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VSDISPLAY VS104T-003A

VSDISPLAY 10.4" VS104T-003A IPS LCD Display and Controller Board User Manual

Model: VS104T-003A

1. Introduction

This manual provides detailed instructions for the setup, operation, and maintenance of your VSDISPLAY 10.4-inch VS104T-003A IPS LCD Display with its accompanying H/D Controller Board. Please read this manual thoroughly before installation and use to ensure proper functionality and to prevent damage to the components.

2. Package Contents

Please verify that all items listed below are included in your package. If any items are missing or damaged, please contact your vendor.

- 1 × Audio LCD Controller Board
- 1 × 10.4-inch VS104T-003A 1024x768 IPS LCD Screen
- 1 × LVDS Cable
- 1 × Inverter Board
- 1 × Keyboard with Cable

Note: A power adapter is not included in the packing list and must be purchased separately.

3. Product Overview

This section provides a visual guide to the components included in your kit.

3.1 LCD Controller Board

The controller board manages video input signals and outputs to the LCD panel. It features various ports for connectivity.

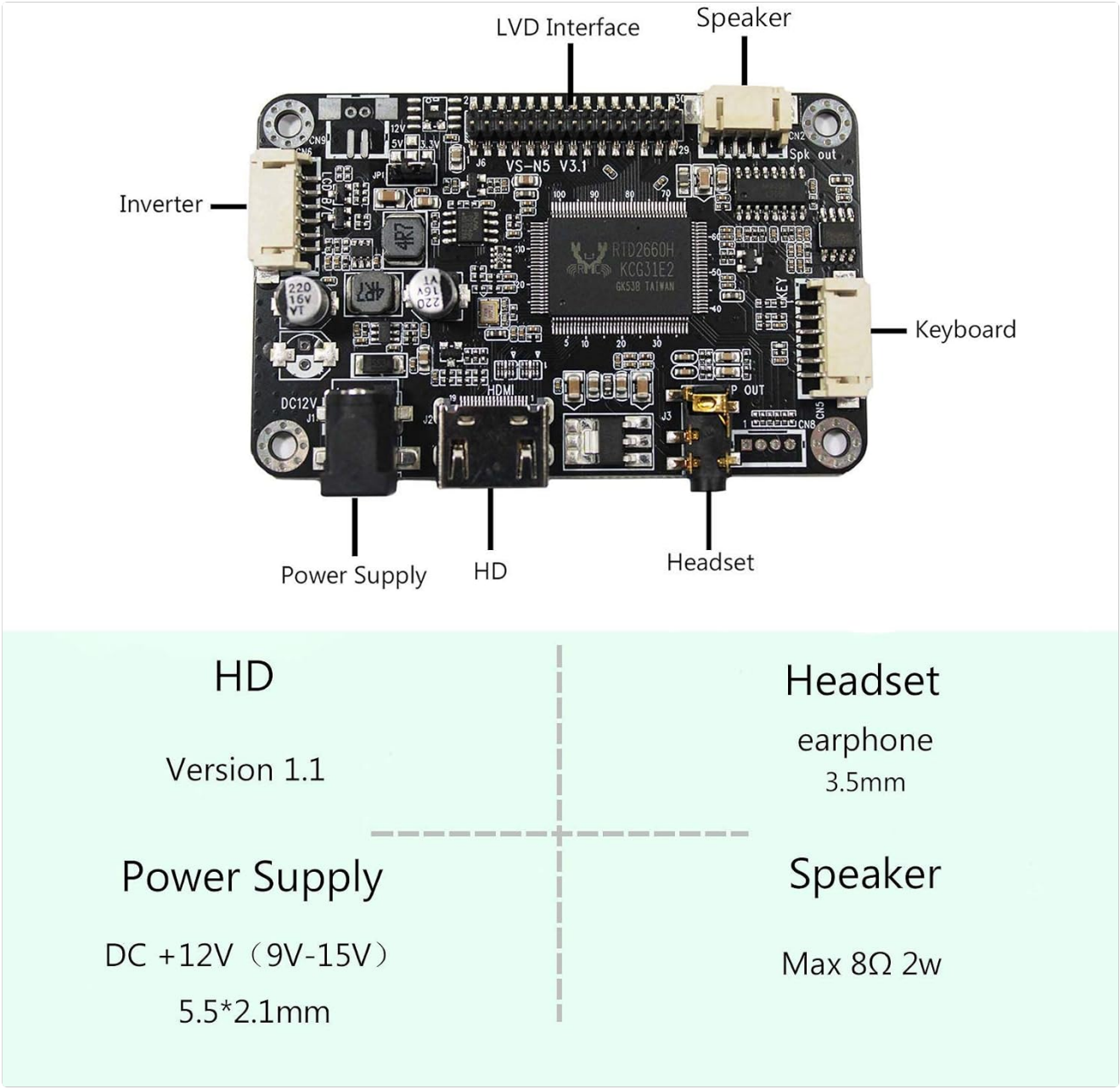


Image 1: Top view of the LCD Controller Board with all ports clearly labeled, including LVDS Interface, Speaker, Inverter, Keyboard, Power Supply, HD (HDMI), and Headset connections.

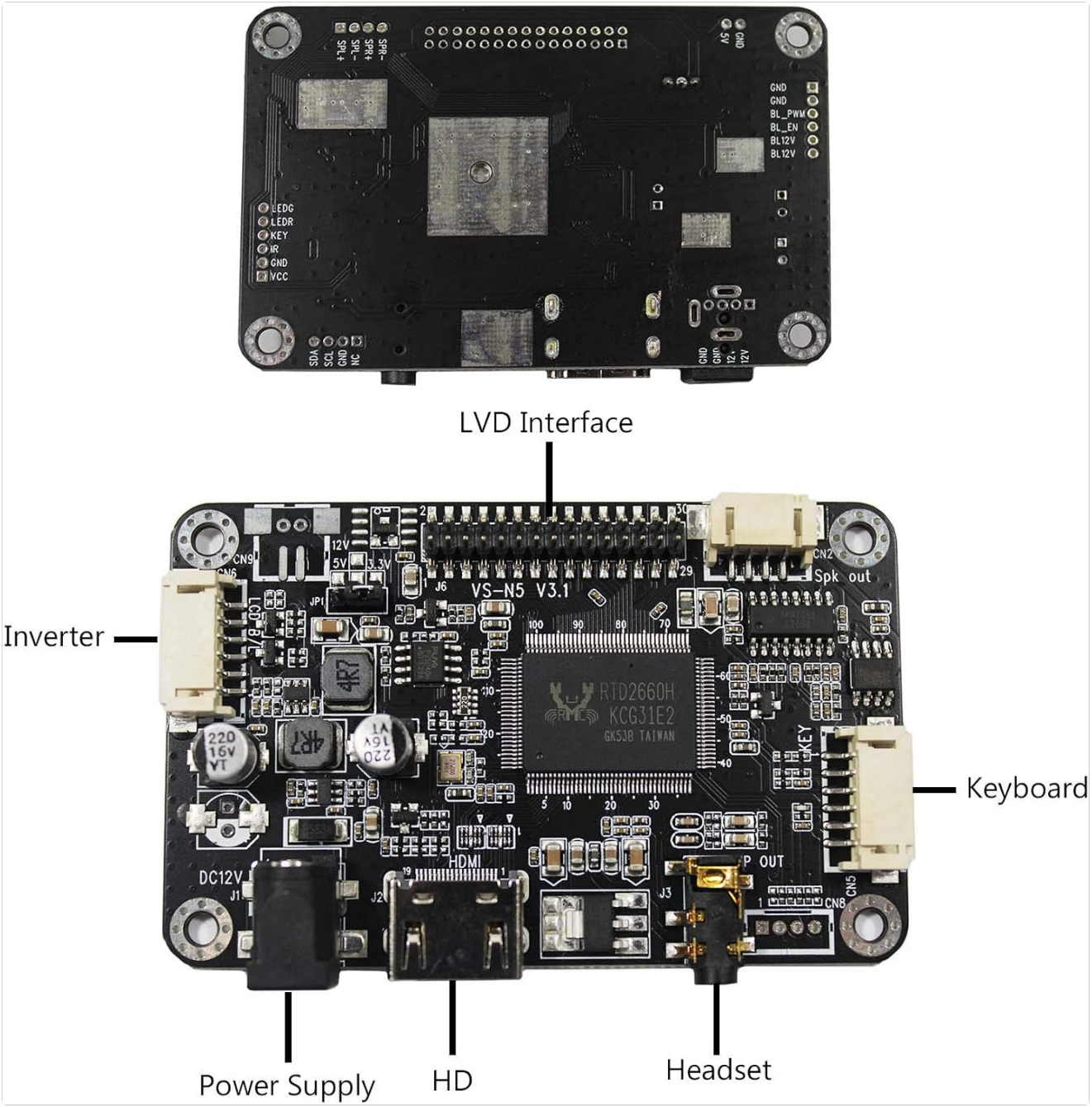


Image 2: Front and back views of the LCD Controller Board, showing the component layout on both sides and the LVDS interface connector on the reverse.

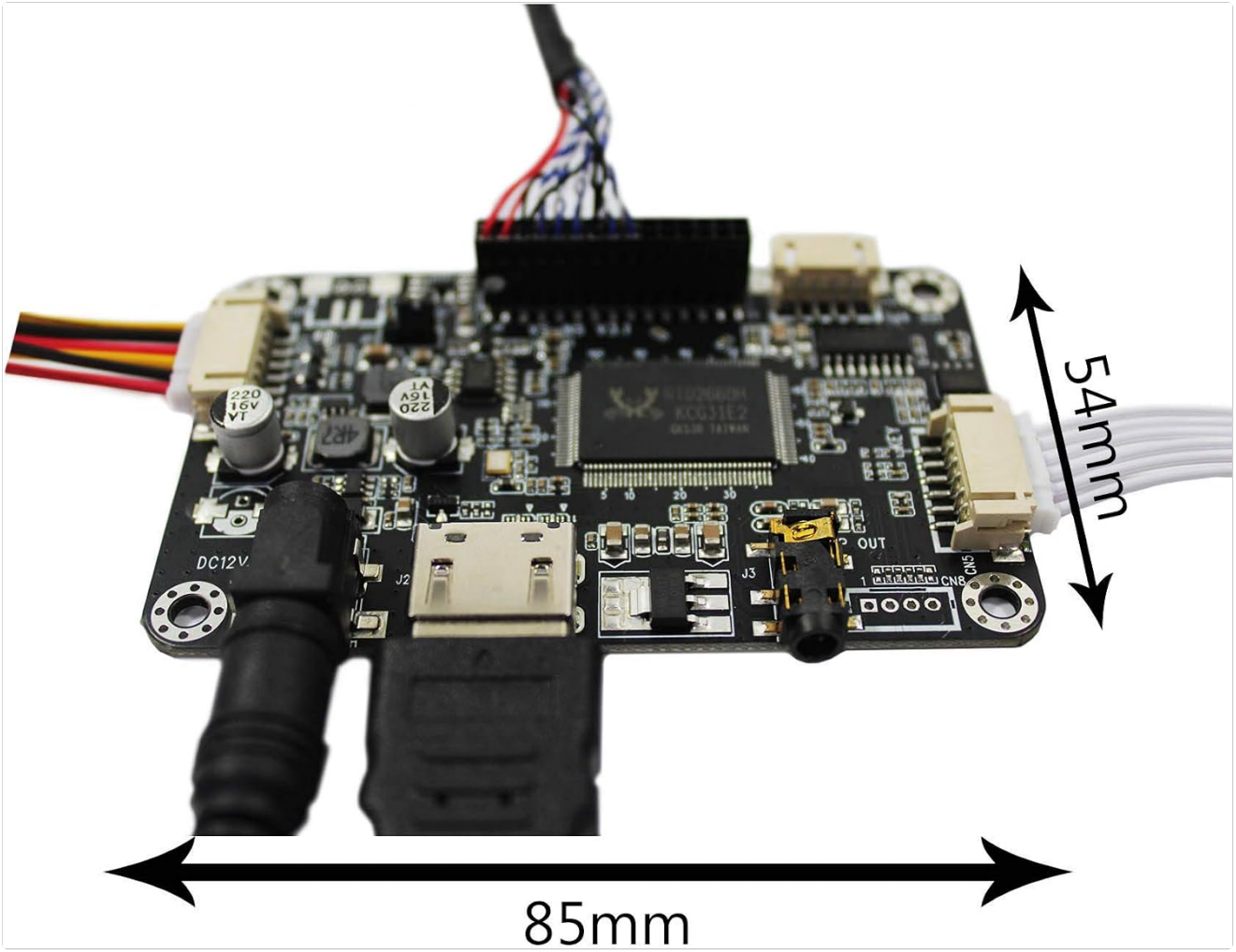


Image 3: Dimensions of the LCD Controller Board, measuring approximately 85mm in length and 54mm in width.

3.2 10.4-inch IPS LCD Screen

The 10.4-inch IPS LCD screen provides a 1024x768 resolution display with wide viewing angles.

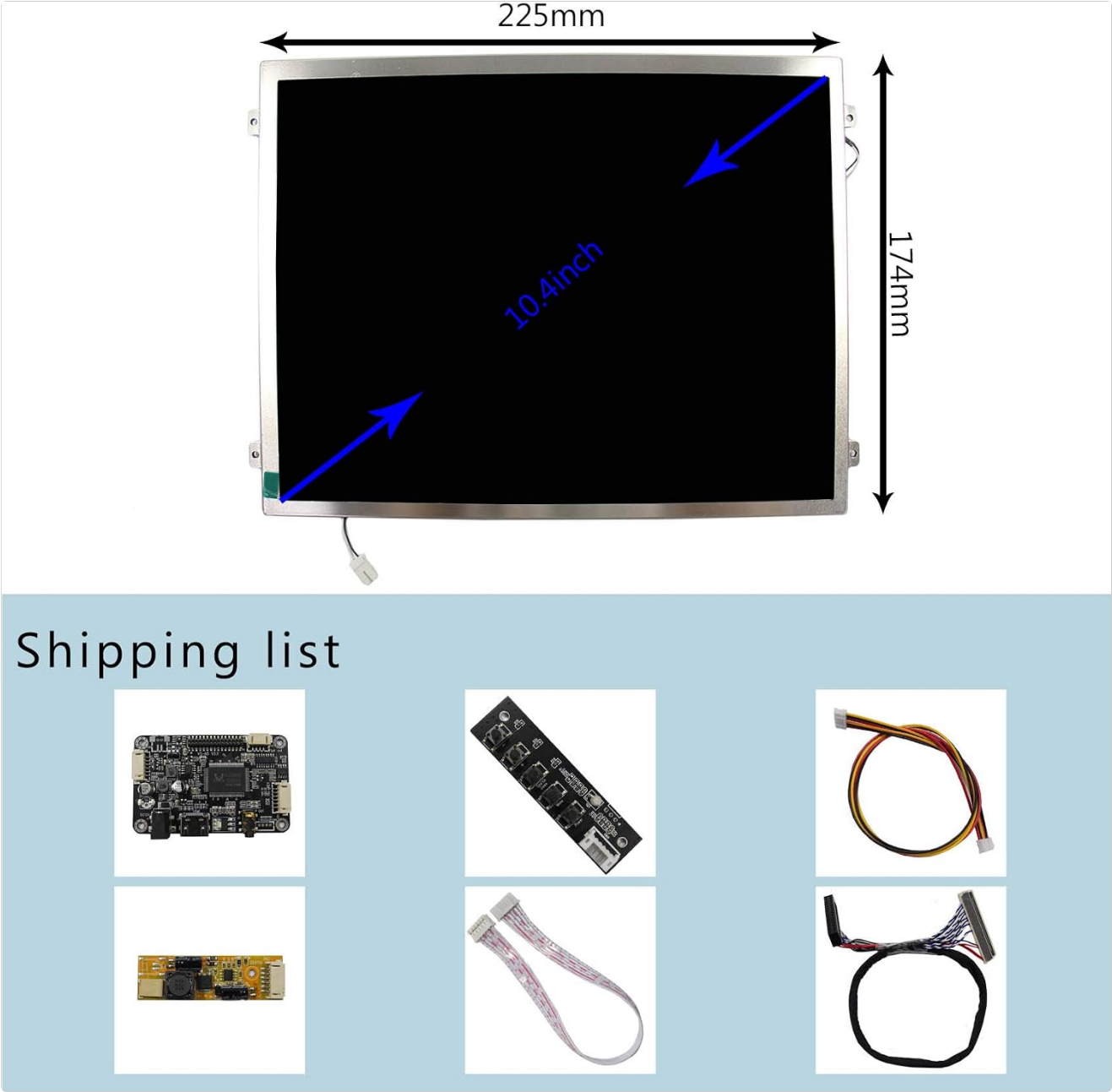


Image 4: The 10.4-inch LCD screen with its dimensions (225mm x 174mm) indicated. Below, a visual representation of the complete shipping list, including the controller board, LCD, cables, inverter, and keyboard.

4. Setup Instructions

Follow these steps to correctly assemble and connect your LCD display kit.

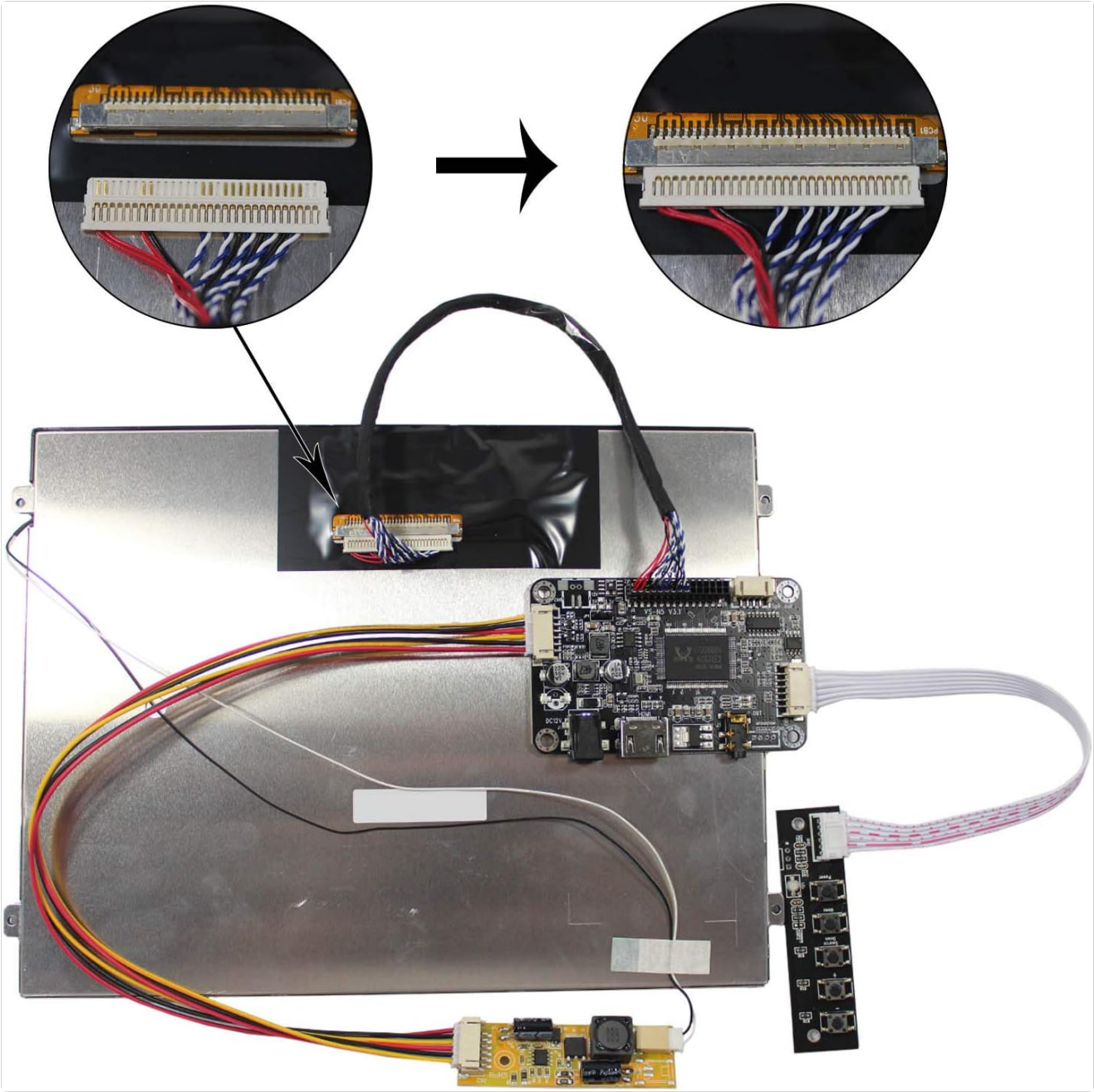


Image 5: An example of the fully assembled LCD kit, showing the connections between the LCD panel, controller board, LVDS cable, inverter board, and keyboard.

1. **Connect the LVDS Cable:** Carefully connect one end of the LVDS cable to the 30-pin connector on the LCD screen and the other end to the LVDS interface on the controller board. Ensure correct orientation and a secure connection.
2. **Connect the Inverter Board:** Connect the inverter board to the backlight connector on the LCD panel. Then, connect the inverter cable to the designated inverter port on the controller board.
3. **Connect the Keyboard:** Attach the keyboard cable to the keyboard port on the controller board. This keyboard is used for OSD (On-Screen Display) menu navigation.
4. **Connect Video Input:** Connect your video source (e.g., PC, media player) to the HD (HDMI) port on the controller board.
5. **Connect Audio (Optional):** If audio is desired, connect your audio source to the audio input port or connect speakers/headphones to the audio output ports (Speaker or Headset).
6. **Connect Power:** Connect a 12V DC power adapter (not included, recommended 12Vdc, more than 2A) to the power supply input port on the controller board.

7. **Power On:** Once all connections are secure, plug in the power adapter to an electrical outlet. The display should power on and show the input signal.

Caution: Ensure all connections are made while the power adapter is disconnected to prevent damage to the components.

5. Operating Instructions

The controller board features an On-Screen Display (OSD) menu for adjusting display settings.

5.1 OSD Menu Navigation

Use the provided keyboard with cable to navigate the OSD menu:

- **Menu Button:** Press to open the OSD menu.
- **Up/Down Buttons:** Navigate through menu options.
- **Left/Right Buttons:** Adjust values or select sub-menus.
- **Exit Button:** Close the OSD menu.

5.2 Available Settings

Common settings accessible via the OSD menu include:

- Brightness
- Contrast
- Auto Adjustment (for analog signals)
- Language (English, French, German, Spanish, Italian, etc.)
- Input Source Selection
- Aspect Ratio

5.3 Audio Output

The controller board supports audio output through a speaker connector and a 3.5mm earphone jack. Ensure your audio source is connected to the board's audio input if you wish to use these features.

6. Specifications

6.1 10.4" VS104T-003A LCD Screen

Feature	Specification
Display Mode	IPS, Normally Black, Transmissive
Resolution	1024(RGB)×768 (XGA)
Outline Size	225.8 × 174.3 × 5.6 mm (H×V×D)
Display Area	211.2 × 158.48 mm (H×V)
Brightness	500 cd/m² (Typ.)
Contrast Ratio	700:1 (Typ.)
Viewing Angle	85/85/85/85 (Typ.) (CR≥10) [Left / Right / Up / Down]

Signal Interface	LVDS (1 ch, 6/8-bit), Connector, 30 pins
Backlight	WLED
Input Voltage	3.3V (Typ.)

6.2 LCD Controller Board

Feature	Specification
Input Power Adapter	12Vdc, More than 2A
Standby Model	<1W (when no input signal)
Video Input	HD (HDMI) Version 1.1
Audio Input	Supported
Audio Output	Speaker (Max 8Ω 2W), Earphone (3.5mm)
OSD Functions	Brightness, Contrast, Auto, Language, etc.
OSD Languages	English, French, German, Spanish, Italian, etc.
Board Size	85mm x 54mm x 14mm

7. Troubleshooting

If you encounter issues with your display kit, refer to the following common problems and solutions.

- **No Display / Black Screen:**
  - Ensure the 12V DC power adapter is correctly connected and providing power.
  - Check all cable connections (LVDS, inverter, video input) for proper seating.
  - Verify that your video source is powered on and outputting a signal.
  - Try a different video input cable or source to rule out cable/source issues.
- **No Audio:**
  - Ensure your audio source is connected to the controller board's audio input.
  - Check speaker/headphone connections.
  - Verify audio settings in your video source and the OSD menu.
- **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.
- **Image Quality Issues (Flickering, Distorted Colors):**
  - Check the LVDS cable connection for any loose pins or damage.
  - Ensure the video input cable is not damaged and is securely connected.
  - Adjust brightness, contrast, and other display settings via the OSD menu.

8. Maintenance

Proper care and maintenance will extend the lifespan of your VSDISPLAY kit.

- **Cleaning the Screen:** Use a soft, lint-free cloth lightly dampened with water or a non-abrasive screen cleaner. Do not use alcohol, ammonia, or abrasive cleaners, as they can damage the screen surface.
- **Cleaning the Controller Board:** Ensure the board is powered off and disconnected. Use a soft brush or compressed air to remove dust. Avoid using liquids directly on the board.
- **Storage:** When not in use for extended periods, store the components in a cool, dry place away from direct sunlight and extreme temperatures.
- **Environmental Conditions:** Avoid exposing the components to high humidity, dust, or corrosive environments.

9. Warranty and Support

VSDISPLAY products are designed for reliability. For warranty information, technical support, or service inquiries, please refer to the documentation provided at the time of purchase or contact your reseller. You may also visit the official VSDISPLAY website for further assistance.
Please retain your proof of purchase for warranty claims.

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