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VSDISPLAY VS104T-004A

VSDISPLAY 10.4" 1024x768 LCD Screen with VS-TY2660HU-823 USB Automatic Controller Board Instruction Manual

Model: VS104T-004A with VS-TY2660HU-823 Controller Board

1. Introduction

This manual provides detailed instructions for the setup, operation, and maintenance of your VSDISPLAY 10.4-inch 1024x768 LCD Screen kit, which includes the VS-TY2660HU-823 USB Automatic Controller Board. This kit is designed for various applications requiring a compact, high-resolution display with versatile input options and automatic brightness adjustment.

2. Package Contents

Please verify that all items listed below are included in your package:

- 1 × LCD Controller Board (VS-TY2660HU-823) for 30Pin LVDS
- 1 × 10.4-inch VS104T-004A 1024x768 LCD Screen
- 1 × Converter Board
- 1 × LVDS Cable
- 1 × Keyboard with Cable

Note: A power adapter is not included in the packing list. A 12Vdc, 2A or greater power adapter is required for operation.



Figure 2.1: Included components in the shipping list.

3. Specifications

Feature	Specification
Brand	VSDISPLAY
Model Number	VS104T-004A
Screen Size	10.4 inches
Resolution	1024 x 768 (XGA)
Display Mode	IPS Pro, Normally Black, Transmissive
Outline Size (H×V×D)	227.00 × 175.80 × 7 mm

Feature	Specification
Display Area (H×V)	210.43 × 157.824 mm
Brightness	600 cd/m² (Typ.)
Contrast Ratio	1000:1 (Typ.)
Viewing Angle	80/80/80/80 (Typ.) (Left/Right/Up/Down)
Signal Interface	LVDS (1 ch, 8-bit), 30 pins Connector
Backlight	WLED
Input Voltage (LCD Panel)	3.3V (Typ.)
Controller Board Input Power	12Vdc, >2A
Controller Board Standby Power	<1W
Video Input	USB 1.4 (Video Playback, Picture Playback, Text Playback)
Audio Output	Speaker Support 8ohm 2W / 4ohm 2W
OSD Languages	English, French, German, Spanish, Italian, etc.
Controller Board Size	90mm x 51mm x 14mm

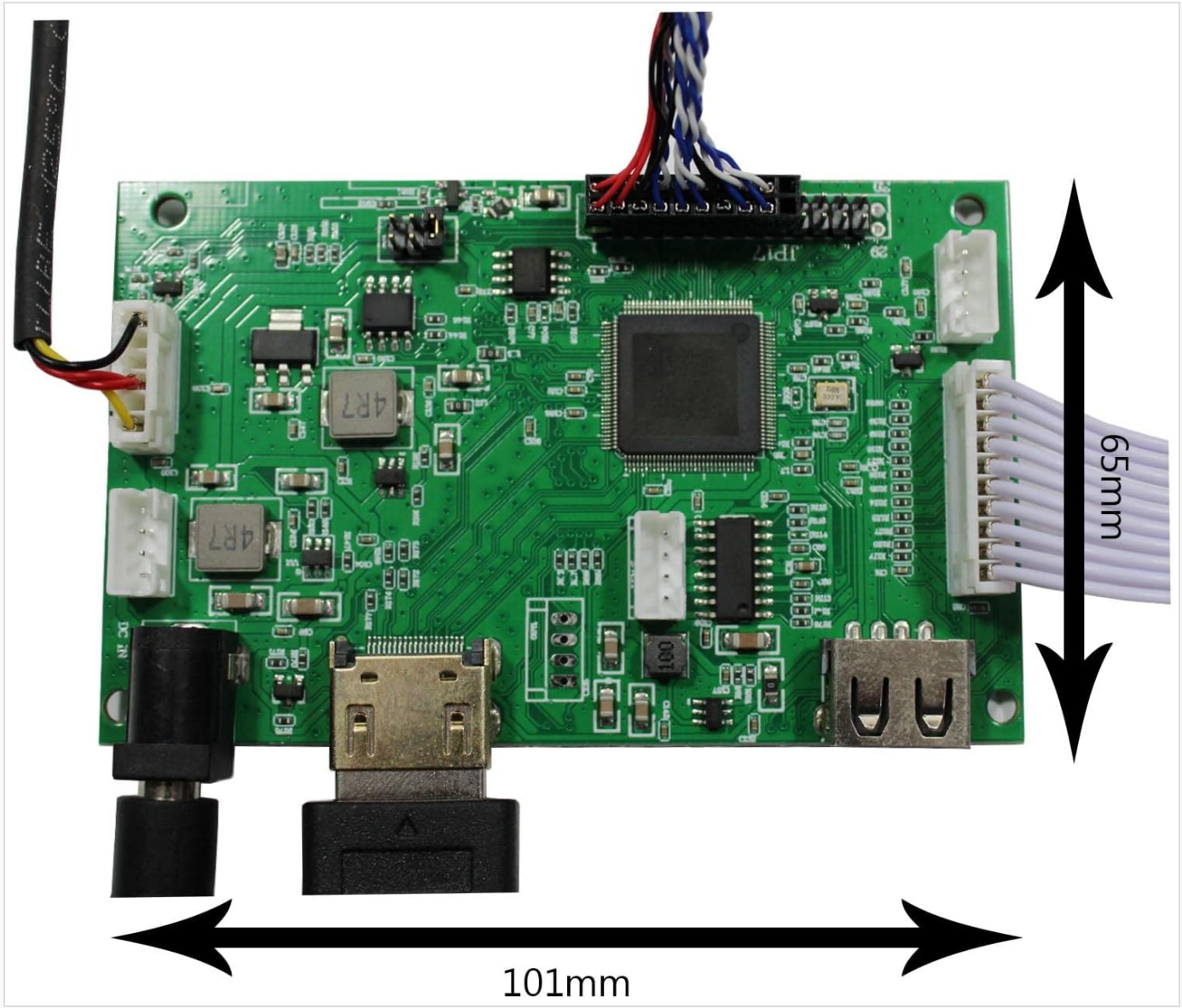


Figure 3.1: Controller Board Dimensions.

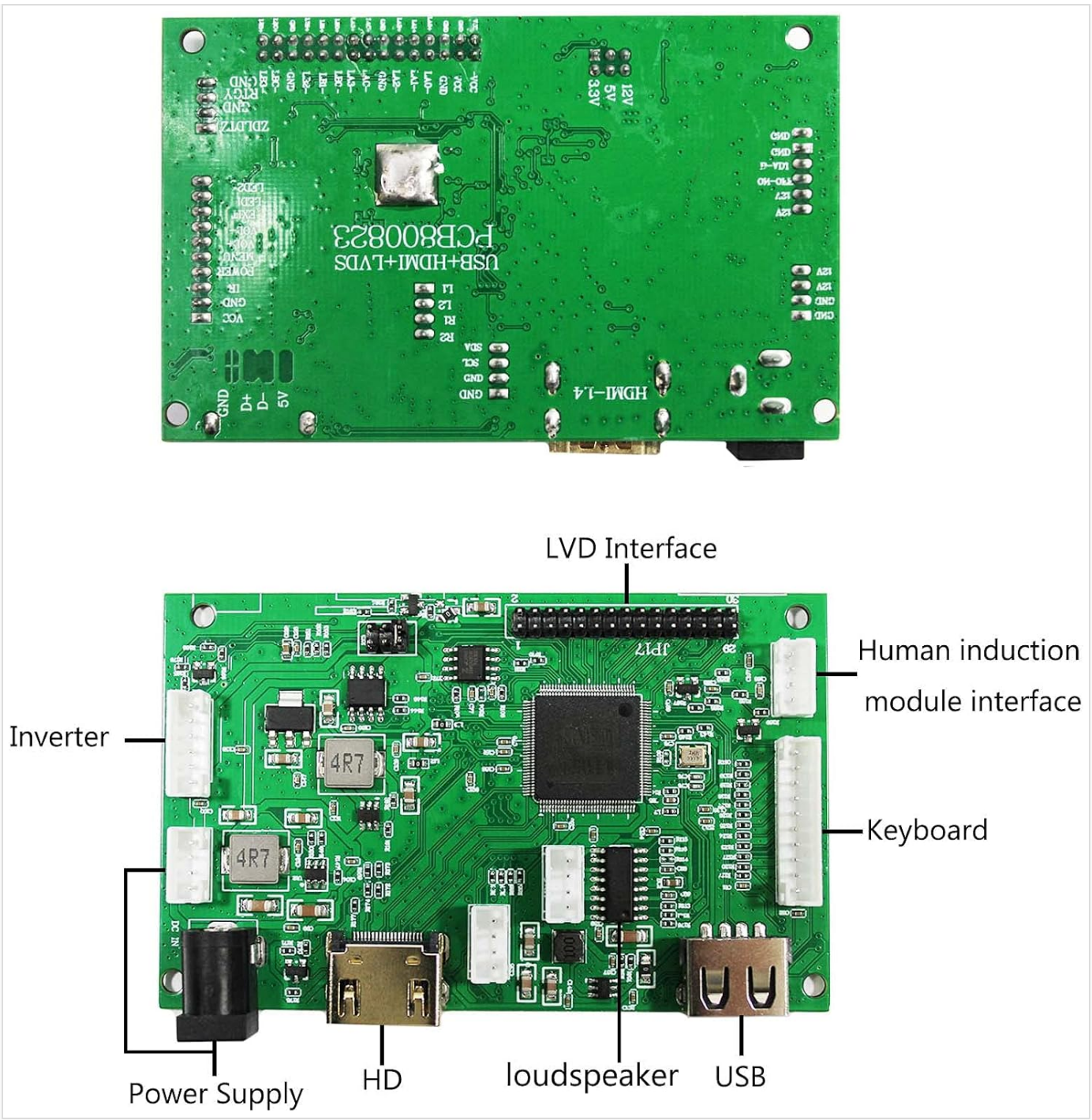


Figure 3.2: VSDISPLAY Controller Board Layout with labeled ports.

4. Setup Instructions

Follow these steps to correctly assemble and connect your LCD screen kit:

1. **Connect the LVDS Cable:** Carefully connect the 30-pin LVDS cable to the LVDS interface on the LCD panel and the corresponding port on the controller board. Ensure the cable is oriented correctly and securely seated.
2. **Connect the Converter Board:** Attach the converter board to the appropriate connector on the LCD panel, then connect it to the controller board using the provided cable.
3. **Connect the Keyboard:** Plug the keyboard cable into the designated port on the controller board. This keyboard is used for navigating the On-Screen Display (OSD) menu.
4. **Connect Power:** Connect a 12Vdc, 2A or greater power adapter (not included) to the DC IN port on the controller board.

5. **Optional Connections:**
    - **USB Devices:** For media playback or firmware upgrades, insert a USB drive into the USB port.
    - **Speakers:** If audio output is desired, connect compatible speakers (8ohm 2W or 4ohm 2W) to the loudspeaker port.
    - **Human Induction Module:** For automatic startup/shutdown based on human presence, connect an external human body induction signal template to the dedicated interface.

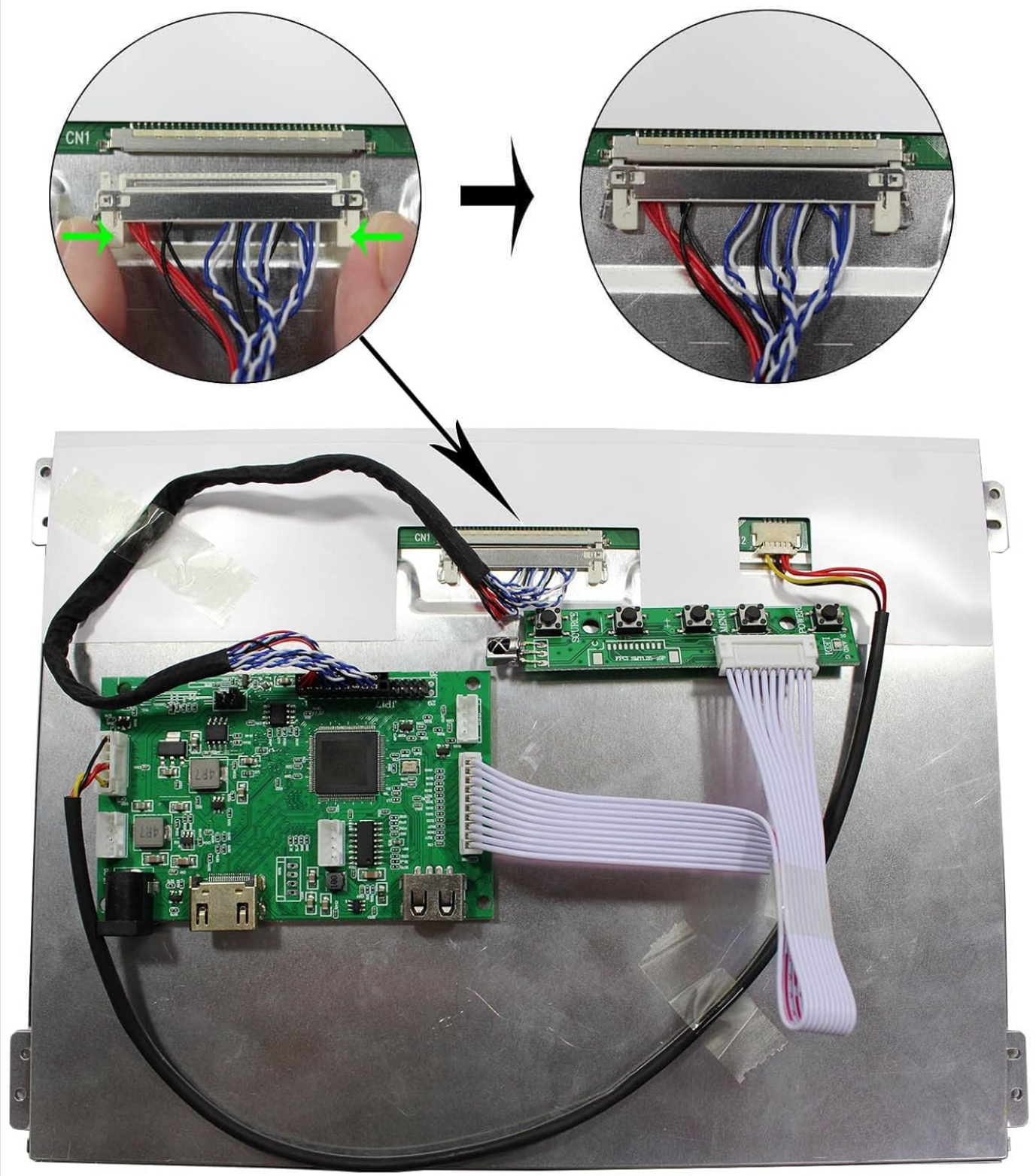


Figure 4.1: Connecting the LVDS cable to the LCD panel.

5. Operating Instructions

Once the kit is assembled and powered on, you can begin operation:

5.1 Power On/Off and Standby

- The board will enter standby mode (<1W power consumption) when no signal input is detected.
- The display will automatically power on when a valid signal is detected.
- If a human body induction module is connected, the display can automatically start and shut down based on human presence.

5.2 OSD Menu Navigation

Use the provided keyboard to navigate the On-Screen Display (OSD) menu. The OSD allows you to adjust various display settings:

- **Brightness:** Adjust the display's luminance.
- **Contrast:** Modify the difference between light and dark areas.
- **Auto:** Automatically adjusts display settings for optimal viewing.
- **Language:** Select your preferred OSD language (English, French, German, Spanish, Italian, etc.).

5.3 Automatic Brightness Adjustment

The controller board features photoresistors input to support automatic brightness adjustment. This function allows the display brightness to adapt to ambient light conditions.

5.4 USB Media Playback

The USB 1.4 port supports playback of video, picture, and text files. Simply insert a USB drive containing your media files into the USB port on the controller board. The system will automatically detect and allow you to browse and play content.

5.5 Firmware Upgrade

To upgrade the firmware:

1. Place the upgrade file in the root directory of a USB disk.
2. Insert the USB disk into the USB port of the driver board.
3. Apply power to the board. The upgrade process will begin automatically.
4. The board will automatically restart once the upgrade is completed.

6. Maintenance

To ensure the longevity and optimal performance of your VSDISPLAY LCD screen kit, follow these maintenance guidelines:

- **Cleaning:** Use a soft, lint-free cloth to gently wipe the screen surface. For stubborn marks, slightly dampen the cloth with water or a screen-safe cleaning solution. Avoid harsh chemicals or abrasive materials.
- **Dust Control:** Keep the controller board and connections free from dust accumulation. Use compressed air or a soft brush to clean vents and ports periodically.
- **Environmental Conditions:** Operate the device within recommended temperature and humidity ranges. Avoid exposure to direct sunlight, extreme temperatures, or high moisture.
- **Cable Management:** Ensure all cables are securely connected and not under strain. Avoid bending cables sharply or placing heavy objects on them.

7. Troubleshooting

If you encounter issues with your VSDISPLAY LCD screen kit, refer to the following common troubleshooting steps:

- **No Display/Black Screen:**
  - Verify that the 12Vdc power adapter is correctly connected and providing sufficient power (>2A).
  - Check all cable connections, especially the LVDS cable between the controller board and the LCD panel, ensuring they are firmly seated.
  - Ensure there is a valid signal input to the controller board (e.g., via USB).
- **Flickering or Unstable Image:**
  - Check the power supply for stability. An unstable power source can cause display issues.
  - Inspect the LVDS cable for any damage or loose connections.
- **OSD Menu Not Responding:**
  - Ensure the keyboard cable is properly connected to the controller board.
  - Test the keyboard buttons for functionality.
- **USB Playback Issues:**
  - Ensure the USB drive is formatted correctly and contains compatible media files.
  - Try a different USB drive to rule out drive issues.

If these steps do not resolve the issue, please contact VSDISPLAY customer support for further assistance.

8. Warranty and Support

For warranty information and technical support, please refer to the official VSDISPLAY website or contact their customer service department. Keep your purchase receipt as proof of purchase for any warranty claims.
VSDISPLAY Official Website: Visit VSDISPLAY Store on Amazon

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