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> [JUN-ELECTRON 3.5-inch Touch Screen with Case for Raspberry Pi 3 B+ User Manual](#)

JUN-ELECTRON 8541613031

JUN-ELECTRON 3.5-inch Touch Screen with Case for Raspberry Pi 3 B+ User Manual

Model: 8541613031 | Brand: JUN-ELECTRON

1. INTRODUCTION

This manual provides detailed instructions for setting up and operating your JUN-ELECTRON 3.5-inch Touch Screen with Case, designed for use with Raspberry Pi 3 B+. This display features a 320x480 pixel resistive touch control and connects directly via SPI, supporting various operating systems including Raspbian, Ubuntu, Kali, and RetroPie.

2. SAFETY INFORMATION

- Ensure proper handling of electronic components to prevent damage.
- Avoid exposing the device to extreme temperatures or moisture.
- Disconnect power before performing any assembly or disassembly.
- Use only the provided or recommended accessories.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 3.5-inch TFT LCD Touch Screen (320x480 pixels)
- Protective Case for Raspberry Pi and Screen
- Stylus for touch screen operation
- Heat sinks for Raspberry Pi
- Screws and white nylon columns for assembly
- Tweezers for screw handling
- User Manual (digital or printed)

4. SETUP AND INSTALLATION

4.1. Physical Assembly

Follow these steps to assemble the Raspberry Pi, 3.5-inch screen, and protective case.

1. **Prepare the Raspberry Pi:** Attach the provided heat sinks to the appropriate chips on your Raspberry Pi board.



Image: Raspberry Pi board with heat sinks attached to the main processor and other chips.

2. **Attach the Screen to Raspberry Pi:** Carefully align the 3.5-inch display with the GPIO pins on your Raspberry Pi. Ensure the connection is correct to avoid damage to the touch function.

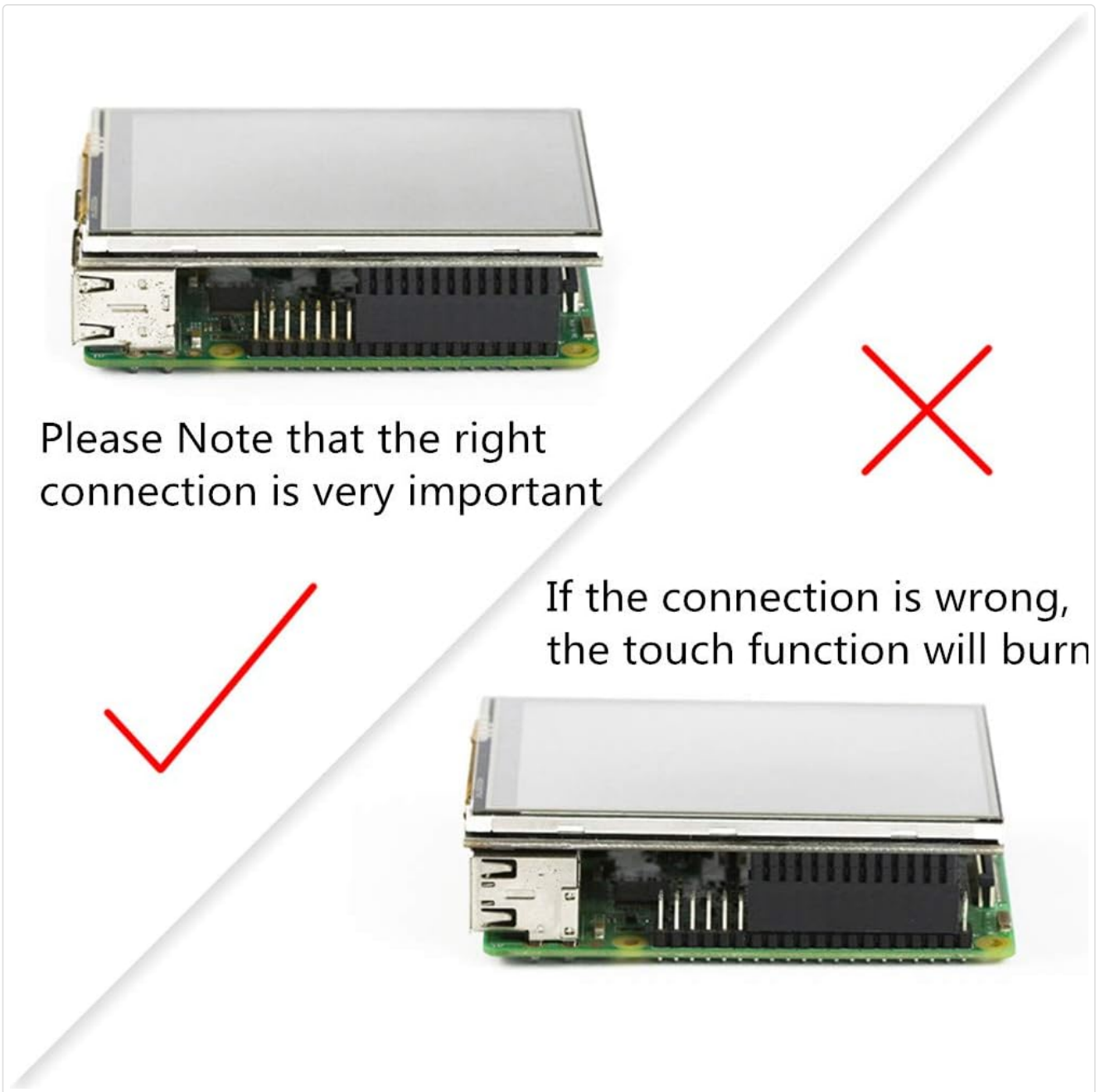
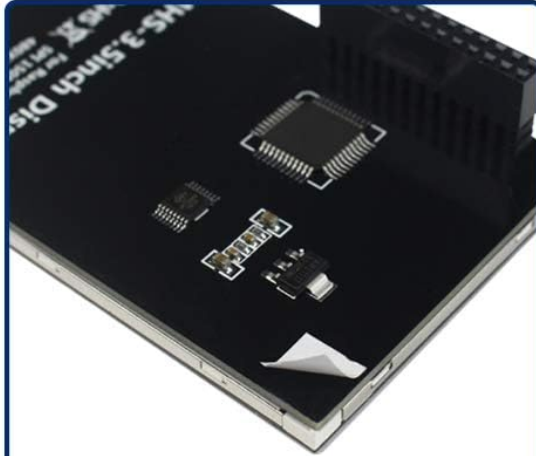


Image: Diagram showing the correct way to connect the 3.5-inch display to the Raspberry Pi's GPIO pins, and a warning against incorrect connection.

- 3. Install Raspberry Pi and Screen into Case:** Place the assembled Raspberry Pi and screen into the bottom part of the protective case. Use the provided screws and white nylon columns to secure the components and ensure stability. The white nylon column helps support the screen's balance.

please stick the Nylon column by yourself to support the screen



step: 1



step: 2



step: 3



step: 4

Image: Step-by-step visual guide for assembling the Raspberry Pi, 3.5-inch display, and protective case, including placement of nylon columns.

4. **Secure the Case:** Close the case by attaching the top cover. The split design allows for easy installation.



Image: Fully assembled Raspberry Pi with the 3.5-inch touch screen integrated into its protective case, shown with a stylus.

4.2. Driver Installation

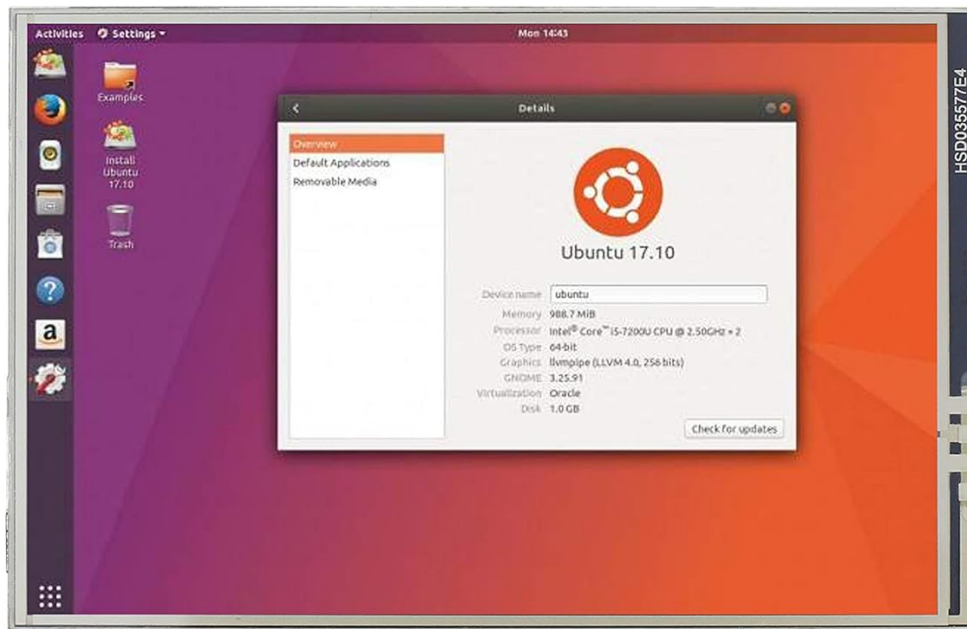
The 3.5-inch display requires specific drivers to function correctly with your Raspberry Pi operating system. It is recommended to use a pre-installed driver system image file for ease of setup.

1. **Prepare SD Card:** Format your SD card using a reliable SD card formatter tool.

Your browser does not support the video tag.

Video: Demonstrates how to format an SD card and burn an official system image using Win32DiskImager. This is a crucial step for preparing the Raspberry Pi's operating system with the necessary display drivers.

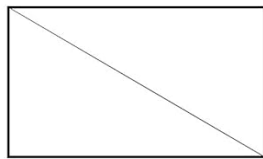
2. **Download System Image:** Obtain the appropriate system image file with pre-installed drivers for your chosen operating system (Raspbian, Ubuntu, Kali, RetroPie) from the manufacturer's website or provided resources.



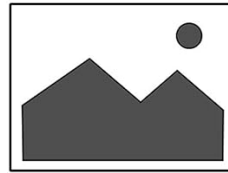
(Raspbian / Kali / RetroPie / Ubuntu)



Touch screen



3.5 inch



Resolution:480×320



support for two simultaneous displays

Image: The 3.5-inch display showing the Ubuntu 17.10 desktop environment, demonstrating system compatibility.

3. **Burn Image to SD Card:** Use a disk imaging tool (e.g., Win32DiskImager, BalenaEtcher) to write the downloaded system image to your formatted SD card.

4. **Initial Boot and Driver Installation (if not pre-installed):**

- Insert the prepared SD card into your Raspberry Pi.
- Connect a standard HDMI screen, keyboard, mouse, and internet to your Raspberry Pi.
- Start the Raspberry Pi. After logging into the Raspbian system, open the terminal.
- Execute the following commands to install the 3.5-inch screen driver:

```
sudo rm -rf LCD-showgit clone https://github.com/goodtft/LCD-show.git -R 755 LCD-showcd LCD-showsudo ./MHS35-show
```

- After the system reboots, cut off the power, then connect the 3.5-inch screen. Start the Raspberry Pi, and the screen should begin working.

5. OPERATING INSTRUCTIONS

Once the screen is installed and drivers are configured, you can interact with your Raspberry Pi directly through the 3.5-inch touch display.

- **Touch Control:** The display features resistive touch control. Use the provided stylus or your fingertip for precise interaction.
- **Resolution:** The physical resolution is 320x480 pixels. The FBCP software drive supports double screen display and allows software resolution adjustment for zooming.
- **Refresh Rate:** The screen supports a 125MHz SPI signal input, providing a stable, flicker-free display with a refresh rate of approximately 50fps, suitable for video playback and gaming.

- **System Compatibility:** The display is compatible with Raspbian, Ubuntu, Kali, and RetroPie systems.
- **Gaming:** The screen can be used for retro gaming with compatible systems like RetroPie.



Image: The 3.5-inch display showing a retro video game being played with an external game controller, highlighting its use for gaming.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the screen. Avoid abrasive cleaners or solvents.
- **Storage:** When not in use, store the device in a cool, dry place away from direct sunlight.
- **Heat Management:** Ensure proper ventilation, especially when using the Raspberry Pi for extended periods, to prevent overheating. The included heat sinks assist in thermal management.

7. TROUBLESHOOTING

7.1. Screen Flickering or No Display

- **Driver Installation:** Ensure the correct drivers are installed for your specific Raspberry Pi model and OS version. Refer to Section 4.2 for driver installation steps.
- **GPIO Connection:** Verify that the display is correctly and securely connected to the Raspberry Pi's GPIO pins. An incorrect connection can prevent the screen from functioning or damage the touch feature.
- **Power Supply:** Ensure the Raspberry Pi is receiving adequate power.
- **HDMI Conflict:** If using both the 3.5-inch screen and an external HDMI monitor, ensure the display settings are configured correctly. The 3.5-inch screen's resolution is 320x480 pixels. If connected directly to an HDMI monitor, the resolution will be the same. To

return to high resolution on an HDMI monitor, use the command: `cd LCD-show/ && sudo ./LCD-hdmi .`

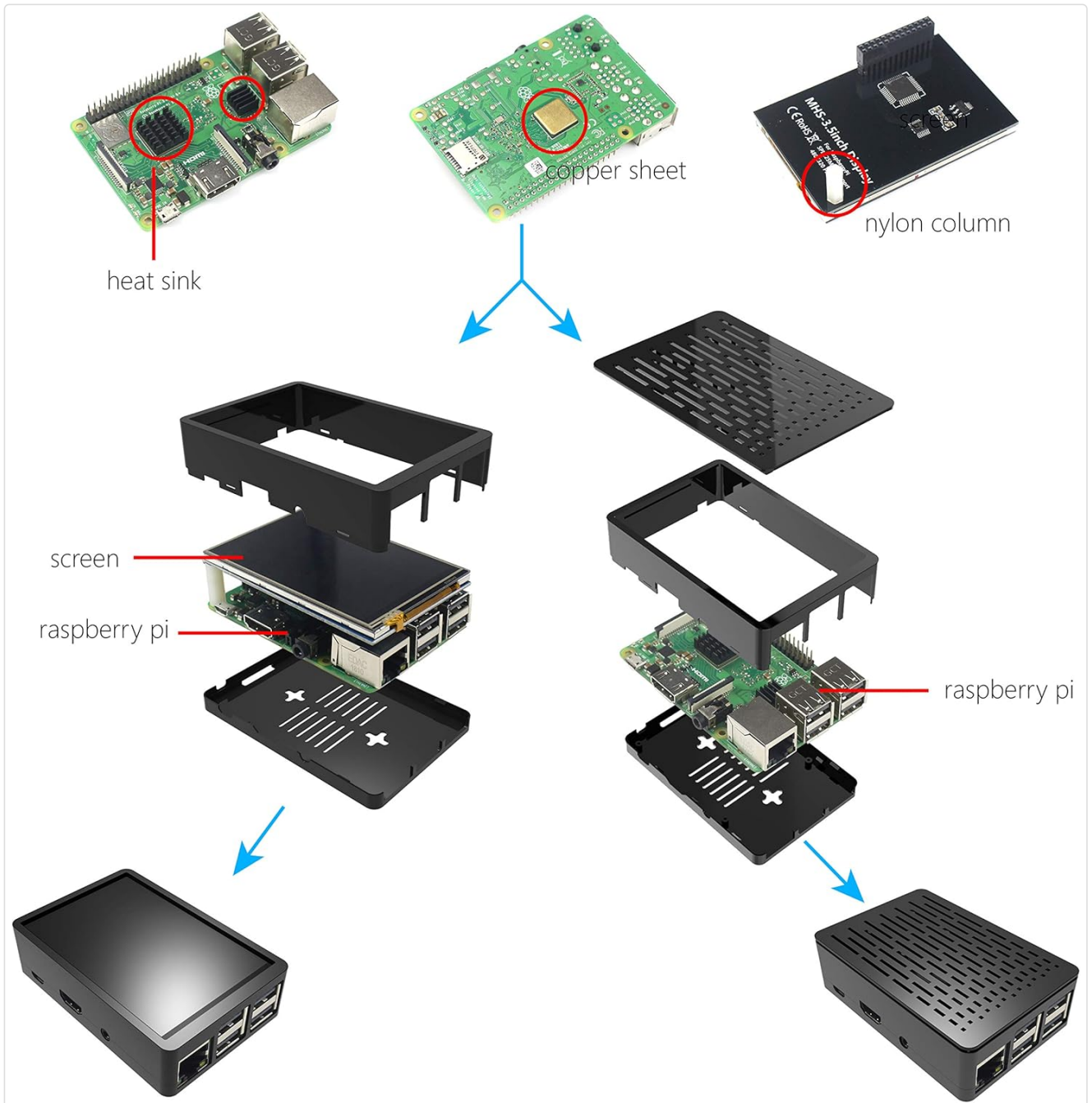


Image: Illustrates the resolution difference when using the 3.5-inch display versus an external HDMI monitor, and provides a command to switch back to HDMI output.

7.2. Touch Function Not Working

- **Connection:** Recheck the physical connection of the display to the Raspberry Pi's GPIO pins. An improper connection can disable the touch function.
- **Driver:** Confirm that the touch drivers are correctly installed and loaded.

7.3. System Compatibility Issues

- **64-bit Kali Linux:** Some users have reported issues with 64-bit Kali Linux. It may be necessary to use a 32-bit OS version or specific drivers found on community forums (e.g., GitHub) for Kali.
- **Newer OS Versions:** Drivers might not be compatible with the absolute latest OS versions (e.g., Raspberry Pi OS Bookworm). Consider using a "legacy" OS image (like Bullseye) if encountering issues.

8. SPECIFICATIONS

Feature	Detail
Screen Size	3.5 Inches
Resolution	320 x 480 Pixels
Aspect Ratio	4:3
Screen Surface Description	Glossy
Display Type	TFT LCD
Touch Control	Resistive
Interface	SPI (up to 125MHz signal input)
Product Dimensions	3.3 x 2 x 1.57 inches
Item Weight	5.6 ounces
Manufacturer	JUN-ELECTRON
Model Number	8541613031

9. WARRANTY AND SUPPORT

This product is subject to Amazon's standard return policy, which typically allows for returns or replacements within 30 days of receipt. For specific warranty details or technical support, please refer to the manufacturer's official website or contact JUN-ELECTRON directly. For additional resources and tutorials, you may visit the [JUN-ELECTRON Store on Amazon](#).