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› VSDISPLAY 14.5 Inch 2560x720 2K LCD Screen VS145T-001T User Manual

VSDISPLAY VS145T-001T

VSDISPLAY 14.5 Inch 2560x720 2K LCD Screen VS145T-001T User Manual

1. INTRODUCTION

This manual provides essential information for the proper setup, operation, and maintenance of your VSDISPLAY 14.5 Inch 2560x720 2K LCD Screen with USB-C LCD Driver Board (Model: VS145T-001T). Please read these instructions carefully before use to ensure optimal performance and longevity of the product.

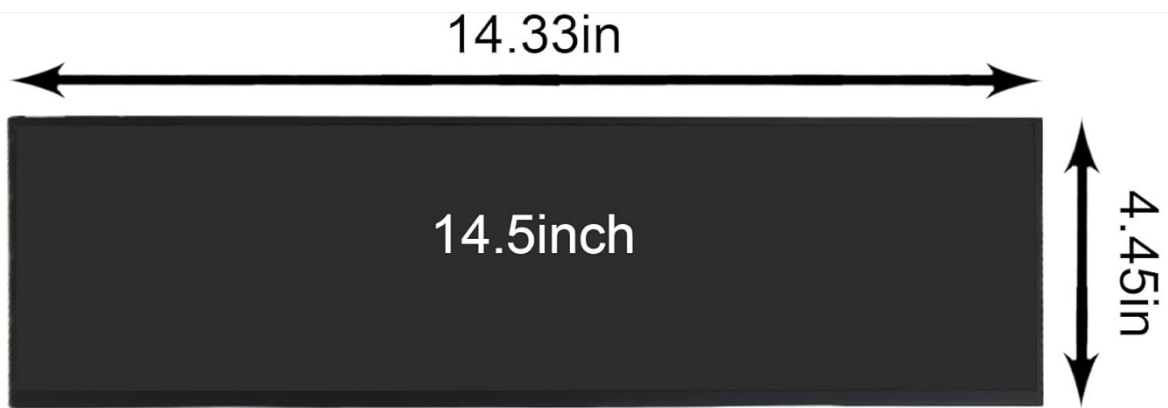


Image 1.1: VSDISPLAY 14.5 Inch 2560x720 2K LCD Screen and USB-C LCD Driver Board.

2. PACKING LIST

Verify that all items listed below are included in your package:

- 1 × USB-C LCD Controller Board VS-AP2K
- 1 × 14.5 inch VS145T-001T 2560x720 2K LCD Screen
- 1 × Signal Cable
- 1 × Keyboard With Cable



Shipping list

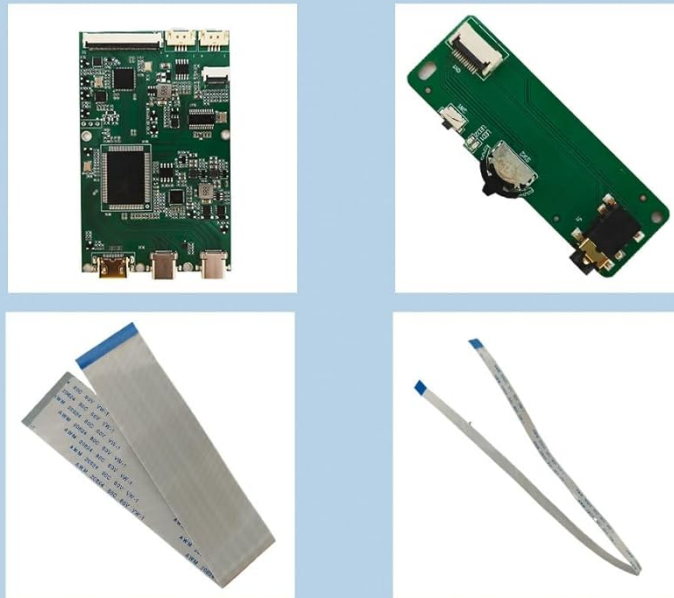


Image 2.1: Visual representation of the included components: LCD controller board, LCD screen, signal cable, and keyboard with cable.

3. SPECIFICATIONS

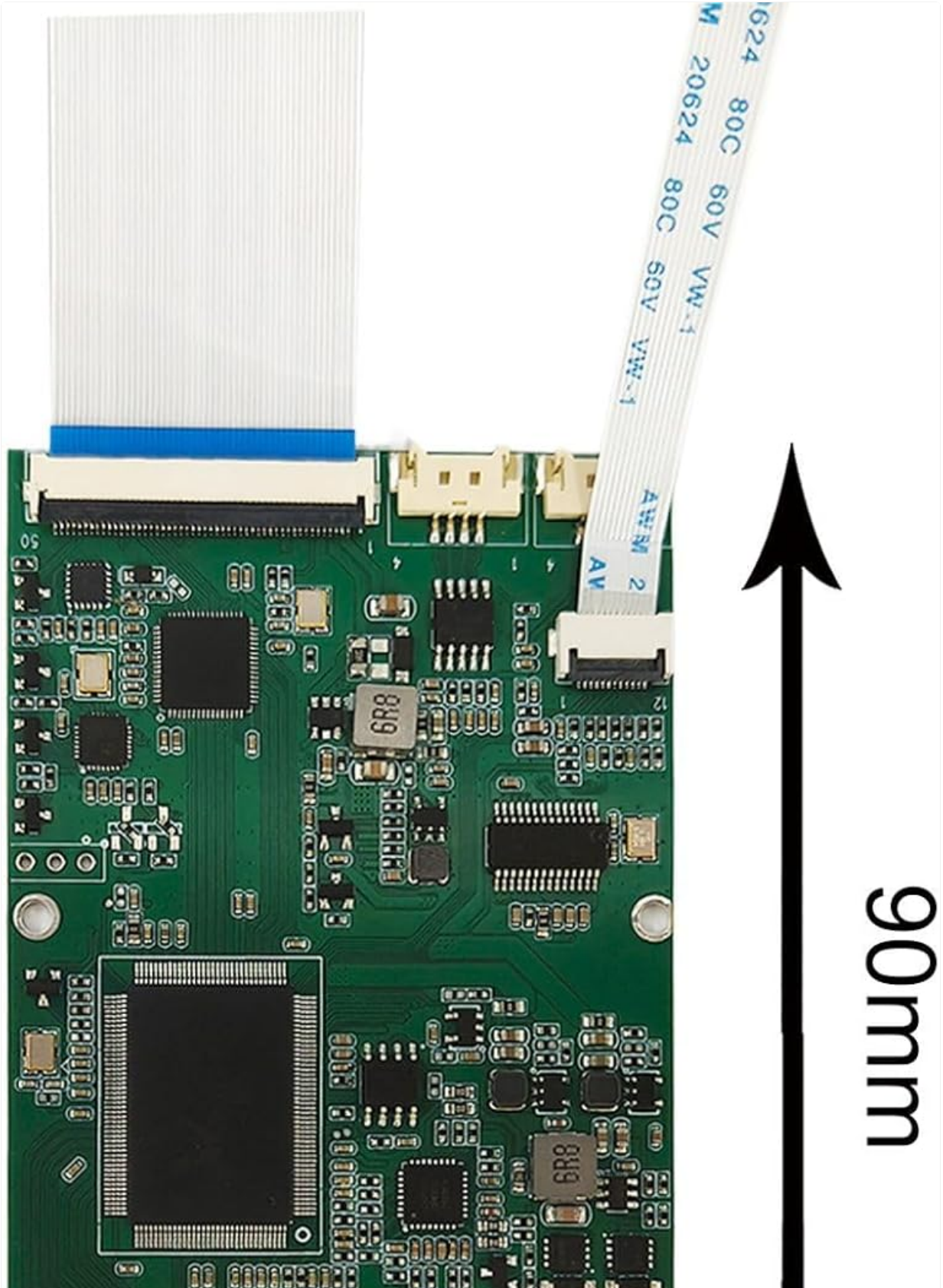
3.1. LCD Controller Board (VS-AP2K)

- **Input Power Adapter:** USB-C connector
- **Standby Model:** <0.3W
- **Input:** USB-C
- **Output:** eDP, USB (max 500mA)
- **Audio Output:** Speaker
- **OSD Menu:** Brightness, Contrast, Volume (+/-), Language (English, Chinese, French, Deutsch, Italian, Espanol, Portugues, Turkce, Polski, Nederlands, Korean, Japanese)
- **Board Size:** 60.8mm x 60.2mm x 4mm

3.2. 14.5 Inch LCD Screen (VS145T-001T)

- **Display Mode:** ADS, Normally Black, Transmissive
- **Resolution:** 2560(RGB) × 720

- **Outline Size:** 364.2 × 113.3 × 3.5 mm (H×V×D)
- **Display Area:** 354.82 × 99.97 mm (H×V)
- **Brightness:** 350 cd/m² (Typ.)
- **Contrast Ratio:** 500:1 (Typ.) (TM)
- **Viewing Angle:** 85/85/85/85 (Typ.) (CR≥10) [Left / Right / Up / Down]
- **Signal Interface:** Parallel RGB (1 ch, 8-bit), 50 pins, FPC
- **Backlight:** WLED
- **Input Voltage:** 3.3V (Typ.)



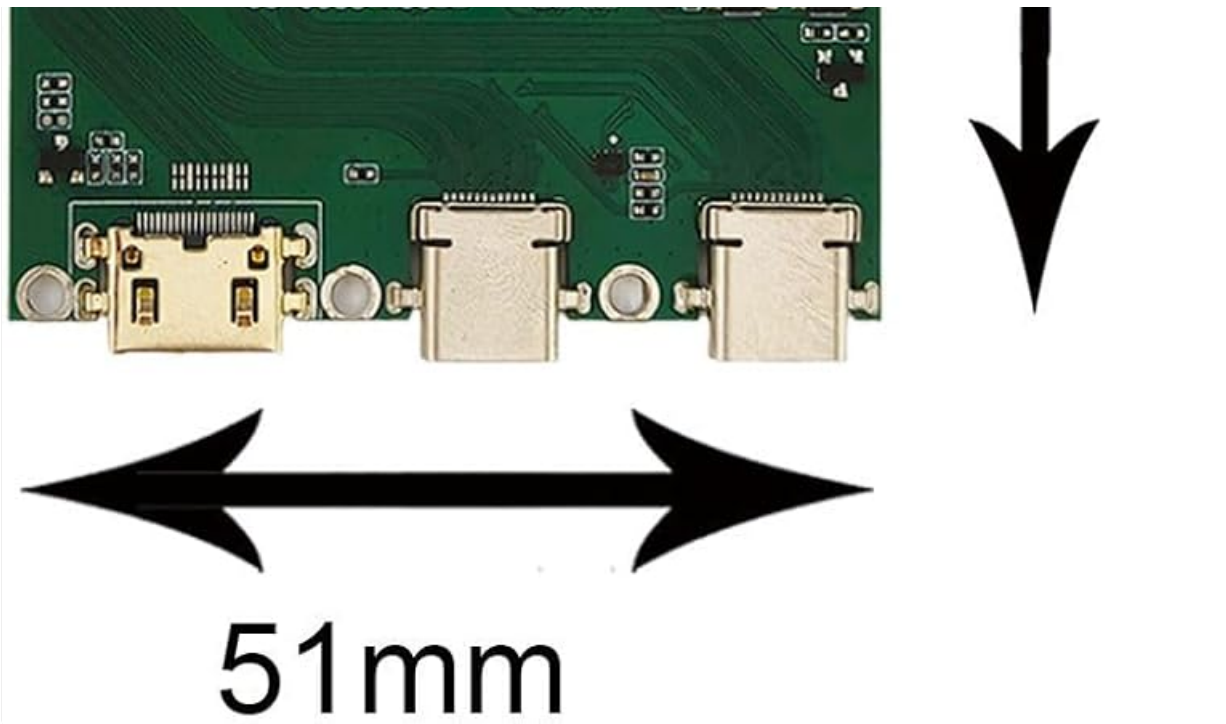


Image 3.1: The VS-AP2K USB-C LCD Controller Board with key dimensions indicated.

4. SETUP

Follow these steps to set up your VSDISPLAY LCD screen and controller board.

4.1. Component Assembly

1. Carefully connect the signal cable (FPC) from the 14.5-inch LCD screen to the corresponding connector on the VS-AP2K LCD Controller Board. Ensure the connection is secure and properly aligned.
2. Connect the keyboard with cable to the designated port on the controller board. This keyboard is used for navigating the On-Screen Display (OSD) menu.



Image 4.1: The LCD panel connected to the controller board via the signal cable.

4.2. Power and Signal Connection

1. Connect a USB-C power source to the USB-C input port on the VS-AP2K controller board. The board supports USB-C for power input.

2. Connect your video source (e.g., PC, game console) to the USB-C input port on the controller board using a compatible USB-C cable. The board supports eDP output to the screen.
3. Ensure all connections are firm before powering on.

4.3. Initial Power On

Once all connections are made, power on your video source. The display should automatically detect the input signal and show the image. If no signal is detected, the board will enter standby mode (<0.3W power consumption).

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Video 4.1: This video demonstrates general installation steps and settings for a 14.5-inch monitor. While the video title mentions 'touch monitor', the installation process shown may be applicable to this display.

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Video 4.2: This video provides further guidance on installing a 14.5-inch LCD screen, highlighting ease of installation. The steps shown are generally applicable to similar display setups.

5. OPERATING INSTRUCTIONS

The OSD (On-Screen Display) menu allows you to adjust various display settings.

5.1. OSD Menu Navigation

Use the provided keyboard with cable to navigate the OSD menu. Typically, there are buttons for Menu, Up, Down, and Enter/Select. Refer to the on-screen prompts for specific button functions.

- **Brightness:** Adjust the display's luminance.
- **Contrast:** Modify the difference between the brightest and darkest areas of the display.
- **VOL+ / VOL-:** Adjust the audio output volume if speakers are connected.
- **Language:** Select your preferred language for the OSD menu.

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Video 5.1: This video demonstrates how to adjust brightness and resolution settings using the OSD menu, which is a common function across various VSDISPLAY monitors.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your display.

6.1. Cleaning the Screen

- Always power off the display before cleaning.
- Use a soft, lint-free cloth slightly dampened with water or a non-abrasive screen cleaner.
- Do not spray liquid directly onto the screen.
- Avoid using harsh chemicals, alcohol, or ammonia-based cleaners, as these can damage the screen surface.

6.2. Handling Precautions

- The LCD panel and controller board are delicate components. Handle them with care to avoid physical damage.
- Avoid applying excessive pressure to the screen surface.
- Keep the components away from direct sunlight, high temperatures, and high humidity.

7. TROUBLESHOOTING

If you encounter issues with your VSDISPLAY LCD screen, refer to the following troubleshooting tips.

7.1. No Display / Black Screen

- Ensure all cables (power and signal) are securely connected.
- Verify that the power source is active and providing sufficient power.
- Check the video output settings on your source device (PC, etc.) to ensure it is configured to output to the connected display.
- Try restarting both the display and the source device.

7.2. USB-C Input Issues

If the display does not automatically show content when connected via USB-C:

- Ensure your USB-C cable supports video output (DisplayPort Alternate Mode). Not all USB-C cables are identical.
- Check your source device's display settings to ensure the USB-C port is enabled for video output.

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Video 7.1: This video provides guidance on USB settings when the display does not automatically show content after USB input.

7.3. Incorrect Resolution or Aspect Ratio

- Access your source device's display settings and set the resolution to 2560x720.
- If the display is not full screen, adjust the refresh rate. Some systems may require setting the refresh rate to 56.89Hz instead of 60Hz for proper scaling.

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Video 7.2: This video illustrates how to resolve issues with non-full screen display by adjusting the refresh rate from 60Hz to 56.89Hz.

7.4. OSD Menu Not Responding

- Ensure the keyboard cable is securely connected to the controller board.
- Check for any physical damage to the keyboard or cable.

8. WARRANTY AND SUPPORT

For specific warranty information and technical support, please refer to the documentation provided with your purchase or contact VSDISPLAY customer service directly. Contact details can typically be found on the seller's official website or through your purchase platform.