10.1inch HDMI LCD (E)

From Waveshare Wiki
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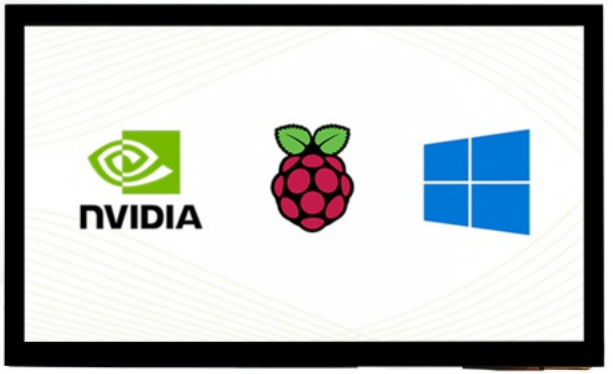
Overview

10.1inch Capacitive Touch Screen LCD (E), 1024×600, HDMI, IPS, 10-Points Touch, Fully Laminated Screen, Supports Raspberry Pi, Jetson Nano, And PC

Features

- Hardware resolution: 1024×600
- Toughened glass panel features 6H hardness and 10-Points capacitive touch
- Fully Laminated for batter touching
- When used with Raspberry Pi, supports Raspberry Pi OS / Ubuntu / Kali and Retropie
- When used as a computer monitor, supports Windows 11/10/8.1/8/7
- Features 3.5mm Headphone jack and 4PIN audio interface for HDMI audio
- Supports common Game console likes XBOX360 and Switch.
- Backlight is controllable for power saving.

10.1inch HDMI LCD (E)



(https://www.waveshare.com/10.1inch-HDMI-LCD-E.htm)

Primary Attribute

Category: OLEDs / LCDs (/wiki/Category:OLEDs_/_LCDs), LCD (/wiki/Category:LCD), Raspberry Pi LCD (/wiki/Category:Raspberry_Pi_LCD)

Brand: Waveshare

User Guides

Windows PC

This product supports Windows 11/10/8.1/8/7 System.:

1) Connect the TOUCH interface of LCD to the USB interface of PC. Waiting for a moment, The touch will be recognized by Windows automatically

2) Connect the HDMI interface of LCD to the HDMI port of PC. After about a few seconds, you can see the LCD display normally

Note 1: If multi-screen are connected to one PC at the same time, you can only control the cursor by this LCD, so please set the LCD as the main screen.

Note 2: Some of PC supply full power to the LCD, in this case, you can connect an external power adapter to the power interface of the LCD.

Raspberry Pi

When using with Raspberry Pi, support Raspberry Pi OS / Ubuntu / Kali and Retropie systems.

Download the Raspbian image from Raspberry Pi website (https://www.raspberrypi.com/software/operating-systems/). Write the image to a TF card and append the following lines to the config.txt file which is located in the root of your TF card:

1) Unzip the archive to get the .img file.

2) Insert the TF card to PC and format the TF card by SDFormatter (https://www.waveshare.com/w/upload/d/d7/Panasonic_SDFormatter.zip) software.

Onboard Interfaces

USB (/wiki/Category:USB_interface)	HDMI (/wiki/Category:HDMI_interface)

Related Products

- 15.6inch HDMI LCD (H) (with case) (/wiki/15.6inch_HDMI_LCD_(H)_(with_case))
- 15.6inch HDMI LCD (H) (/wiki/15.6inch_HDMI_LCD_(H))
- 15.6inch FHD Monitor (/wiki/15.6inch_FHD_Monitor)
- 13.3inch HDMI LCD (H) (with case) V2 (/wiki/13.3inch_HDMI_LCD_(H)_(with_case)_V2)
- 13.3inch HDMI LCD (H) (with case) (/wiki/13.3inch_HDMI_LCD_(H)_(with_case))
- 13.3inch HDMI LCD (H) (/wiki/13.3inch_HDMI_LCD_(H))
- 13.3inch Magic Mirror (/wiki/13.3inch_Magic_Mirror)
- 13.3inch Magic Mirror C4 (/wiki/13.3inch_Magic_Mirror_C4)
- 13.3inch PiPad (/wiki/13.3inch_PiPad)
- 13.3inch PiPad C4 (/wiki/13.3inch_PiPad_C4)
- 12.5inch FHD Monitor (/wiki/12.5inch_FHD_Monitor)

3) Open the Win32DiskImager (https://www.waveshare.com/w/upload/7/76/Win32DiskImager.zip) software and select the image file unzipped and click write to writing it.

4) After writing, modify config.txt file and append the following lines to the config.txt. The file is located in BOOT directory of the TF card.

<source lang="c"> hdmi_group=2 hdmi_mode=87 hdmi_cvt 1024 600 60 6 0 0 0 </source>

5) Connect the Touch interface of the LCD to the USB port of Raspberry Pi.

6) Connect the HDMI interface of the LCD to the HDMI port of the RaspberryPi.

7) Power on the Raspberry Pi. (You can adjust the brightness of the LCD by the OSM menu, whose control buttons are on the side fo the LCD)

Others

Turn off power saving

Sometime you may want to keep the LCD display all the time, in this case, you need to turn off the power saving of Raspberry Pi.

Modify lightdm.conf

```
sudo nano /etc/lightdm/lightdm.conf
```

Find the [SeatDefaults] Option and the line that "xserver-command", change it from

- 11.6inch HDMI LCD (H) (with case) (/wiki/11.6inch_HDMI_LCD_(H)_(with_case))
- 11.6inch HDMI LCD (H) (/wiki/11.6inch_HDMI_LCD_(H))
- 11.9inch HDMI LCD (/wiki/11.9inch_HDMI_LCD)
- 10.5inch HDMI AMOLED (/wiki/10.5inch_HDMI_AMOLED)
- 10.1inch HDMI LCD (/wiki/10.1inch_HDMI_LCD)
- 10.1inch HDMI LCD (B) (with case) (/wiki/10.1inch_HDMI_LCD_(B)_(with_case))
- 10.1inch HDMI LCD (E)
- 10.1inch HDMI LCD (G) (with case) (/wiki/10.1inch_HDMI_LCD_(G)_(with_case))
- 10.1inch HDMI LCD (H) (with case) (/wiki/10.1inch_HDMI_LCD_(H)_(with_case))
- 10.1HP-CAPQLED (/wiki/10.1HP-CAPQLED)
- 9inch 2560x1600 Monitor (/wiki/9inch_2560x1600_Monitor)
- 9HP-CAPQLED (/wiki/9HP-CAPQLED)
- 8.8inch Side Monitor (/wiki/8.8inch_Side_Monitor)
- 8inch DSI LCD (/wiki/8inch_DSI_LCD)
- 8inch DSI LCD (with cam) (/wiki/8inch_DSI_LCD_(with_cam))

```
#xserver-command=X
```

to

```
xserver-command=X -s 0 -dpms
```

- -s # set screen saver not enabled
- dpms # Turn off power saving management

Reboot the system

```
sudo reboot
```

Turn on/ off display

You can turn on/off display by the follow commands

```
vcgencmd display_power 0
vcgencmd display_power 1
```

Button function description

- **Power**: Backlight power button. Switch the backlight power on and off. If you don't need to use the display for a long time, you can use this button to turn off the backlight and reduce power consumption
- **Menu**: Menu button. Press this key to open the OSD menu. When using the menu, it can also be used as a confirmation key.
- **Up/Left**: Direction buttons
- **Down/Right**: Direction buttons

- 7.9inch HDMI LCD (/wiki/7.9inch_HDMI_LCD)
- 7inch FHD Monitor (/wiki/7inch_FHD_Monitor)
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- 7inch DSI LCD (with cam) (/wiki/7inch_DSI_LCD_(with_cam))
- 7inch DSI LCD (with case A) (/wiki/7inch_DSI_LCD)
- 7inch DSI LCD (C) (/wiki/7inch_DSI_LCD_(C))
- 6inch HDMI AMOLED (/wiki/6inch_HDMI_AMOLED)
- 5inch HDMI LCD (H) (/wiki/5inch_HDMI_LCD_(H))
- 5inch HDMI LCD (H) V4 (/wiki/5inch_HDMI_LCD_(H)_V4)

- **Exit**: Exit key

Resources

Software

- Panasonic_SDFormatter (https://www.waveshare.com/w/upload/d/d7/Panasonic_SDFormatter.zip)
- Win32DiskImager (https://www.waveshare.com/w/upload/7/76/Win32DiskImager.zip)
- putty (https://www.waveshare.com/w/upload/5/56/Putty.zip)

3D Drawing

- 10.1inch HDMI LCD (E) 3D 3D Drawing (/wiki/File:10.1inch_HDMI_LCD_E_3D.zip)

Question:
What is the working temperature of 10.1inch HDMI LCD（E）?

[Collapse]

Answer:

0~70°C

Question:
What is the working current for the 10.1inch HDMI LCD (E)?

- 5inch HDMI LCD (G) (/wiki/5inch_HDMI_LCD_(G))
- 5inch HDMI LCD (B) (/wiki/5inch_HDMI_LCD_(B))
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- 4inch HDMI LCD (C) (/wiki/4inch_HDMI_LCD_(C))
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- 4inch HDMI LCD (/wiki/4inch_HDMI_LCD)

Answer: [Collapse]

Using a 5V power supply, the working current of turning on the backlight is about 900mA.

Question:

How to remove the colored squares of the GPU self-check when the Raspberry Pi is powered on?

Answer: [Collapse]

Add in
/boot/config.txt

```
disable_splash=1
```

Question:

How to replace the Raspberry Pi boot logo image?

Answer: [Collapse]

Replace the custom image with the image in this directory
/usr/share/plymouth/themes/pix/splash.png

If you require technical support, please go to the

- 4inch RPi LCD (C) (/wiki/4inch_RPi_LCD_(C))
- 4inch RPi LCD (A) (/wiki/4inch_RPi_LCD_(A))
- 3.5inch DPI LCD (/wiki/3.5inch_DPI_LCD)
- 3.5inch HDMI LCD (/wiki/3.5inch_HDMI_LCD)
- 3.5inch RPi LCD (C) (/wiki/3.5inch_RPi_LCD_(C))
- 3.5inch RPi LCD (B) (/wiki/3.5inch_RPi_LCD_(B))
- 3.5inch RPi LCD (A) (/wiki/3.5inch_RPi_LCD_(A))
- 3.2inch HDMI LCD (H) (/wiki/3.2inch_HDMI_LCD_(H))
- 3.2inch RPi LCD (B) (/wiki/3.2inch_RPi_LCD_(B))
- 2.8inch HDMI LCD (H) (/wiki/2.8inch_HDMI_LCD_(H))
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- 2.8inch RPi LCD (A) (/wiki/2.8inch_RPi_LCD_(A))
- 2.23inch OLED HAT (/wiki/2.23inch_OLED_HAT)
- 1.3inch OLED HAT (/wiki/1.3inch_OLED_HAT)
- 1.3inch LCD HAT (/wiki/1.3inch_LCD_HAT)
- 1.44inch LCD HAT (/wiki/1.44inch_LCD_HAT)
- 1.8inch LCD Module (/wiki/1.8inch_LCD_Module)
- EINK-DISP-103 (/wiki/EINK-DISP-103)
- LCD1602 RGB Module (/wiki/LCD1602_RGB_Module)

Support (https://support.waveshare.com/hc/en-us/requests/new) page and open a tickets.

- Pico-Clock-Green (/wiki/Pico-Clock-Green)
- Pico-RGB-Matrix-P3-64x32 (/wiki/Pico-RGB-Matrix-P3-64x32)
- RGB-Matrix-P3-64x32 (/wiki/RGB-Matrix-P3-64x32)