unplug other monitor connectors first, and use LCD as the only monitor for testing.