

## MiiEIAOD 5 inch Capacitive Touch Screen

# MiiEIAOD 5-inch Capacitive Touch Screen Instruction Manual

For Rock Pi 4 A/B, Rock Pi 3A, and Raspberry Pi Development Boards

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## 1. INTRODUCTION

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This manual provides comprehensive instructions for the MiiEIAOD 5-inch Capacitive Touch Screen. This display is designed to connect to the MIPI DSI interface on compatible development boards, offering an 800x400 resolution and capacitive touch functionality. It is compatible with Rock Pi 4 A/B, Rock Pi 3A, and Raspberry Pi boards.

### 1.1 What's in the Box

- 1 x MiiEIAOD 5-inch Capacitive Touch Screen

## 2. SETUP

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Follow these steps to properly connect your 5-inch Capacitive Touch Screen to your development board.

### 2.1 Connecting the Display

1. **Identify the MIPI DSI Port:** Locate the MIPI DSI (Display Serial Interface) port on your Rock Pi 4 A/B, Rock Pi 3A, or Raspberry Pi development board. This port is typically a flat, ribbon cable connector.
2. **Connect the Ribbon Cable:** Carefully insert the ribbon cable from the 5-inch Capacitive Touch Screen into the MIPI DSI port on your development board. Ensure the cable is inserted correctly with the contacts facing the right direction. Gently close the connector's locking mechanism to secure the cable.
3. **Power On:** Once the display is securely connected, power on your development board. The display should initialize and show the operating system's graphical interface.
4. **Driver Installation (if necessary):** Depending on your operating system and specific board, you may

need to install or enable display drivers for the MIPI DSI interface and touch functionality. Refer to your development board's official documentation for specific software configuration steps.



Image 2.1: The 5-inch Capacitive Touch Screen connected to a development board. The ribbon cable connects the display to the board's MIPI DSI port, and a USB cable provides power or data to the board.



Image 2.2: A side view of the 5-inch Capacitive Touch Screen, highlighting the flexible ribbon cable extending from its side, ready for connection to a development board.

### 3. OPERATING THE DISPLAY

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The MiiEIAOD 5-inch Capacitive Touch Screen provides a visual interface and interactive input for your development projects.

#### 3.1 Basic Operation

- **Display Output:** Once connected and configured, the display will mirror or extend the graphical output of your development board at an 800x400 resolution.
- **Capacitive Touch:** The screen supports multi-touch input. Use your finger or a compatible stylus to interact with the graphical user interface (GUI) of your operating system or application.
- **Orientation:** The display's orientation (landscape or portrait) can typically be configured within your operating system's display settings.

### 4. MAINTENANCE

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Proper care ensures the longevity and optimal performance of your touch screen.

## 4.1 Cleaning the Screen

- Always power off the display and disconnect it from the power source before cleaning.
- Use a soft, lint-free cloth, slightly dampened with water or a screen-specific cleaning solution.
- Gently wipe the screen surface. Avoid excessive pressure or abrasive materials, which can scratch the screen.
- Do not spray cleaning solutions directly onto the screen.

## 4.2 Storage

- Store the display in a cool, dry environment, away from direct sunlight and extreme temperatures.
- Protect the screen surface from scratches when not in use, ideally by keeping it in its original packaging or a protective sleeve.

# 5. TROUBLESHOOTING

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

## 5.1 Common Issues and Solutions

- **No Display Output:**
  - Ensure the ribbon cable is securely connected to both the display and the development board.
  - Verify that the development board is powered on and functioning correctly.
  - Check if the operating system requires specific driver installation or configuration for the MIPI DSI display.
- **Touch Functionality Not Working:**
  - Confirm that the display is properly connected and recognized by the operating system.
  - Ensure touch drivers are installed and enabled in your operating system.
  - Calibrate the touch screen if the input is inaccurate. Refer to your OS documentation for calibration steps.
- **Flickering or Distorted Image:**
  - Check the ribbon cable for any damage or improper seating.
  - Ensure the power supply to the development board is stable and sufficient.
  - Verify that the display resolution and refresh rate are correctly configured in the operating system.

# 6. SPECIFICATIONS

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Key technical specifications for the MiiEIAOD 5-inch Capacitive Touch Screen.

| Feature      | Detail                  |
|--------------|-------------------------|
| Display Size | 5 inches                |
| Display Type | Capacitive Touch Screen |

| Feature                  | Detail   |
|--------------------------|--|
| Resolution               | 800x400  |
| Interface                | MIPI DSI                                       |
| Compatibility            | Rock Pi 4 A/B, Rock Pi 3A, Raspberry Pi        |
| Operating System Support | Linux (and others depending on board support)  |
| Item Weight              | Approximately 2.2 pounds (including packaging) |
| Package Dimensions       | 3.94 x 1.97 x 1.97 inches                      |

## 7. WARRANTY INFORMATION

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For specific warranty details, please refer to the purchase documentation or contact your retailer. Standard return policies typically allow for returns within 30 days of purchase for refund or replacement.

## 8. SUPPORT

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If you require further assistance or have questions not covered in this manual, please contact MiiEIAOD customer support through the retailer's platform or visit the official MiiEIAOD brand store for additional resources.

MiiEIAOD specializes in hardware and software for intelligent IoT, edge computing applications, and robotics, offering R&D support and ancillary services for customized products.

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