7inch DSI Display A

LCD Display Module Product Manual



Version	Release Record	Date
V1.0	First release	2026-10-19

To ensure safe use of this product, please read this manual carefully

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1. Overview

1.1. Features

IPS full-viewing-angle display

Wide viewing angle

True-to-life colors

Excellent dynamic image quality

Energy-saving and environmentally friendly

7.0-inch standard display

Resolution 800×480

Touch control

With capacitive touch screen, supports 5-point touch control, no driver download required

Compatible with Raspberry Pi (Raspberry Pi 4B, Pi 5)

Supports Raspbian/Ubuntu/Kali systems, drivers and images provided, wiki updated online

Plugs directly into the Raspberry Pi, no extra power supply for the display required

1.2. Product Images





2. Specifications

2.1. LCD Panel Specifications

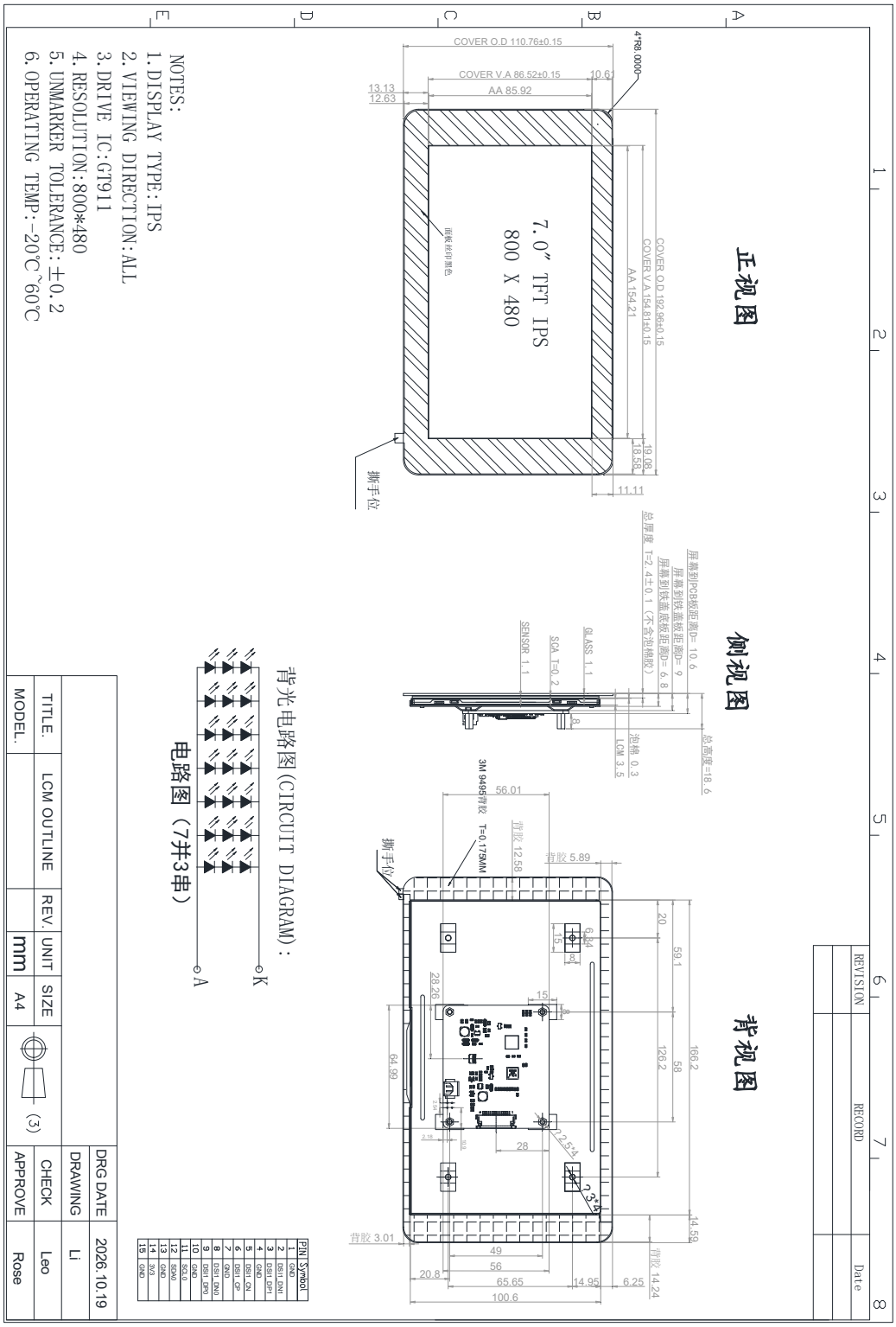
Item	Parameter	Unit
Screen Size	7.0	inch
Screen Type	IPS	-
Resolution	800*480	pixels
Active Display Area	154.21 x 85.92	mm
Pixel Size	0.1461 x 0.1462	mm
Viewing Angle	170	deg
Surface Brightness (Typical)	400	cd/m2
Backlight Type	LED	-
Operating Temperature	-20~60	℃
Storage Temperature	-30~70	℃
Module Size	192.96x110.76x18.6	mm
Touch Screen Type	Capacitive touch screen	-

2.2. Other Specifications

Item	Parameter	Unit
SKU	DSI7A01	-
Supply Voltage	5.0	V
Total Power (Max.)	2.2	W
Weight (with packaging)		g

3. Dimensions

3.1. Dimensions



4. Connection and Use

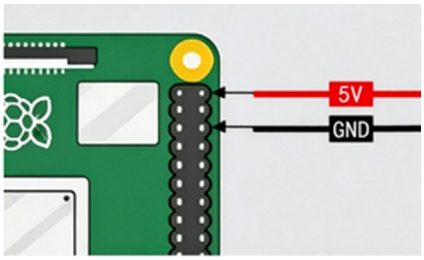
4.1. Connecting to Raspberry Pi

Raspberry Pi 4B:

As shown in the figure, first connect the MIPI flexible flat cable and the power cable, then place the Raspberry Pi and secure it with screws, and finally connect the flexible flat cable and power cable to the Raspberry Pi.



Connect the flexible flat cable and power cable





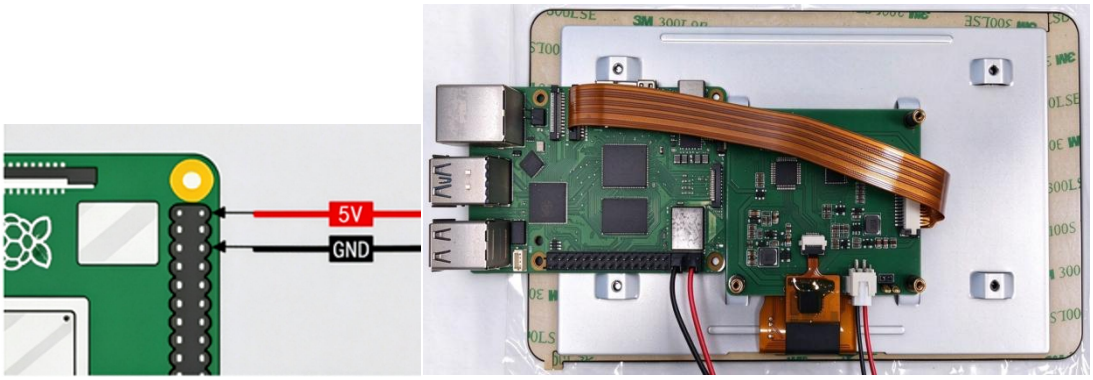
Connect the flexible flat cable and power cable to the Raspberry Pi

Raspberry Pi 5:

As shown in the figure, first connect the MIPI flexible flat cable and the power cable, then place the Raspberry Pi and secure it with screws, and finally connect the flexible flat cable and power cable to the Raspberry Pi.



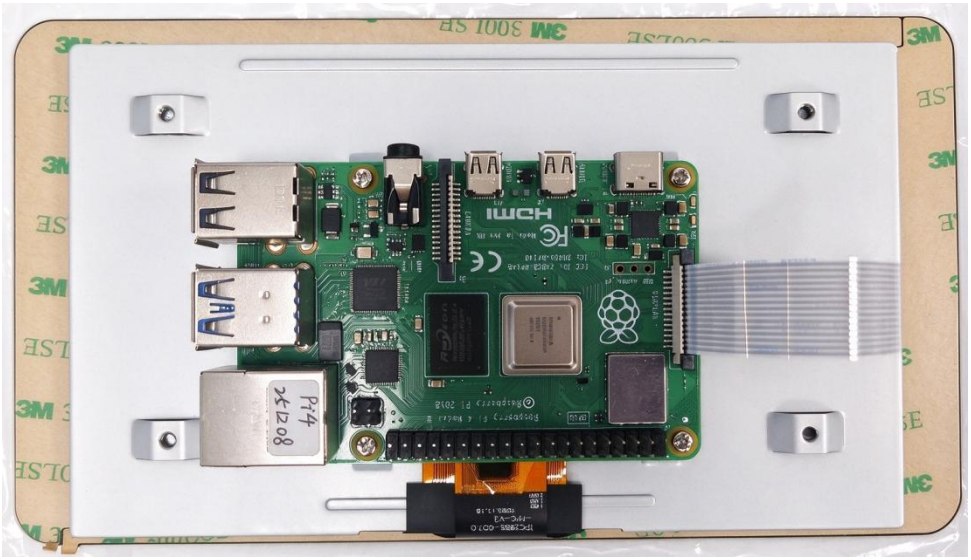
Connect the flexible flat cable and power cable



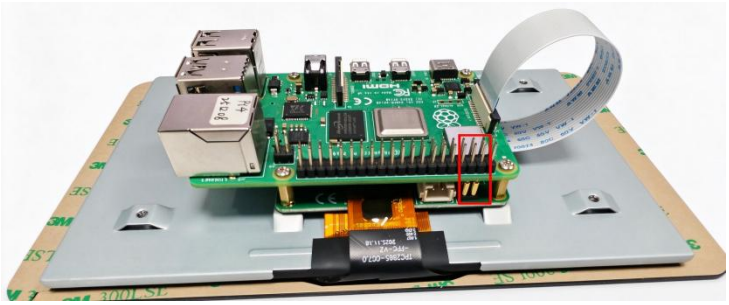
Connect the flexible flat cable and power cable to the Raspberry Pi

Method 2:

First connect the interface of the Raspberry Pi and the circuit board



Then align the Raspberry Pi with the copper pillar holes and screw it onto the circuit board; make sure the pin header and the contact pins are in the same position



4.2. Running the Software System

4.2.1. Download the Latest Image

1) Download the latest official Raspbian image

   Download URL: https://www.raspberrypi.org/downloads/raspbian/

   Username: **pi** Password: **raspberry**

2) Download the latest official Ubuntu Mate image

   Download URL: https://ubuntu-mate.org/download/

   The username and password can be set by yourself after boot.

3) Download the latest official Kali system

   Download URL: https://www.offensive-security.com/kali-linux-arm-images/

   Username: kali (old versions: **root**) Password: kali (old versions: **toor**)

4) Download the latest official RetroPie system

   Download URL: https://retropie.org.uk/download/

   Username: **pi** Password: **raspberry**

4.2.2. Writing the Official Image

1) Download and install the tool software (if already installed, this step can be skipped)

SD card formatting software SDFormatter download URL:

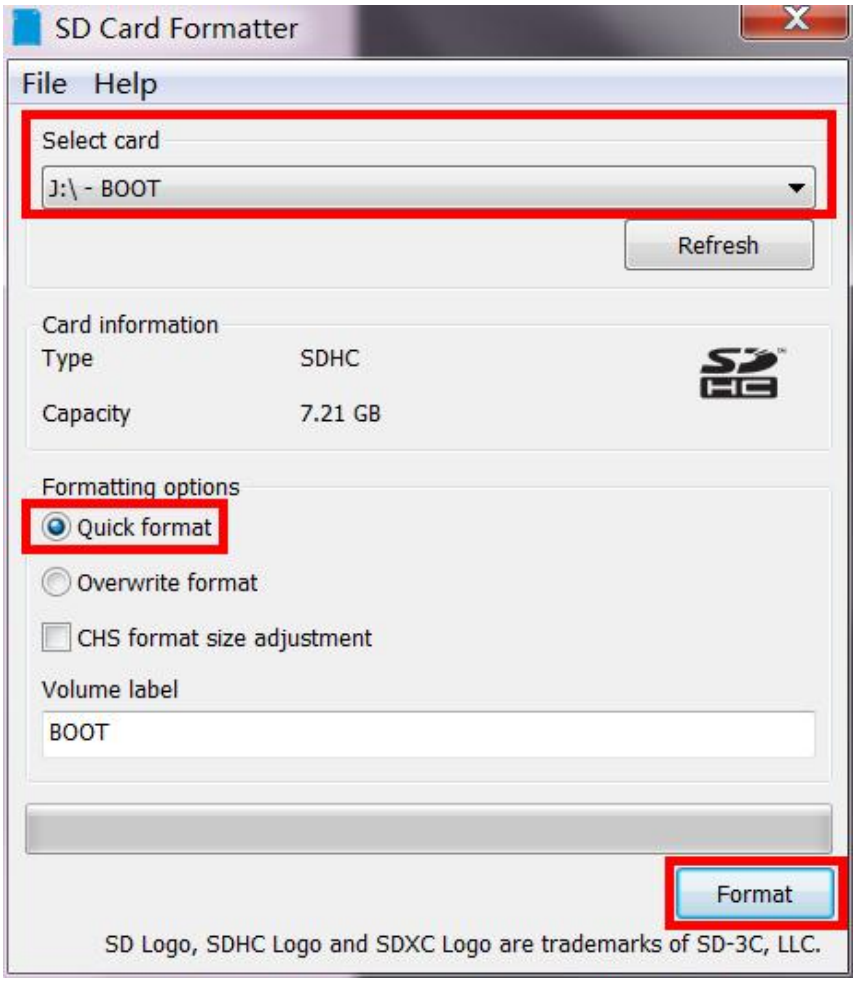
https://www.sdcard.org/downloads/formatter_4/

Image writing software Win32DiskImager download URL:

https://sourceforge.net/projects/win32diskimager/

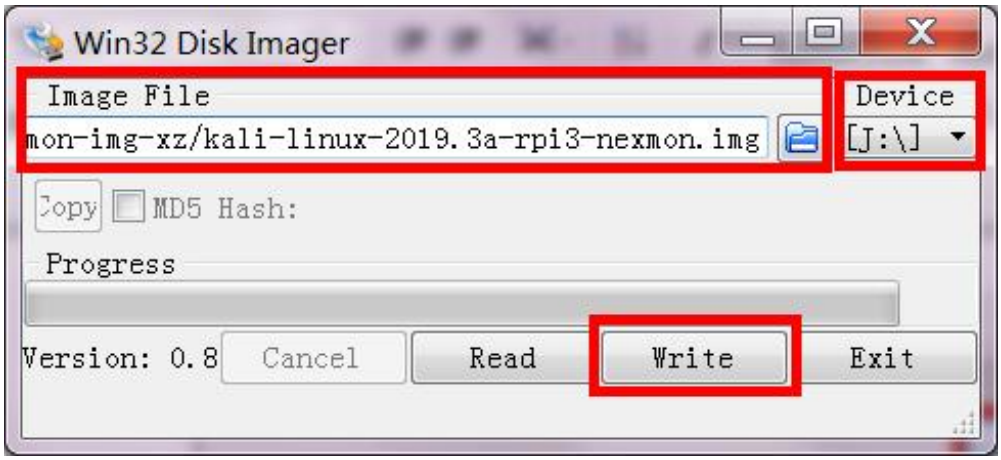
2) Formatting the SD Card

Insert the SD card into the card reader -> insert the card reader into the computer -> open the SDFormatter software -> select the SD card -> select **Quick format** (generally choose **quick format**; other options can be chosen as needed) -> click the **Format** button -> select "**Yes**" -> click **OK** after formatting is complete.



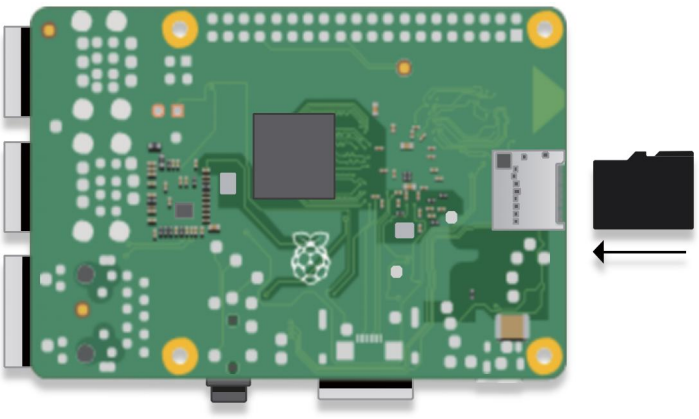
3) Writing the Image

Open the Win32DiskImager software -> select the image file to be written (xxx.img) -> select the SD card -> click "**write**" button -> select "**Yes**" -> wait for the writing to complete (the whole process takes about 10-odd minutes)



4.2.3. Inserting the SD Card

After all the above steps are completed, eject the SD card from the computer, then insert it into the SD card slot on the back of the Raspberry Pi.



4.2.4. Running the System

After the Raspberry Pi and the display module are connected, power on

the Raspberry Pi; you will see an image output on the display, and touch works normally.

5. Safety Precautions

5.1. Using the Power Supply Safely

- Do not use damaged power cords, plugs, or loose power outlets
- Do not touch the power plug with wet hands
- Do not let any object press on or wrap around the power cord
- Unplug the power cord when it will be left unattended for a long time
- Insert the power plug fully to prevent it from coming loose

5.2. Placing the Product Safely

- Do not place the product near heat sources
- Do not place the product face down
- Do not place the product on an unstable or vibrating surface (an unsteady shelf, a slope, etc.)
- Do not place the display in a humid place

5.3. Cleaning the Product

Please clean the product according to the following steps

- 1) Turn off the power to the product and the computer
- 2) Disconnect the power cord of the product

— Please hold the power cord plug and unplug the power cord; do not pull it out with wet hands, otherwise electric shock may result

- 3) Wipe the display with a clean, soft, dry cloth

  — Do not wipe the display with cleaners containing alcohol, solvents, or surfactants

  — Do not spray water or cleaner directly onto the product

- 4) Dip a soft, dry cloth in water and wring it out thoroughly, then clean the exterior of the product

- 5) After cleaning is complete, reconnect the power cord of the product

- 6) Turn on the power to the product and the computer