

FanyiTek VS34003C39

FanyiTek 3.4-inch 800x800 IPS MIPI Round LCD Touch Screen and Controller Board User Manual

Brand: FanyiTek | Model: VS34003C39

1. INTRODUCTION AND OVERVIEW

This manual provides instructions for the FanyiTek 3.4-inch 800x800 IPS MIPI Round LCD Touch Screen and its accompanying Controller Board. This product is designed for various electronic projects requiring a compact, high-resolution, and interactive display solution.

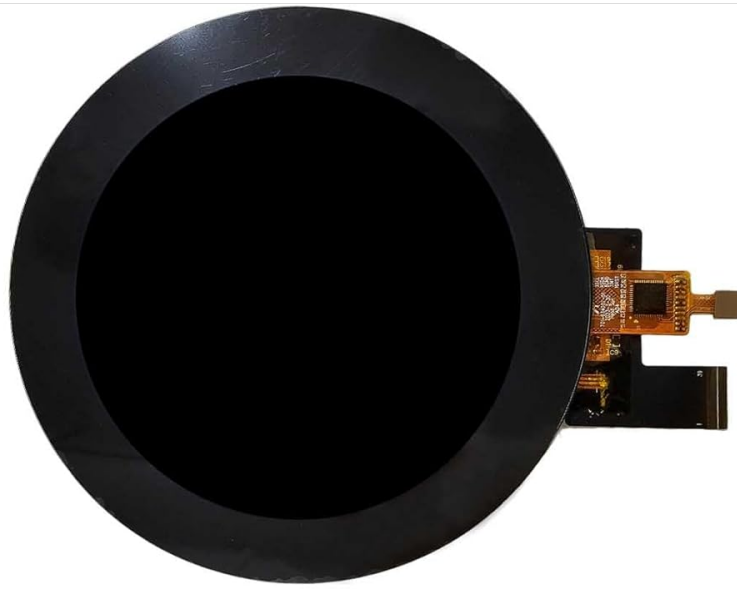
Key Features:

- 3.4-inch 800x800 circular display with IPS full viewing angle.
- 330 nit high brightness with WLED backlight.
- Capacitive touch sensor panel for convenient operation.
- Controller board with Micro H/D video input.
- Plug and play functionality for easy setup.

2. PACKAGE CONTENTS

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

- 1 × LCD Controller Board
- 1 × 3.4-inch VS34003C39 800x800 Capacitive Touch LCD Screen



Shipping list

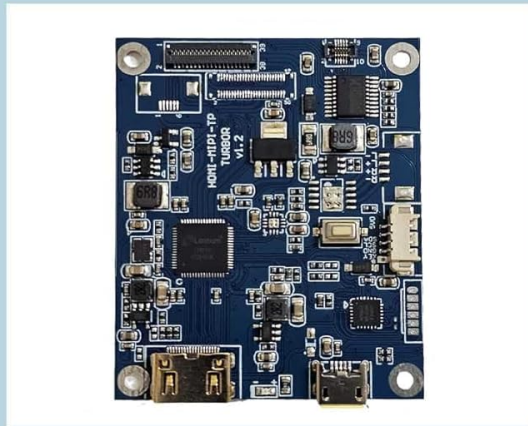


Figure 2.1: Package contents, including the LCD controller board and the round LCD screen.

3. SETUP INSTRUCTIONS

Follow these steps to set up your FanyiTek LCD Touch Screen and Controller Board:

1. **Connect the LCD Screen to the Controller Board:** Carefully connect the flexible flat cable (FFC) from the 3.4-inch round LCD screen to the corresponding connector on the controller board. Ensure the connection is secure and correctly oriented. Refer to Figure 3.1 for visual guidance on connecting the ribbon cable.
2. **Connect Power:** Provide 5V DC power (more than 1A) to the controller board via the USB power input. This power adapter is not included and must be prepared separately.
3. **Connect Video Input:** Connect your video source (e.g., computer, Raspberry Pi) to the Micro H/D video input port on the controller board.
4. **Power On:** Once all connections are secure, power on the system. The touch screen should display the input signal.

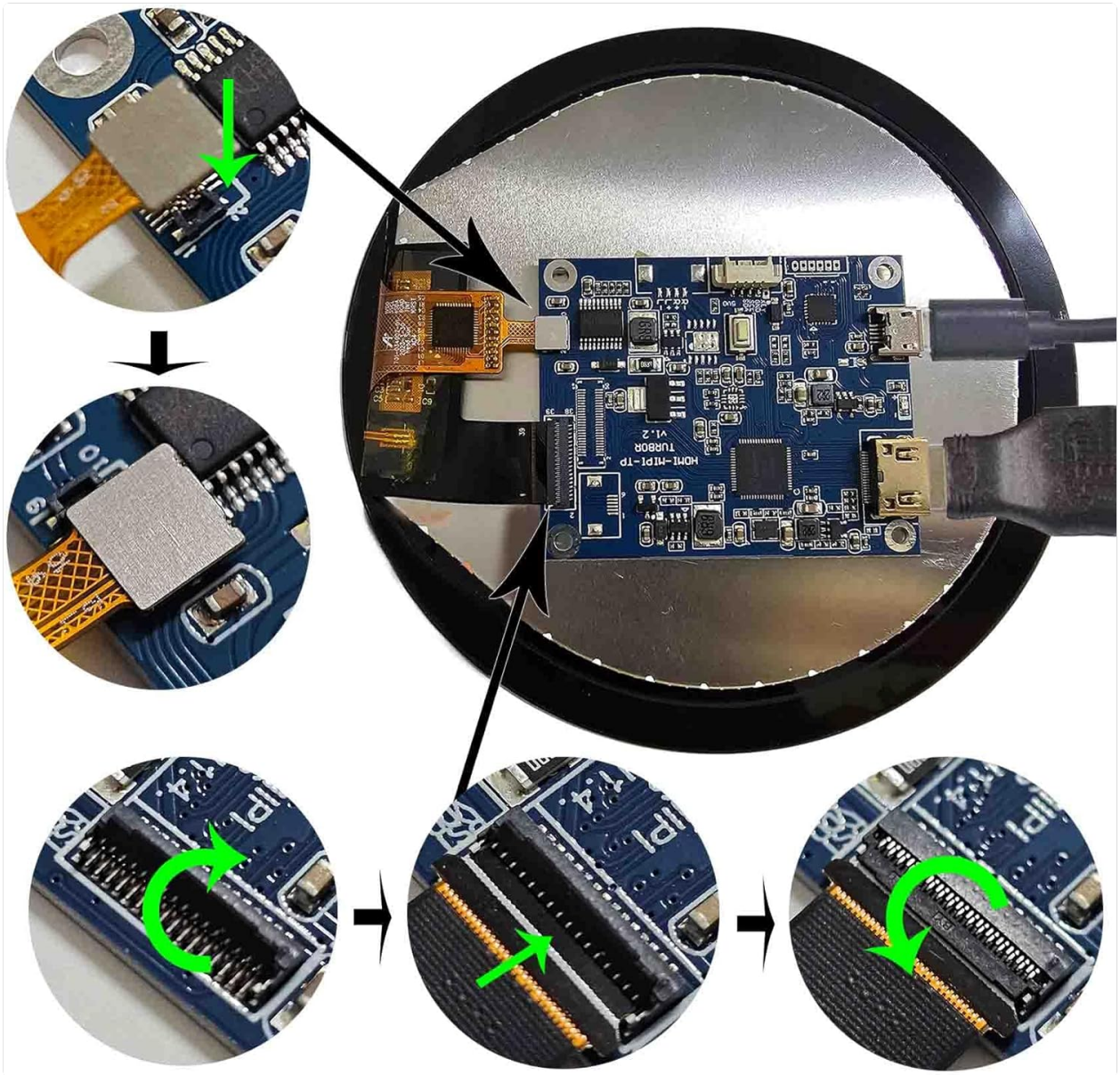
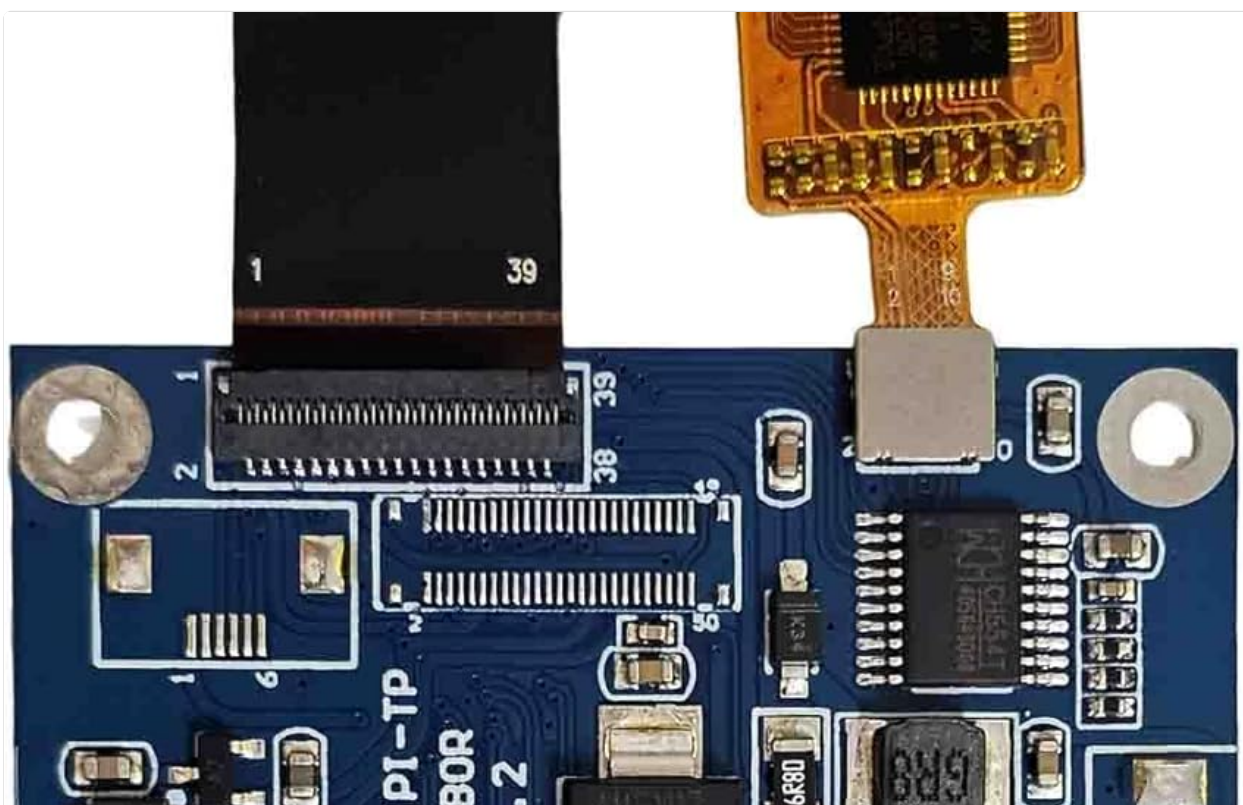


Figure 3.1: Detailed view of connecting the LCD screen's ribbon cable to the controller board.



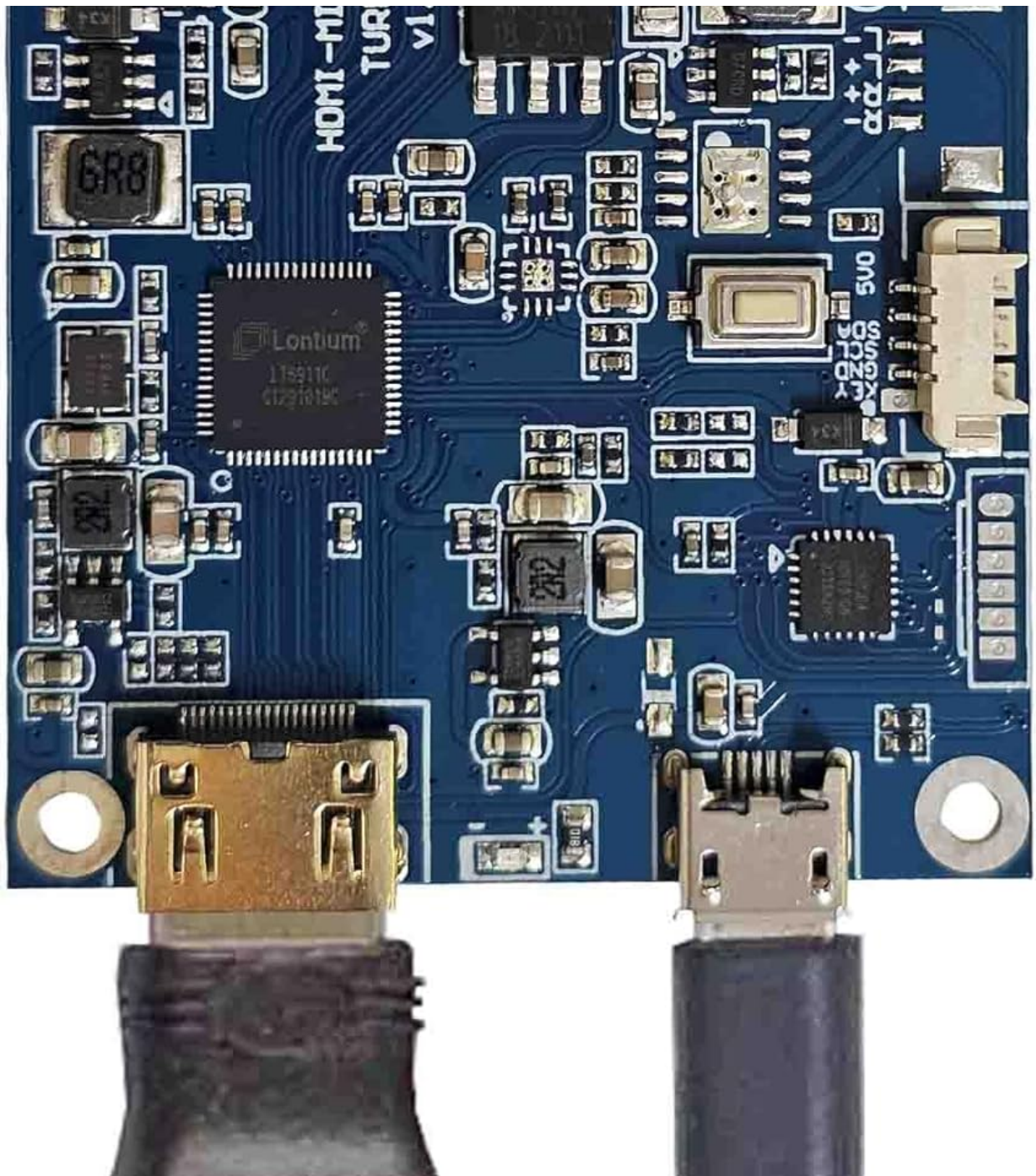


Figure 3.2: Close-up of the controller board, illustrating the HDMI and USB power input ports.

Important Note:

The controller board should be used in an insulated environment to prevent short circuits or damage.

4. OPERATING INSTRUCTIONS

The FanyiTek 3.4-inch LCD features a capacitive touch panel for interactive control. Once the screen is set up and receiving a video signal, you can interact with the displayed content using touch gestures.

- **Touch Input:** Use your finger to tap, swipe, or pinch on the screen, similar to a standard smartphone or tablet.
- **Multi-touch Support:** The capacitive touch panel supports multi-touch gestures, allowing for actions like zooming in/out or two-finger scrolling, depending on the operating system or application.
- **Calibration:** If touch accuracy is an issue, refer to your operating system's display settings for touch screen calibration options.

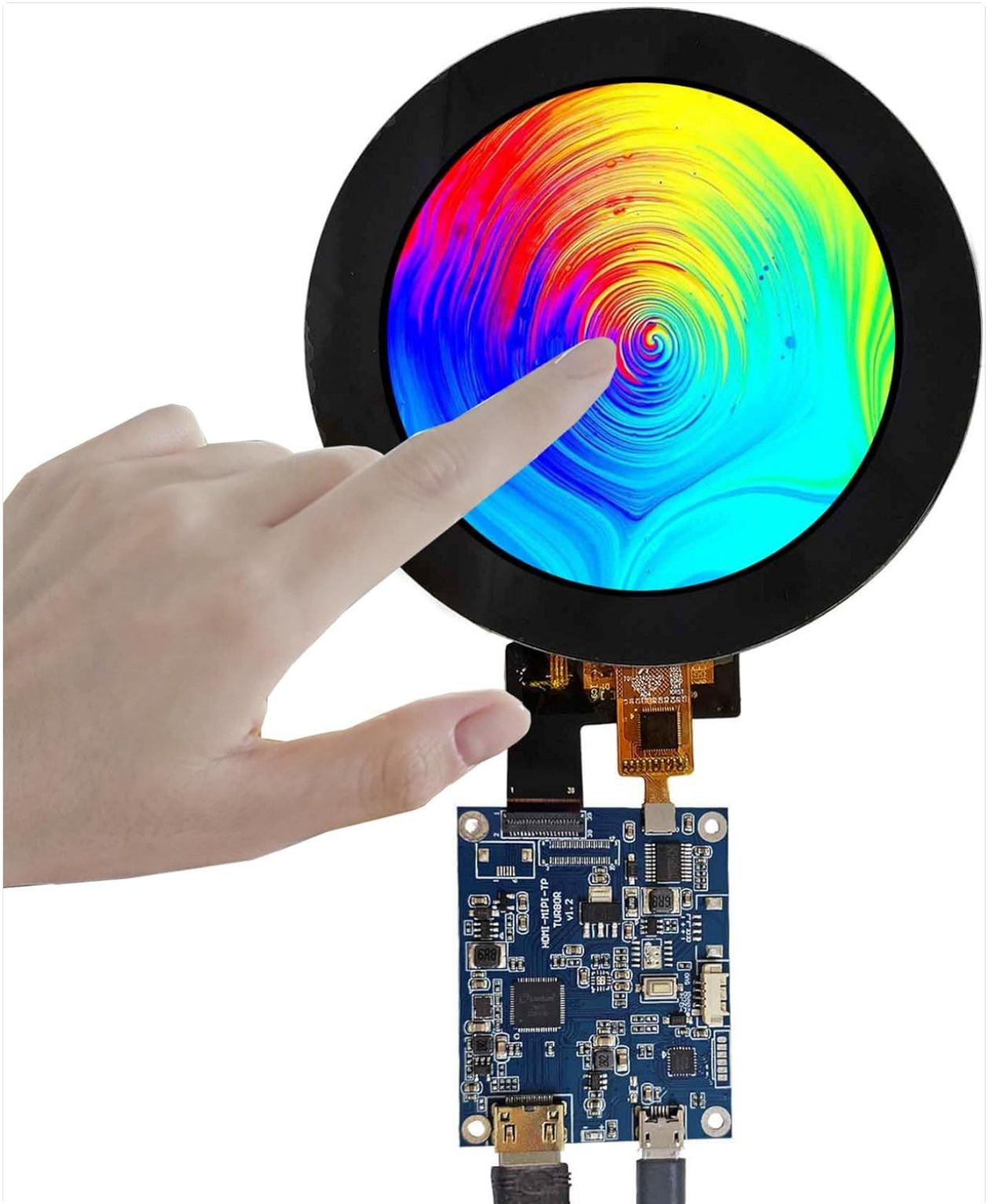


Figure 4.1: The 3.4-inch round LCD touch screen in operation, displaying an image.

Demonstration Video

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Video 4.1: This video demonstrates the assembly and basic functionality of the 3.4-inch round touch screen with its controller board, including connecting cables and testing touch input on a Windows desktop environment.

5. SPECIFICATIONS

Feature	Specification
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Feature	Specification
Brand	FanyiTek
Model	VS34003C39
Screen Size	3.4 Inches
Resolution	800(RGB)x800
Display Mode	IPS, Normally White, Transmissive
Outline Size	104.4 x 104.4 x 4 (W×H×D) mm
Display Area	87.6 x 87.6 (W×H) mm
Brightness	330 cd/m ² (Typ.)
Contrast Ratio	300:1 (Typ.)
Viewing Angle	85/85/85/85 (Typ.) [Left / Right / Up / Down]
Interface	MIPI, 39 pins
Backlight	WLED
LCD Input Voltage	2.8V (Typ.)
Controller Board Input Power	USB 5V, >1A
Controller Board Video Input	Micro H/D
Controller Board Size	50mm x 35mm x 5mm
Aspect Ratio	1:1
UPC	619438625008

6. TROUBLESHOOTING

If you encounter issues with your FanyiTek LCD Touch Screen and Controller Board, consider the following troubleshooting steps:

- **No Display:**

- Ensure the 5V power supply is connected and providing sufficient current (>1A).
- Verify that the video input cable (Micro H/D) is securely connected to both the controller board and the video source.
- Check the flexible flat cable (FFC) connection between the LCD screen and the controller board for proper seating and orientation.
- Confirm that your video source is outputting a signal and is configured for the correct resolution (800x800).

- **No Touch Response:**

- Ensure the FFC for the touch panel is correctly and securely connected to the controller board.
- Verify that the operating system or device connected to the controller board supports touch input

and has the necessary drivers installed.

- Try recalibrating the touch screen through your operating system's display settings.

- **Flickering or Distorted Image:**

- Check the video input cable for damage or loose connections.
- Ensure the power supply is stable and meets the specifications.
- Test with a different video source or cable if possible.

7. MAINTENANCE

To ensure the longevity and optimal performance of your FanyiTek LCD Touch Screen and Controller Board, follow these maintenance guidelines:

- **Cleaning the Screen:** Use a soft, lint-free cloth, slightly dampened with water or a screen-safe cleaning solution, to gently wipe the screen surface. Avoid harsh chemicals, abrasive materials, or excessive pressure.
- **Cleaning the Controller Board:** Keep the controller board free from dust and debris. Use a soft brush or compressed air to clean it. Do not use liquids directly on the board.
- **Storage:** When not in use, store the components in a dry, cool environment, away from direct sunlight and extreme temperatures.
- **Handling:** Always handle the LCD screen and controller board by their edges to avoid touching the display surface or sensitive electronic components. Avoid bending or stressing the flexible flat cables.

8. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your FanyiTek product, please refer to the official FanyiTek website or contact their customer service directly. Keep your purchase receipt as proof of purchase.