7inch IPS Display

7-inch IPS LCD Display Specification Sheet

Version	Release Record	Date
V1.0	First release	2026-11-7

Please read this manual carefully to ensure safe operation of this product.

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1. Overview

1.1. Feature Description

- IPS wide-view display
- Wide viewing angle
- True color reproduction
- Excellent dynamic image quality
- Energy saving and environmental protection
- High-definition image quality
- High-definition resolution of 720×1280 dots
- Compatible with mainstream development boards such as Raspberry Pi
- Supports mainstream systems such as Raspberry Pi OS when used with Raspberry Pi, with multi-point capacitive touch

2. Parameter

2.1. LCD Panel Parameters

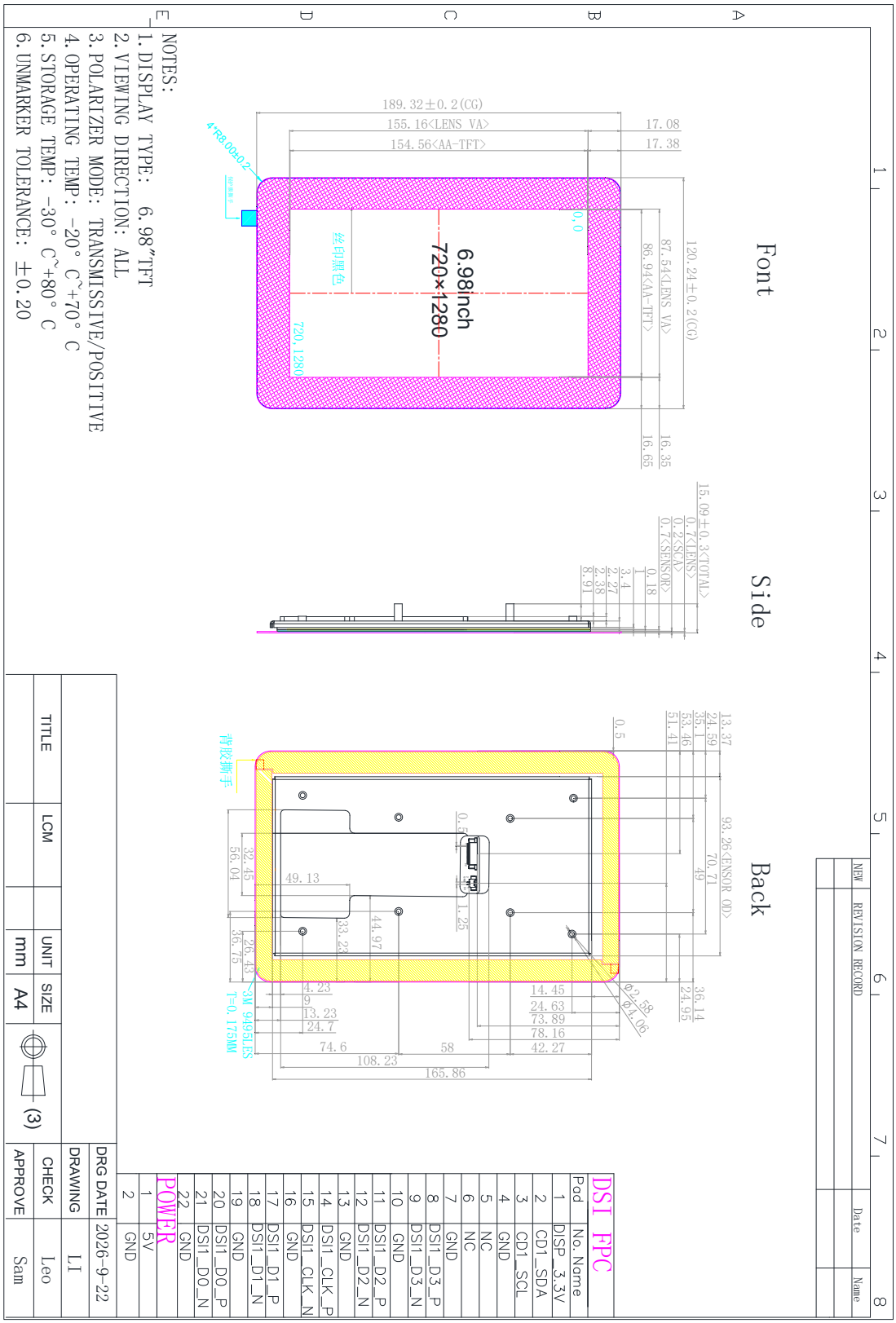
Item	Parameter	Unit
Screen Size	7	inch
Screen Type	IPS	-
Resolution	720*1280	pixels
Active Display Area	154.56*86.94	mm
Viewing Angle	170	deg
Typical surface brightness value	400	cd/m2
Backlight Type	LED(3*7)	-
Operating Temperature	-20~70	℃
Storage Temperature	-30~80	℃
Module dimensions	189.32*120.24*14.89	mm
Touch Panel Type	Capacitive Touch Panel	-
Surface Hardness	6H	-

2.2. Other Parameters

Item	Parameter	Unit
SKU	DSI720B	-
Total Power (Max.)		W
Weight (including package)		g

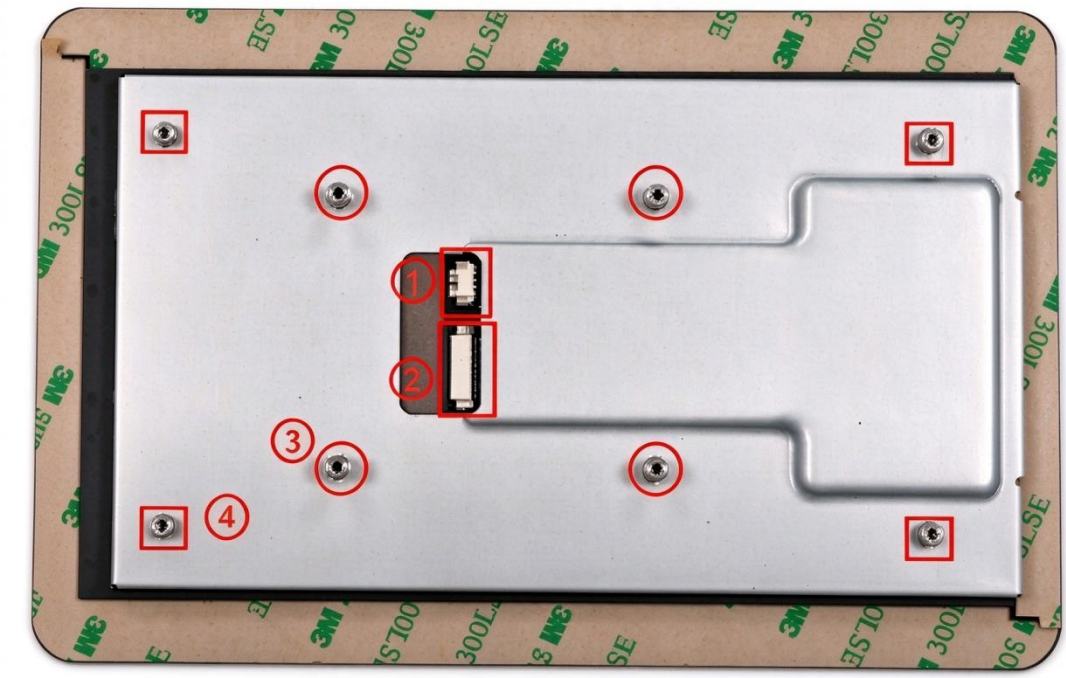
3. Dimensional Drawing

3.1. Dimensional Drawing



4. Interfaces and buttons

4.1. Interface Description



接口	Function Description
① POWER	Use a 2P 1.25 mm spacing cable and connect it to a Raspberry Pi device for power supply.
② DSI MIPI	For high-definition video input; use a 22P flexible ribbon cable to connect to the Raspberry Pi.
③ 4× Copper Standoffs	Secure the Raspberry Pi with an M2.5 screw
④ 4× Copper Standoffs	For external fixation

The power connection interface uses a 2P connector with 1.25mm pitch, and the MIPI interface uses a 22P horizontal FPC connector with 0.5mm pitch. The pin definitions are as follows:

5V Power 2P Horizontal Connector Pin Definition:

No.	Module Pin	Function Description
1	5V	5V Power Supply
2	GND	Ground

MIPI DSI FPC Socket Pin out Definition:

No.	Module Pin	Function Description
1	DISP_3.3V	3.3V Power Supply
2	CD1_SDA	Touch I2C - SDA
3	CD1_SCL	Touch I2C - SCL
4	GND	Ground
5	NC	No Connection
6	NC	No Connection
7	GND	Ground
8	DSI1_D3_P	Data Lane 3 Positive Signal (Differential Pair)
9	DSI1_D3_N	Data Lane 3 Negative Signal (Differential Pair)
10	GND	Ground
11	DSI1_D2_P	Data Lane 2 Positive Signal (Differential Pair)
12	DSI1_D2_N	Data Lane 2 Negative Signal (Differential Pair)
13	GND	Ground
14	DSI1_CLK_P	Clock Lane 0 Positive Signal (Differential Pair)
15	DSI1_CLK_N	Clock Lane 0 Negative Signal (Differential Pair)
16	GND	Ground
17	DSI1_D1_P	Data Lane 1 Positive Signal (Differential Pair)
18	DSI1_D1_N	Data Lane 1 Negative Signal (Differential Pair)
19	GND	Ground
20	DSI1_D0_P	Data Lane 0 Positive Signal (Differential Pair)
21	DSI1_D0_N	Data Lane 0 Negative Signal (Differential Pair)
22	GND	Ground