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## DIYmall PiTFT

# DIYmall Mini PiTFT 1.3-inch LCD Display Instruction Manual

Model: PiTFT | Brand: DIYmall

## 1. PRODUCT OVERVIEW

The DIYmall Mini PiTFT 1.3-inch LCD Display is a compact 240x240 pixel full-color TFT add-on designed for Raspberry Pi computers. It utilizes the SPI interface for fast communication and features an ST7789 driver, offering excellent visibility from various angles. This display is ideal for projects requiring a small, integrated screen, leaving many GPIO pins available for other components.

This package includes two Mini PiTFT 1.3-inch LCD Displays.

**The Mini Pi TFT 1.3 " - 240x240 Color TFT Add-on for Raspberry Pi is your little TFT pal, ready to snap onto any and all Raspberry Pi , to give you a little display.**



Image: The Mini PiTFT 1.3-inch LCD Display shown connected to a Raspberry Pi Zero, demonstrating its compact size and integration.

## 2. SETUP INSTRUCTIONS

To set up your Mini PiTFT display, follow these general steps. Detailed instructions and necessary software drivers are available in the official usage guide.

1. **Hardware Connection:** Carefully align the Mini PiTFT display with the GPIO pins on your Raspberry Pi. Ensure all pins are correctly seated to prevent damage.
2. **Software Installation:** Access the official usage guide for specific driver installation instructions. This typically involves enabling SPI on your Raspberry Pi and installing the appropriate libraries for the ST7789 driver.
3. **Configuration:** Follow the guide to configure the display settings, such as rotation and backlight control, if applicable.

**Important:** For comprehensive and up-to-date setup instructions, including code examples and troubleshooting tips, please refer to the official documentation:

<https://github.com/IOT-MCU/Mini-PiTFT-for-Raspberry-Pi/wiki/Usage>

The TFT uses only the SPI port so its very fast, and we leave plenty of pins remaining available for buttons, LEDs, sensors, etc. It's also nice and compact so it will fit into any case.

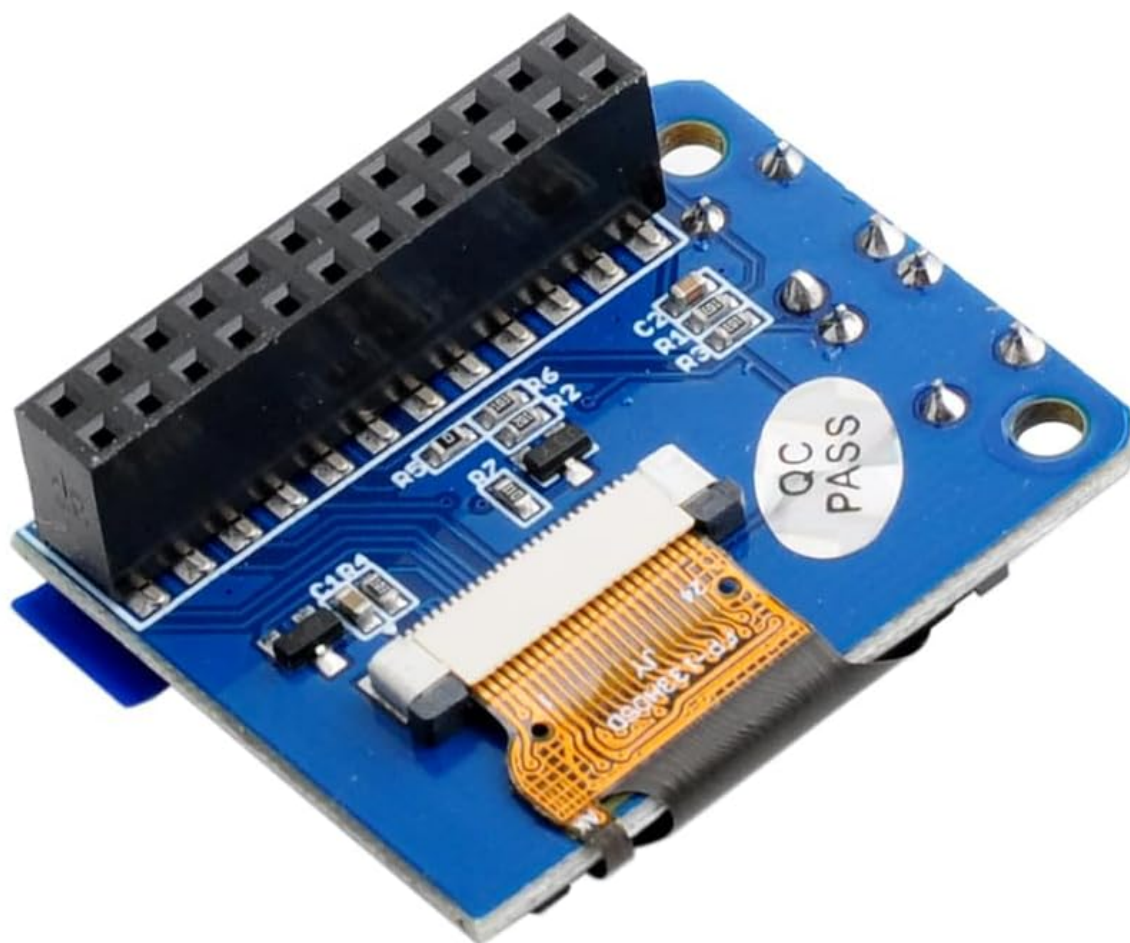


Image: Rear view of the Mini PiTFT display, highlighting the header pins for connection to a Raspberry Pi.

### 3. OPERATING INSTRUCTIONS

Once the display is correctly set up and drivers are installed, you can begin programming your Raspberry Pi to utilize the Mini PiTFT. The display functions as a standard SPI-driven TFT, allowing you to output graphics, text, and other visual information.

- **Displaying Information:** Use the provided software libraries (e.g., Python libraries for ST7789) to draw pixels, lines, shapes, and text on the 240x240 pixel screen.
- **Button Interaction:** The display module includes two buttons (labeled 23 and 24 in some diagrams). These can be programmed as general-purpose input buttons for user interaction within your projects.
- **Power Management:** The display operates at 3.3V, typically supplied directly from the Raspberry Pi's GPIO pins. Ensure your power supply for the Raspberry Pi is adequate for all connected peripherals.

**TFT size : 1.3" diagonal**

**Voltage : 3.3V**

**Interface : SPI**

**Driver: ST7789**

**Color : Full color**

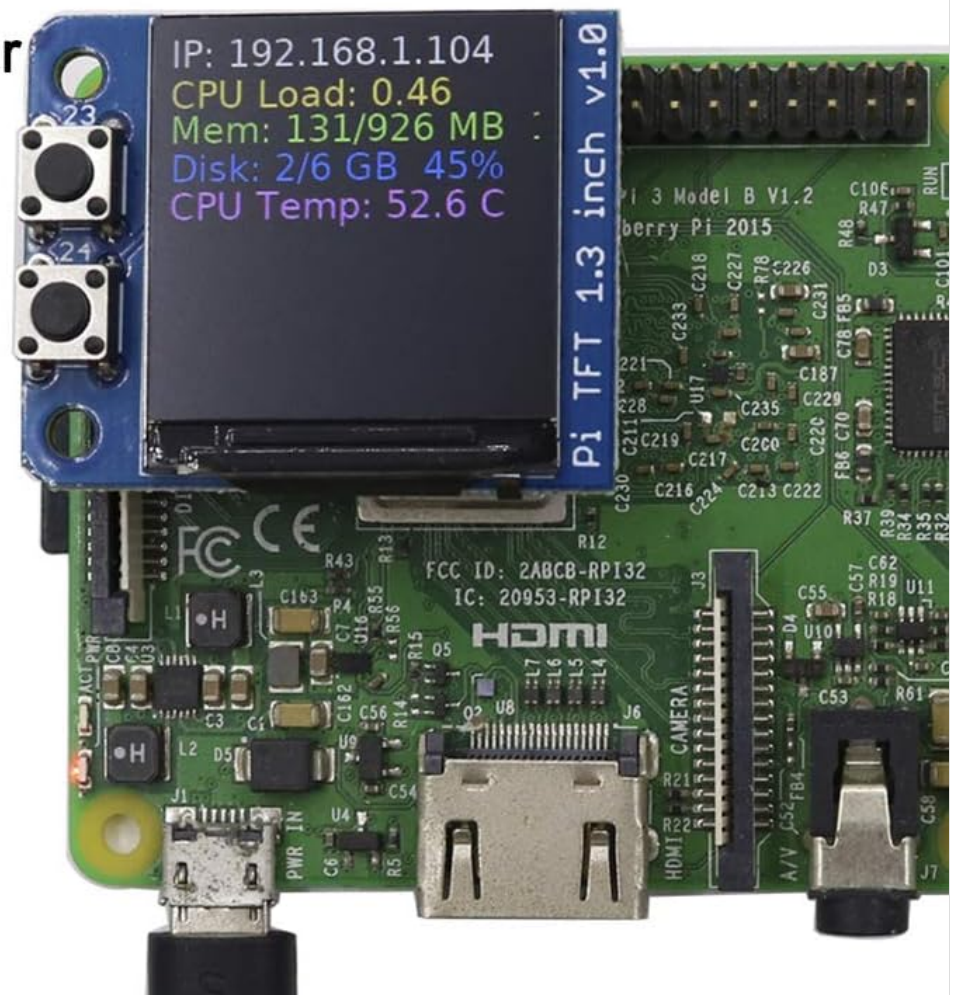


Image: The Mini PiTFT display actively showing system information such as IP address, CPU load, memory usage, disk space, and CPU temperature, demonstrating its operational capabilities.

Your browser does not support the video tag.

Video: A demonstration of the 1.3-inch Mini PiTFT LCD display in operation, showcasing its visual output and clarity.

## 4. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Mini PiTFT display.

- **Cleaning:** Use a soft, dry, anti-static cloth to gently wipe the screen surface. Avoid abrasive materials or chemical cleaners, which can damage the display.
- **Storage:** When not in use, store the display in a cool, dry environment, away from direct sunlight and extreme temperatures. Protect it from dust and physical impact.
- **Handling:** Always handle the display by its edges to avoid touching the screen or the delicate flex cable.

## 5. TROUBLESHOOTING

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If you encounter issues with your Mini PiTFT display, consider the following troubleshooting steps:

- **No Display/Blank Screen:**

- Verify that the display is correctly seated on the Raspberry Pi's GPIO pins.
- Check your wiring and connections, especially the flex cable.
- Ensure the SPI interface is enabled in your Raspberry Pi's configuration (e.g.,`raspi-config`).
- Confirm that the display drivers and libraries are correctly installed and configured according to the official usage guide.
- Check the power supply to your Raspberry Pi.

- **Incorrect Colors/Artifacts:**

- Re-check driver installation and configuration. Incorrect driver settings can lead to display anomalies.
- Ensure the display's flex cable is securely connected and not damaged.

- **Buttons Not Responding:**

- Verify that the buttons are correctly wired and that your software is configured to read their input.
- Consult the official usage guide for specific GPIO pin assignments for the buttons.

For further assistance, refer to the detailed troubleshooting sections in the [official usage guide](#) or contact DIYmall support.

## 6. SPECIFICATIONS

Feature	Detail
Display Size	1.3 inches diagonal
Resolution	240 x 240 pixels
Display Type	IPS TFT, Full Color
Interface	SPI (Serial Peripheral Interface)
Driver IC	ST7789
Operating Voltage	3.3V
Dimensions (LxWxH)	1.51 x 1.21 x 0.59 inches (approx.)
Item Weight	1.06 ounces (approx.)
Compatibility	Raspberry Pi (various models)

## 7. WARRANTY AND SUPPORT

Specific warranty details for the DIYmall Mini PiTFT 1.3-inch LCD Display are not provided within this manual. Please refer to the retailer's purchase terms or contact DIYmall directly for warranty information.

For technical support, driver updates, and additional resources, please visit the official DIYmall website or the GitHub repository linked in the Setup section.

**Manufacturer:** DIYmall

**Official Usage Guide:** <https://github.com/IOT-MCU/Mini-PiTFT-for-Raspberry-Pi/wiki/Usage>

