VSDISPLAY VS-TY2660H-V661

VSDISPLAY 10.4" 1024x768 IPS LCD Screen and Controller Board Instruction Manual

Model: VS-TY2660H-V661

1. INTRODUCTION

This instruction manual provides detailed guidance for the proper setup, operation, and maintenance of your VSDISPLAY 10.4-inch 1024x768 IPS LCD Screen and its accompanying VS-TY2660H-V661 Controller Board. Please read this manual thoroughly before installation and use to ensure optimal performance and longevity of the product.

2. SAFETY INFORMATION

- Ensure all power connections are secure and correctly polarized before applying power.
- Use only the recommended power adapter (12Vdc, more than 2A) to prevent damage.
- Avoid exposing the LCD screen or controller board to moisture, extreme temperatures, or direct sunlight.
- Handle the components with care to prevent electrostatic discharge (ESD) damage.
- Do not attempt to disassemble or modify the components beyond the instructions provided in this manual.

3. PACKAGE CONTENTS

Verify that all items listed below are present in your package:
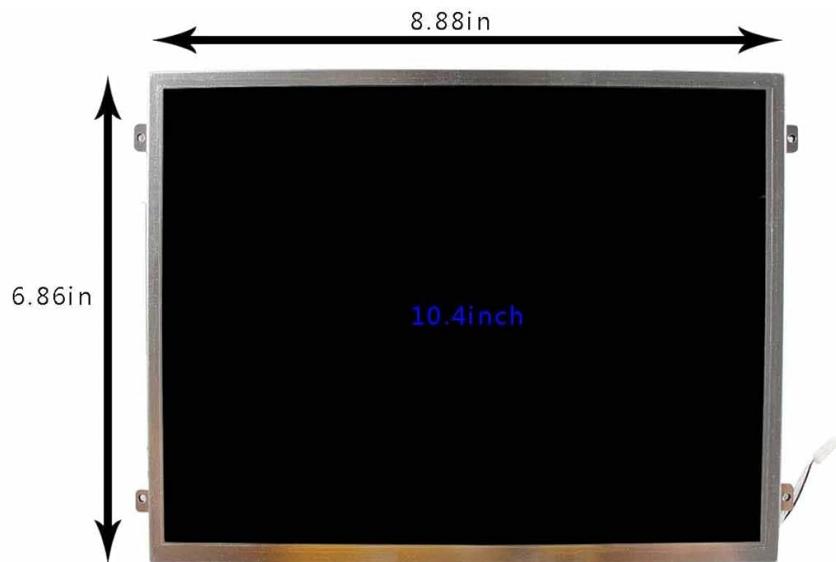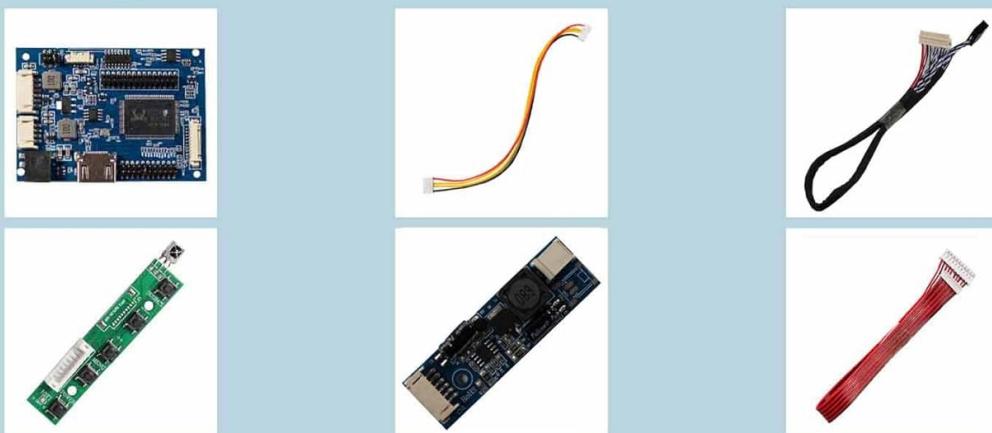
Figure 3.1: All components included in the package.

- 1 × Audio LCD Controller Board (Model: VS-TY2660H-V661)
- 1 × 10.4-inch IPS LCD Screen (Model: VS140T-003A, 1024x768 Resolution)
- 1 × LVDS Cable
- 1 × Inverter Board
- 1 × Keyboard with Cable

# 4. PRODUCT OVERVIEW

4.1. LCD Controller Board (VS-TY2660H-V661)
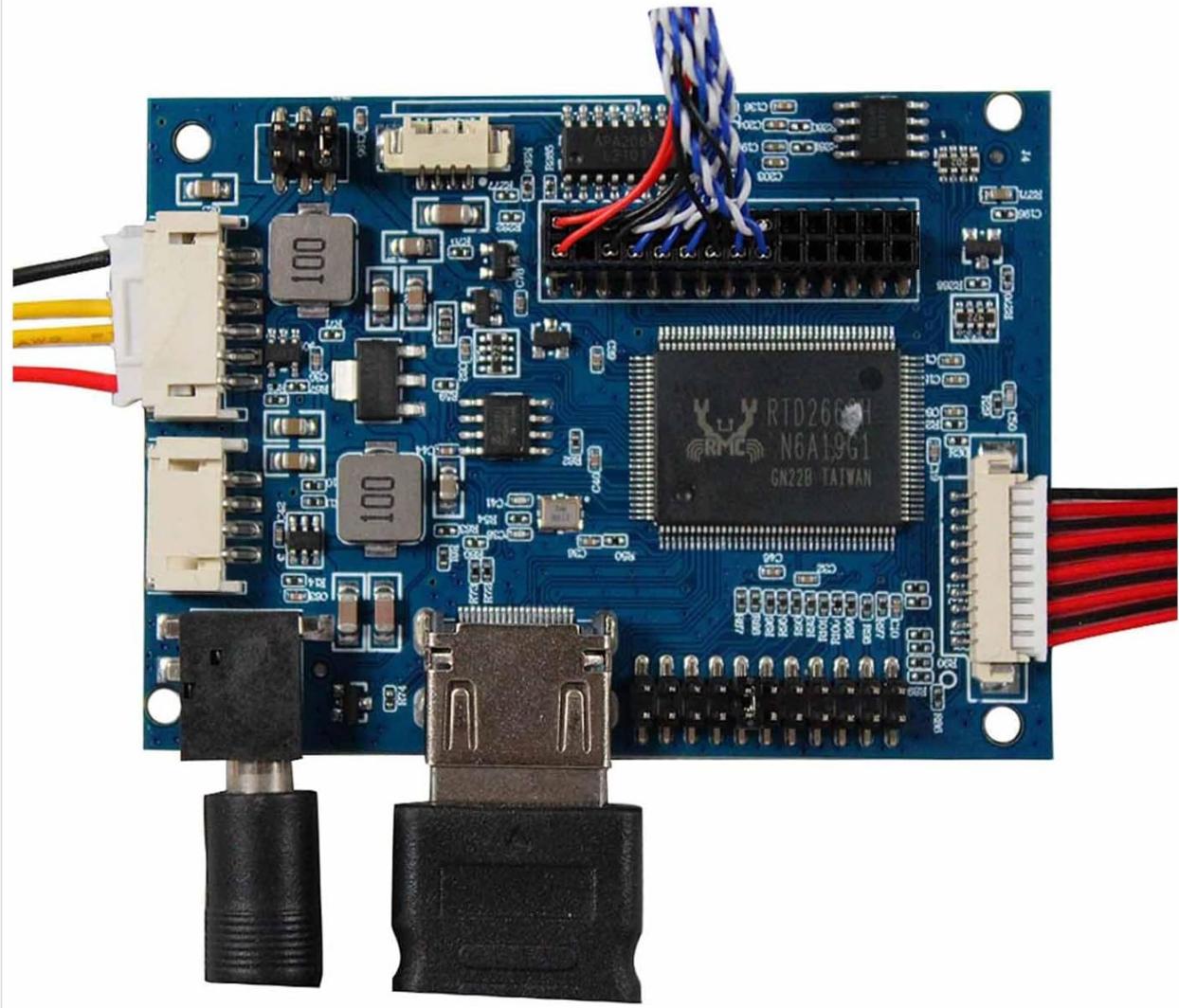
Figure 4.1: Top view of the VS-TY2660H-V661 Controller Board.
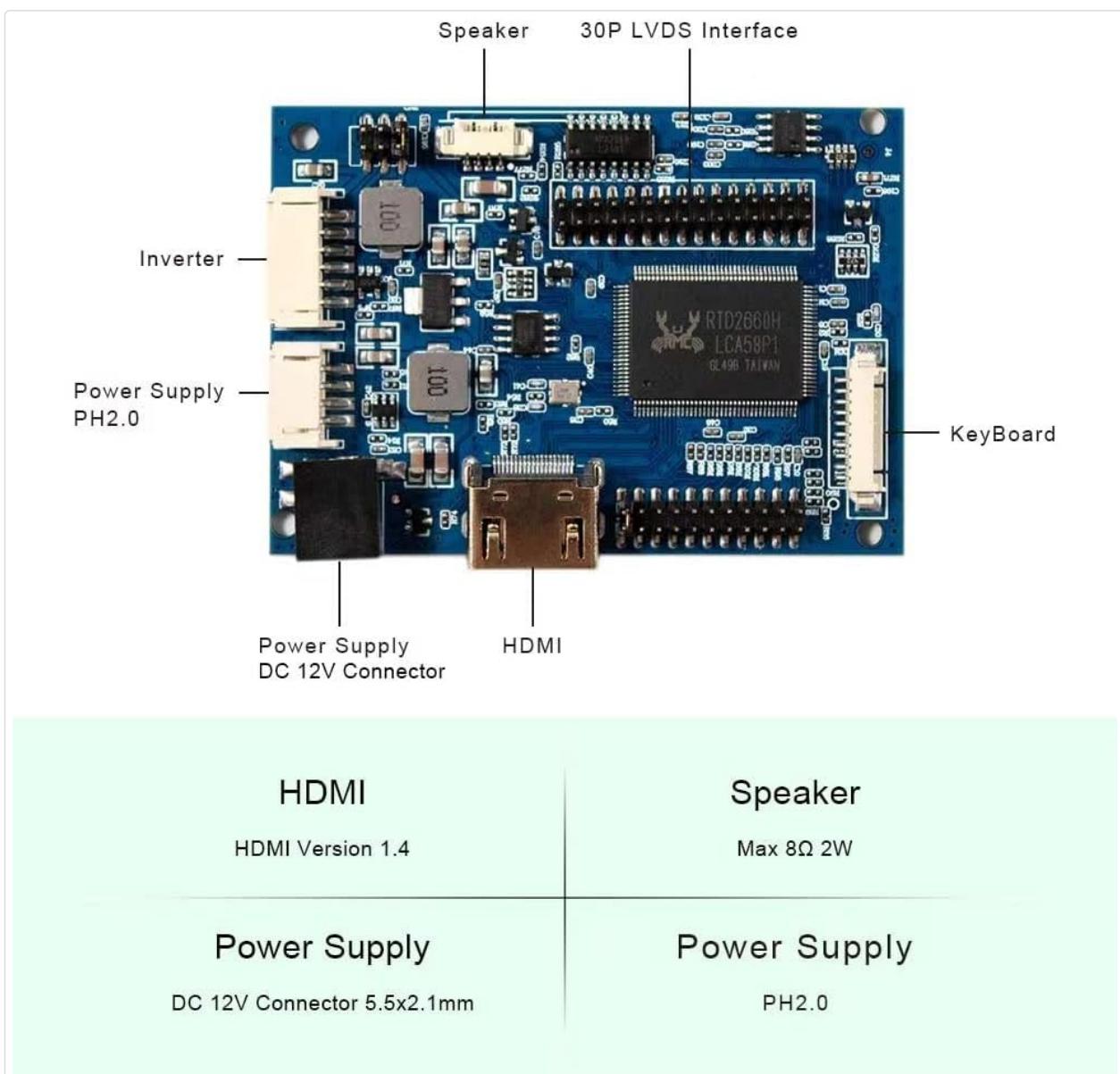
Figure 4.2: Labeled ports and connectors on the Controller Board.

- **Compatibility:** Designed for LVDS interface LCD screens.
- **Input Power:** Requires 12Vdc, typically more than 5A.
- **Standby Power:** Less than 1W in standby mode.
- **Video Input:** Supports standard video input (specific types not detailed in product information).
- **Audio Input:** Supports standard audio input (specific types not detailed in product information).
- **Audio Output:** Speaker output via a 4-pin PH1.0 connector.
- **OSD Functions:** On-Screen Display menu for Brightness, Contrast, Auto-adjustment, Language selection, and other settings.
- **Supported Languages:** English, French, German, Spanish, Italian, and others.
- **Board Dimensions:** 74mm x 53mm x 12mm.

4.2. 10.4-inch IPS LCD Screen (VS140T-003A)

- **Display Mode:** IPS, Normally Black, Transmissive.
- **Resolution:** 1024(RGB) × 768 pixels.
- **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 (Typical).

- **Contrast Ratio:** 700:1 (Typical).

- **Viewing Angle:** 85/85/85/85 (Typical) [Left / Right / Up / Down] at CR≥10.

- **Signal Interface:** LVDS (1 channel, 6/8-bit), 30 pins connector.

- **Backlight:** WLED.

- **Input Voltage:** 3.3V (Typical).

5. Setup Instructions

Follow these steps to connect the LCD screen and controller board. Ensure all power is disconnected before making any connections.
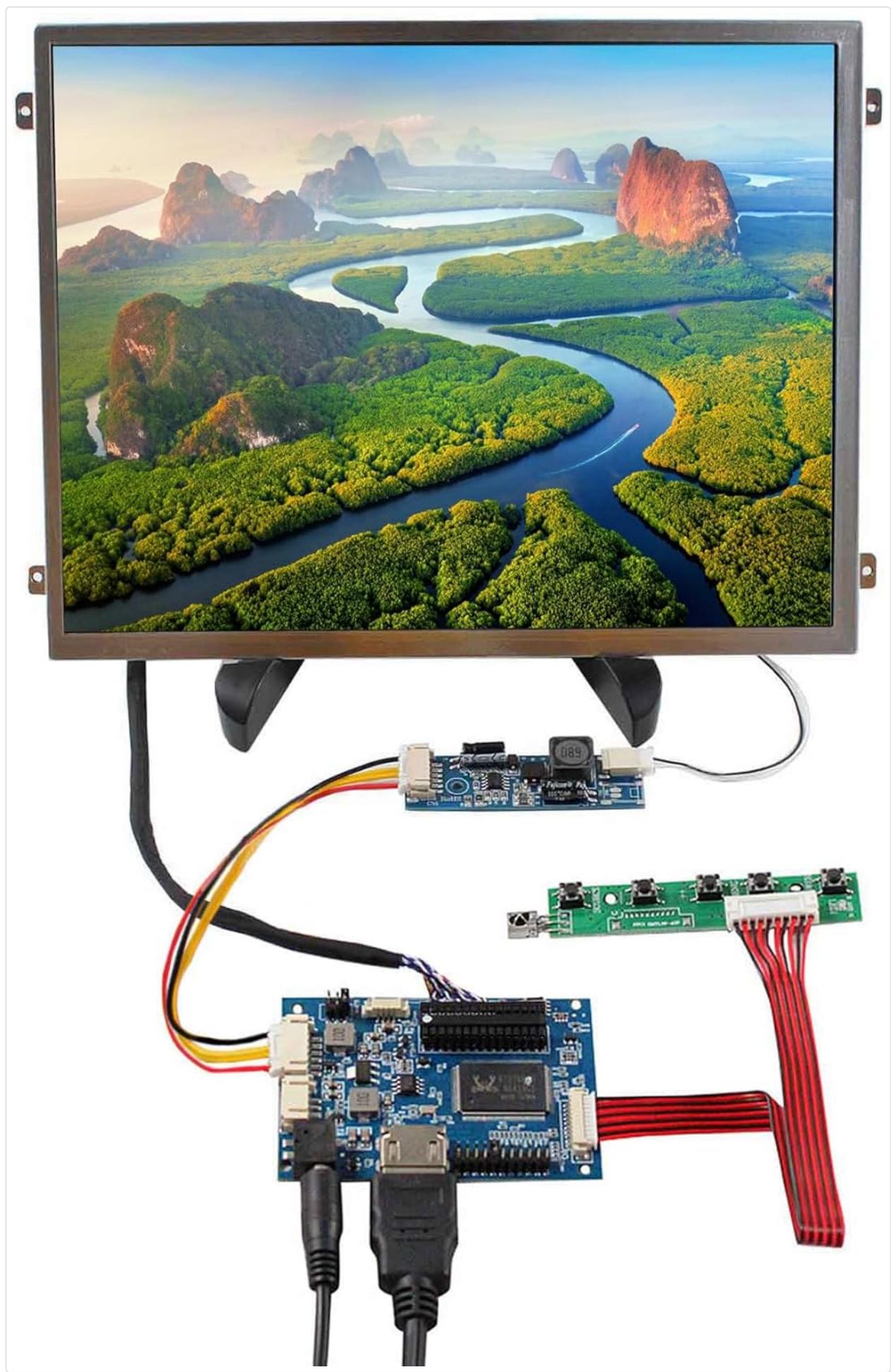
Figure 5.1: Fully assembled VSDISPLAY LCD screen and controller board setup.

1. **Connect the LVDS Cable:** Carefully connect the 30-pin LVDS cable to the corresponding connector on the LCD screen. Ensure the cable is inserted correctly and securely.
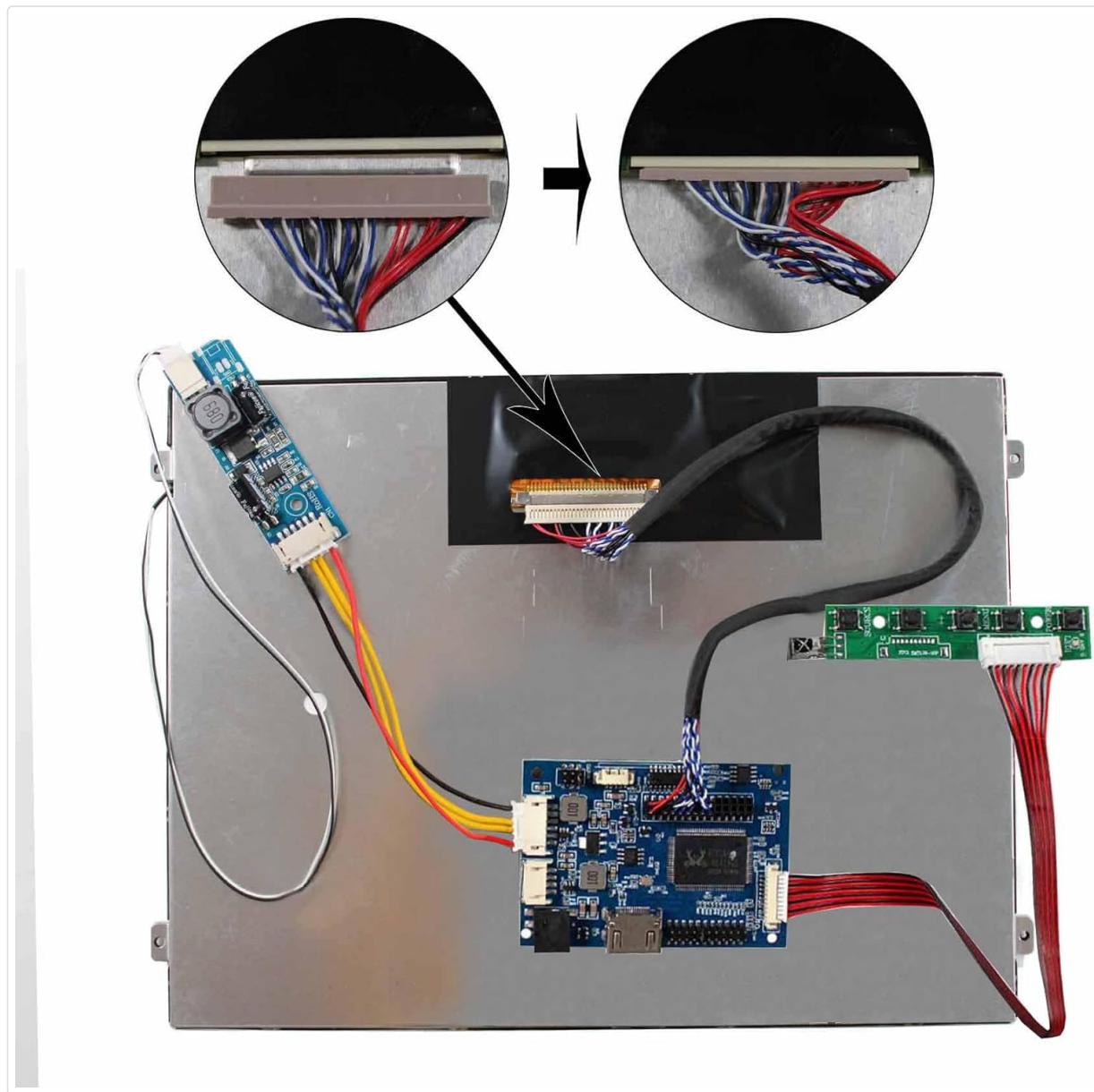
Figure 5.2: Proper LVDS cable connection to the LCD panel.

2. **Connect LVDS Cable to Controller Board:** Connect the other end of the LVDS cable to the 30-pin LVDS interface on the VS-TY2660H-V661 Controller Board (refer to Figure 4.2).

3. **Connect Inverter Board:** Connect the inverter board to the appropriate connector on the controller board.

4. **Connect Keyboard:** Attach the keyboard with its cable to the designated port on the controller board. This keyboard is used for OSD menu navigation.

5. **Connect Power:** Connect a 12Vdc power adapter (recommended: more than 2A) to the DC 12V power connector on the controller board.

6. **Connect Video Source:** Connect your video source (e.g., HDMI) to the appropriate 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 video input.

6. OPERATING INSTRUCTIONS

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

- **Menu Navigation:** Use the buttons on the keyboard to access and navigate the OSD menu.
- **Brightness/Contrast:** Adjust these settings to optimize visual clarity for your environment.
- **Auto Adjustment:** Use this function to automatically optimize the display settings for the current video input.
- **Language:** Select your preferred language for the OSD menu.
- **Input Selection:** If multiple video inputs are connected, use the OSD menu to switch between them.

7. MAINTENANCE

- **Cleaning the Screen:** Gently wipe the screen with a soft, lint-free cloth. For stubborn marks, slightly dampen the cloth with water or a screen-safe cleaning solution. Do not spray liquid directly onto the screen.
- **Cleaning the Board:** Ensure the controller board is free from dust. Use a soft brush or compressed air to clean it when powered off.
- **Storage:** When not in use for extended periods, store the components in a cool, dry place, away from direct sunlight and extreme temperatures.

8. TROUBLESHOOTING

- **No Display:**
  - Check all cable connections, especially the LVDS cable, ensuring it is securely seated at both ends.
  - Verify that the power adapter is correctly connected and providing 12Vdc.
  - Ensure your video source is active and correctly connected to the controller board.
  - Try cycling the power to both the display and the video source.

- **Flickering or Distorted Image:**
  - Check the LVDS cable for any damage or loose connections.
  - Ensure the power supply is stable and sufficient.
  - Adjust the display settings via the OSD menu, particularly the 'Auto' adjustment function.

- **No OSD Menu:**
  - Verify that the keyboard cable is securely connected to the controller board.
  - Ensure the keyboard itself is functional.

If you encounter issues not covered here, please refer to the manufacturer's support resources.

9. SPECIFICATIONS
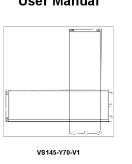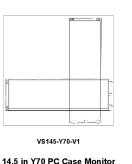
Component	Specification
Brand	VSDISPLAY
Model Number (Controller Board)	VS-TY2660H-V661
Screen Size	10.4 Inches
Resolution	1024 x 768 Pixels (XGA)
Aspect Ratio	4:3

Display Mode	IPS, Normally Black, Transmissive
Brightness	500 cd/m² (Typical)
Contrast Ratio	700:1 (Typical)
Viewing Angle	85/85/85/85 (Left/Right/Up/Down)
Screen Surface	Glossy
Signal Interface	LVDS (1 ch, 6/8-bit), 30 pins
Backlight	WLED
Controller Board Input Power	12Vdc (Recommended >2A, typically >5A)
Controller Board Standby Power	<1W
Controller Board Dimensions	74mm x 53mm x 12mm
Product Dimensions (Assembled)	0.22 x 8.9 x 6.86 inches
Manufacturer	VSDISPLAY

10. WARRANTY AND SUPPORT

For warranty information, technical support, or further assistance, please contact VSDISPLAY directly through their official channels or the retailer where the product was purchased. Keep your purchase receipt as proof of purchase.

Related Documents - VS-TY2660H-V661

VSDISPLAY User Manual VS145-Y70-V1 14.5 in Y70 PC Case Monitor www.vcicd.com	[VSDISPLAY VS145-Y70-V1 14.5-inch PC Case Monitor User Manual](#) User manual for the VSDISPLAY VS145-Y70-V1, a 14.5-inch monitor designed for the Hyte Y70 PC case. Includes packing lists, installation, operation, specifications, energy label, troubleshooting, and informative notes.
YAMAHA RX-V661 AV Receiver	[YAMAHA RX-V661 AV Receiver Owner's Manual](#) Comprehensive owner's manual for the YAMAHA RX-V661 AV Receiver. This guide provides detailed instructions on setup, operation, advanced features, connections, and troubleshooting for your audio-video receiver.
VSDISPLAY User Manual VS145-Y70-V1 14.5 in Y70 PC Case Monitor www.vcicd.com	[VSDISPLAY VS145-Y70-V1 14.5-inch PC Case Monitor User Manual](#) User manual for the VSDISPLAY VS145-Y70-V1, a 14.5-inch monitor designed for the Hyte Y70 PC case. Includes packing lists, installation, operation, specifications, energy label, troubleshooting, and informative notes.