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10.1DP-CAPLCD

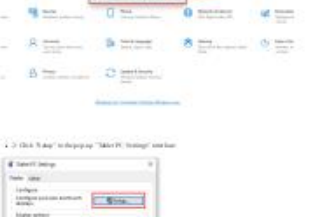
Overview

Introduction

10.1DP-CAPLCD is a universal capacitive touch screen with HD resolution and is compatible with latest standard HDMI devices.
It features toughened glass capacitive touch panel, that results in a smooth multi-touch effect while being thin and lightweight.
The headboard comes with 8 ring sizes, which enables easy and convenient to turn as well as any project need to control only.

Features

- 10.1-inch IPS screen with a hardware resolution of 1280 x 800.
- 10-point capacitive touch, with interrupted plug-and-play function, up to 4H.
- Using optical bonding touch screen design, the display effect is better.
- Supports Raspberry Pi OS / Ubuntu / Kali and Retropie video card with Raspberry Pi.
- Supports Windows 10 / 8.1 / 8 / 7 video card and computer monitor.
- Support multi-language OSD menu (can be used for power control, adjusting brightness, contrast, etc).
- Support HDMI audio output, onboard 3.5mm headphone jack, and 4PIN speaker jack.



Parameters

Item	Description	Unit
Model	10.1DP-CAPLCD	/
Size	10.1	Inch
Viewing angle	178	Deg
Resolution	1280 x 800	Pixels
Touch panel dimensions	229.80 (H) × 147.00(V) × 2 (D)	mm
Display panel dimensions	220.8 (H) × 143.4 (V) × 3.60 (D)	mm
Display area	135.36 (H) × 216.58 (V)	mm
Pixel pitch	0.1175 (H) × 0.1808 (V)	mm
Color gamut	56%	NTSC
Maximum brightness	450	cd/m²
Contrast	800:1	/
Backlight adjustment	OSD menu adjustment	/
Refresh rate	60	Hz
DSI port	Standard HDMI port	/
Power port	5V Type-C	/
Power consumption	4	W at
Weight	320	g

Electrical Specifications

Parameter	Minimum Value	Standard	Maximum Value	Unit	Note
Input Voltage	4.75	5.00	5.25	V	Note 1
Input Current	750	800	1500	mA	Note 2
Operating Temperature	0	25	60	°C	Note 4
Storage Temperature	-10	25	70	°C	Note 4

• Note1: Input voltage exceeding the maximum value or improper operation may cause permanent damage to the device.
• Note2: The input current must be ≥750mA, otherwise it will cause startup failure or abnormal display, and it may cause permanent damage to the device if it is in an abnormal state for a long time.
• Note3: Please do not store the display in a high temperature and high-humidity environment for a long time. The display must work within the limited value range, otherwise, the display may be damaged.

EDID Sequence Parameter

If the system of the main control board can automatically identify the EDID for the plug, then it's not need to edit (only can choose) sequence parameters.
Otherwise, you can refer to the following EDID settings:

Pixel Clock	H Addressable	H Blanking	V Addressable	V Blanking	H Front Porch	H Sync Width	V Front Porch	V Sync Width	H Image Size	V Image Size	H Border	V Border
77.84	1280	232	800	16	48	32	16	6	216	402	0	0

Interface Introduction



1 Backlight ON/OFF 2 Audio Jack 3 HDMI Port 4 Power Supply
5 Touch Port 6 Speaker Header 7 Button Board Header

User Guide

Working With Raspberry Pi

Hardware Connection

1. Connect the Touch port to the USB port of the Raspberry Pi.
2. Connect the HDMI port to the HDMI port of the Raspberry Pi.



Software Setting

Support: Raspberry Pi OS/Ubuntu/Kali and Retropie system.
After LCD series with the Raspberry Pi systems, you must set the resolution manually. Otherwise, the resolution will be wrong and it will affect you or experience.

1. Please download the latest image in the User Guide(Raspberry Pi system).
2. Download the compressed file on the PC and unzip it to get the ".img" file.
3. Connect the TF card to the PC and use SD Card assistant to format the TF card.
4. Open Win32DiskImager.exe, select the system image you need in the drop, and click "write" to program the system image.
5. After programming, you can open the "config.txt" file in the TF card root directory. Add the following code at the end of "config.txt", save it and then safely remove the TF card.

```
[pi4]
dtoverlay=vc4-kms-dsi-ili9881-7inch
```

6. Insert the TF card into the Raspberry Pi, power on the Raspberry Pi and wait for a few seconds for a normal display.

Linux Software Brightness Adjustment

Using the DDCCI program, how to use/update? Refer to Linux DDC/CI

```
pi@raspi:~ $ sudo apt-get install ddcutil -y
pi@raspi:~ $ ddcutil detect
Invalid display
   I2C bus:  /dev/i2c-1
   DRM connector:  card1-DSI-1
   EDID synopsis:
      Mfg id:
      Model:
      Serial number:
      Binary serial number:  (no serial number recorded)
      Manufacture year:  2020
   DDC communication failed
   This is an eDP laptop display. Laptop displays do not support DDC/CI.
```

Working With PC

Supported Windows 10 / 8 / 8.1 / 7

Plug & Play

1. Connect the Touch port of the LCD to the USB port of the PC, and Windows will automatically identify the touch function.
2. Connect the HDMI port of the LCD to the HDMI port of the PC, and Windows will automatically identify the display function.

• Note:
• Some PCs do not support the plug and play function of the HDMI device, but it can install normally after restart or update system.
• If the power supply of the USB port is insufficient, the LCD will flicker. At the moment, an external 5V 1A power adapter to the Power interface of the LCD, it can be used normally.

Windows Touch Calibration

Take Windows 10 as an example:

1. Enter the Windows settings of the system, input tablet calibration and click "Calibrate the screen for pen or touch input" (as shown in the picture below):

2. Click "Setup" in the pop-up "Tablet PC Settings" interface:

3. Then a floating text prompt will appear on the screen. Please tap the text 4 times with your finger, and then computer will recognize it as an touch screen.

[Note] If the touch screen is blank, press the "Enter" key, and then a prompt will appear in the touch screen. (The screen will be displayed as a prompt will have other, and it is correct)

Windows Software Brightness Adjustment

1. Download and run all DDCCI applications, such as the open source Twinkle Tray.
2. Open the relevant shortcut on it, it will automatically identify the brightness and adjust the monitor. Set slight brightness by clicking the scroll bar.

3. You can also enter the DDCCI application setting, to enable monitor adjustment, volume adjustment, and other functions.

Outline Dimensions

Resources

3D Drawings

• 10.1DP-CAPLCD 3D drawing

FAQ

Question: When operate it, connect the USB, the operation results of 10.1DP-CAPLCD and what is the operation interconnection?

Answer:
APUSP10.1D operation interaction, the log is the "+ ... +" support up to 2 to 2 10 point interaction.

Support

Technical Support

If you need technical support or have any feedback to us, please click the Submit Now button to submit a ticket, our support team will check and solve your issue as soon as possible. Please be patient as our sales time difference may lead to delay in your email reply. Working Time: 9 AM - 10 AM (GMT+8, Monday to Friday)

Submit Now