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› CUQI 3.5 Inch Touchscreen for Raspberry Pi 5, 480 x 320 Pixel 60 FPS Mini Monitor with Stylus and Mini Fan for Raspberry Pi 3/4/5

CUQI RPM-01

CUQI 3.5 Inch Touchscreen Mini Monitor User Manual

Model: RPM-01 | Brand: CUQI

1. INTRODUCTION

This manual provides comprehensive instructions for the setup, operation, and maintenance of your CUQI 3.5-inch Touchscreen Mini Monitor. Designed for compatibility with Raspberry Pi 3, 4, and 5, this compact display offers a 480x320 pixel resolution with a refresh rate of up to 60 frames per second, making it ideal for various projects requiring a small, interactive display.

The package includes a stylus for precise touch input and a mini fan to ensure efficient heat dissipation, maintaining optimal performance for both the screen and your Raspberry Pi.

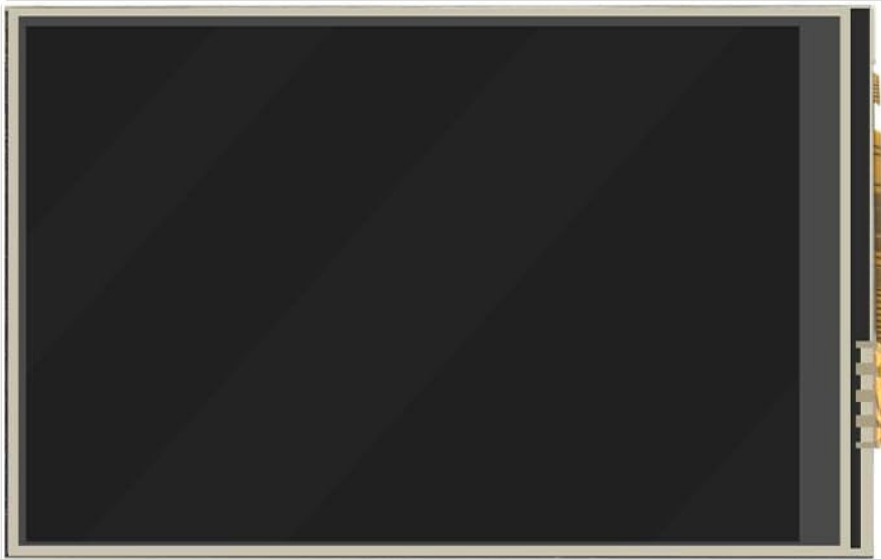


Image 1.1: The CUQI 3.5-inch touchscreen mini monitor connected to a Raspberry Pi, showing its compact design and included stylus.

2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- 1 x CUQI 3.5 Inch Touchscreen
- 1 x Touch Pen (Stylus)
- 1 x Mini Fan
- 4 x Cooling Fan Screws



3.5 Inch Touchscreen



Touch Pen



Mini Fan



Cooling fan Screws

Image 2.1: All components included in the CUQI 3.5 Inch Touchscreen package.

3. SETUP INSTRUCTIONS

Follow these steps to properly set up your CUQI 3.5 Inch Touchscreen with your Raspberry Pi.

3.1 Compatibility

The touchscreen is compatible with Raspberry Pi 3, 4, and 5 models. It is designed to integrate seamlessly with these boards.

Kompatibel mit Raspberry Pi 3/4/5, ist es eine gute Wahl für kleine Raspberry Pi Displays.

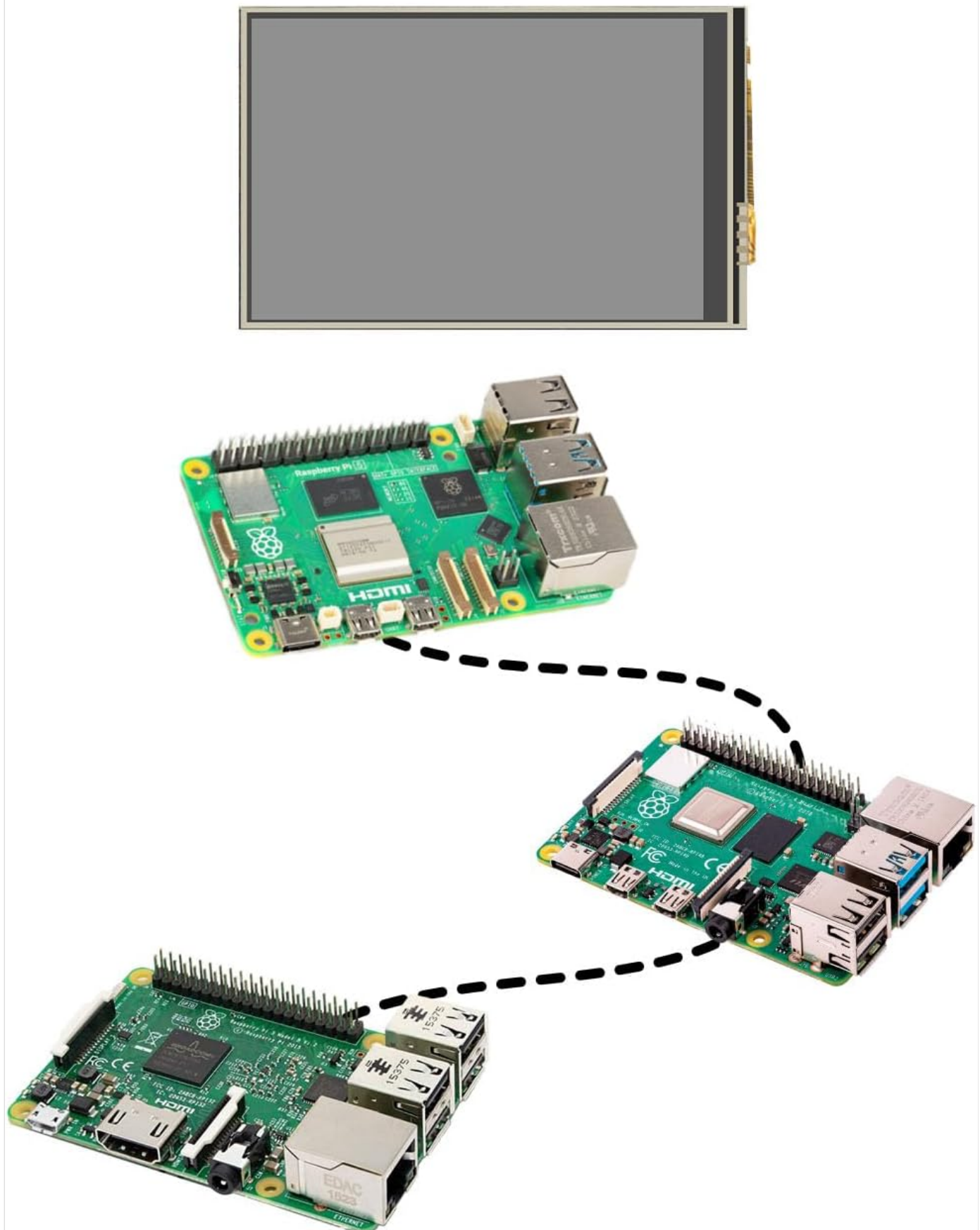


Image 3.1: Visual representation of the touchscreen's compatibility with various Raspberry Pi models.

3.2 Connecting the Touchscreen

The touchscreen connects directly to your Raspberry Pi via its 26-pin SPI connector. It is crucial to connect the Raspberry Pi via the **first connector** on the touchscreen. Incorrect connection can lead to damage to the touch function.

SPI Interface

Please pay attention to where the Raspberry Pi pins are connected to the touch screen interface or you may burn out the touch function.



Image 3.2: Detailed view of the SPI interface, emphasizing the correct pin alignment for connection to avoid damage.

Warning: Ensure the Raspberry Pi is powered off before connecting the screen. Always connect to the first SPI connector to prevent damage to the touch functionality.

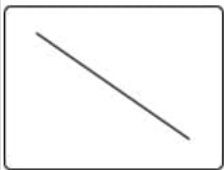
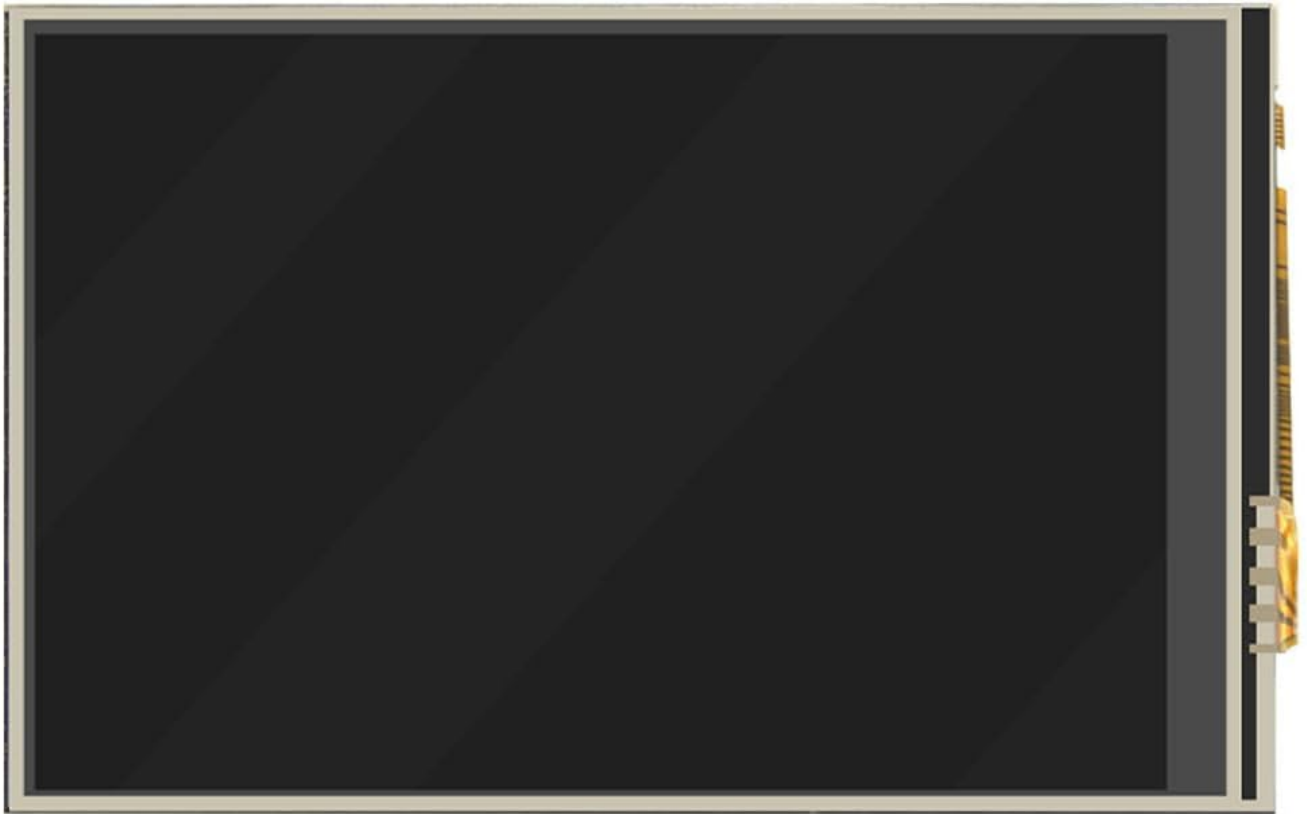
4. OPERATING INSTRUCTIONS

Once the hardware is connected, you will need to install the necessary drivers for the touchscreen to function correctly.

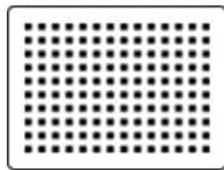
4.1 Driver Installation and System Compatibility

The CUQI 3.5 Inch Touchscreen is compatible with various operating systems, including Raspbian, Ubuntu, Kali, and RetroPie. Free driver installation guides and tutorials are available. For Raspberry Pi 5, currently only Raspbian system is fully supported with readily available drivers. If you plan to use another system with Raspberry Pi 5, please contact CUQI support for assistance.

While the screen supports up to 60FPS, the Raspberry Pi's SPI interface typically supports up to 50FPS. The HDMI port can support 60FPS, but this screen uses SPI.



Size-3.5inch



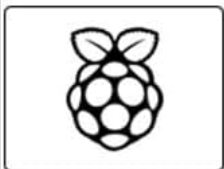
480x320 Resolution



Resistive Touch type



Low power scheme



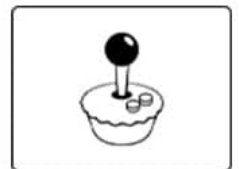
Raspbian



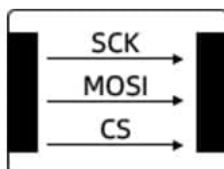
Ubuntu



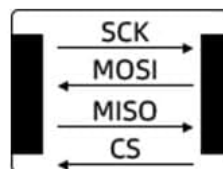
Kali



RetroPie



Display interface



SPI Touch interface

125MHz high speed SPI

Image 4.1: Overview of key features and supported operating systems for the touchscreen.

Refer to the official CUQI support resources or the product page for detailed driver installation steps specific to your chosen operating system.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your touchscreen and Raspberry Pi.

5.1 Heat Dissipation

The touchscreen is designed with space and ports on its back for installing the included mini fan. This fan is crucial for preventing overheating of both the screen and the Raspberry Pi during operation, especially under heavy load.

Der Touchscreen ist mit einem Mini-Lüfter ausgestattet, der dafür sorgt, dass der Bildschirm beim Arbeiten nicht überhitzt.

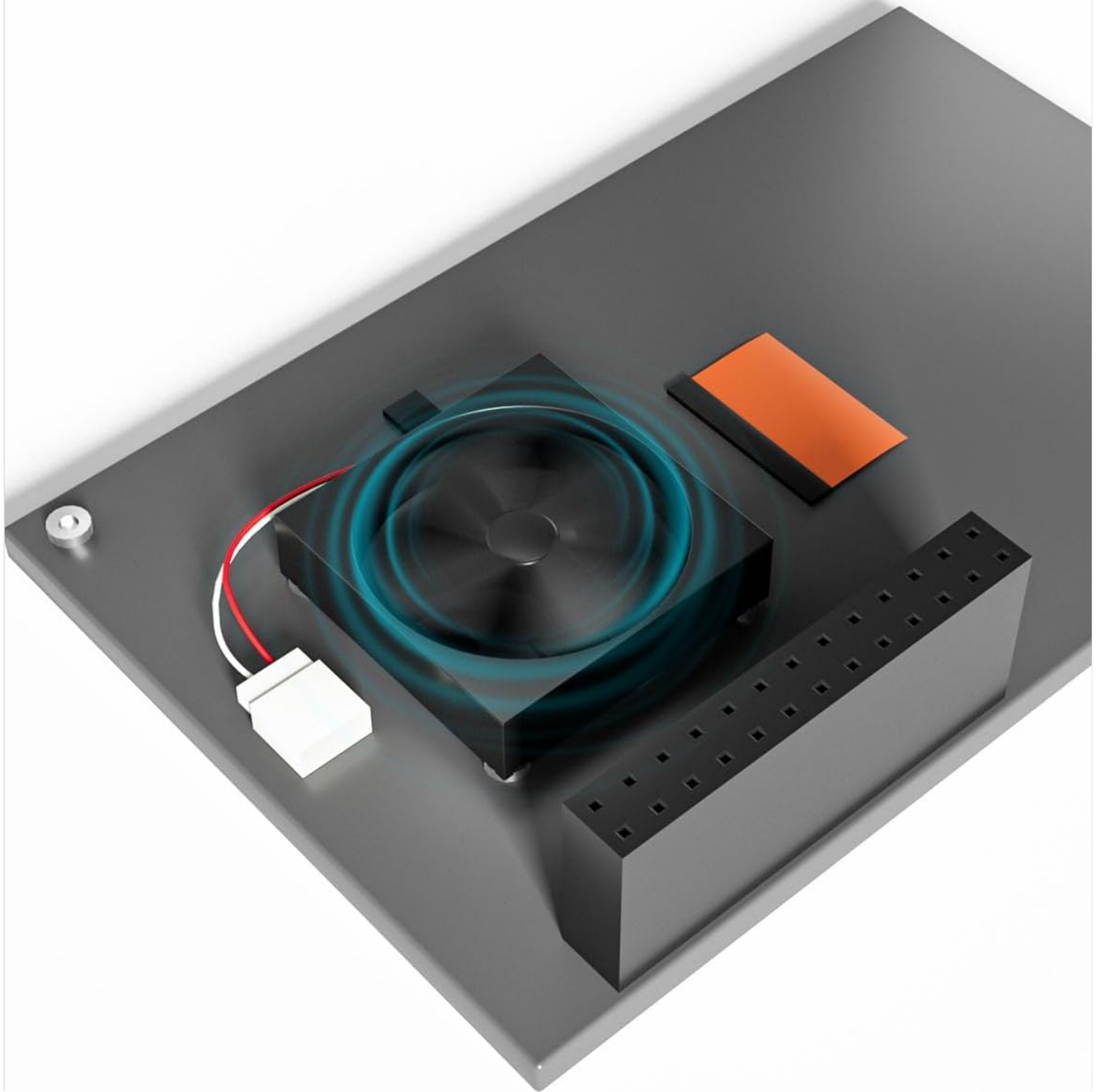


Image 5.1: Illustration of the mini fan's placement to ensure effective cooling.

Ensure the fan is properly installed and free from obstructions to maintain adequate airflow.

6. TROUBLESHOOTING

This section addresses common issues you might encounter and provides solutions.

6.1 Display Issues (Grey Screen, Flickering)

- **Incorrect Driver:** Ensure you have installed the correct drivers for your specific Raspberry Pi model and operating system. Outdated or incorrect drivers can cause display anomalies.
- **Driver Installation:** Some users report that specific OS versions (e.g., newer Bookworm OS) might not work directly, or require specific legacy OS versions (e.g., Raspberry Pi OS (Legacy) : 11 Bullseye) for driver compatibility. Verify the recommended OS version from CUQI's official resources.
- **Connection:** Double-check that the screen is connected to the **first SPI connector** on the Raspberry Pi. Incorrect connection can lead to a non-functional display or touch.
- **Power Supply:** Ensure your Raspberry Pi has a stable and sufficient power supply. Insufficient power can lead to unstable display behavior.

6.2 Touch Function Not Working

- **SPI Connection:** As mentioned in Setup, connecting to the wrong SPI connector can burn out the touch function. If this is the case, the touch function may be permanently damaged.
- **Driver Installation:** Ensure the touch drivers are correctly installed. Display drivers and touch drivers might be separate components of the overall driver package.
- **Stylus Use:** This screen uses a resistive touch type, which typically requires a stylus or firm press for accurate input. Ensure you are using the provided stylus or a similar tool.

6.3 Overheating

- **Fan Installation:** Verify that the mini fan is correctly installed and connected.
- **Airflow:** Ensure there is adequate airflow around the Raspberry Pi and the screen. Avoid enclosing the setup in a confined space without ventilation.

7. SPECIFICATIONS

Feature	Detail
Product Model Number	RPM-01
Screen Size	3.5 Inches
Resolution	480 x 320 Pixels
Aspect Ratio	1.33:1
Refresh Rate	Up to 60 FPS (SPI supports up to 50 FPS)
Touch Type	Resistive Touch
Display Technology	LCD
Interface	26-pin SPI Connector
Compatibility	Raspberry Pi 3, 4, 5
Supported OS	Raspbian, Ubuntu, Kali, RetroPie

Feature	Detail
Power Input	5 Volts (DC)
Product Dimensions	2.17 x 0.24 x 3.35 inches (5.51 x 0.61 x 8.51 cm)
Item Weight	2.89 ounces (81.93 grams)
Manufacturer	CUQI
Country of Origin	China

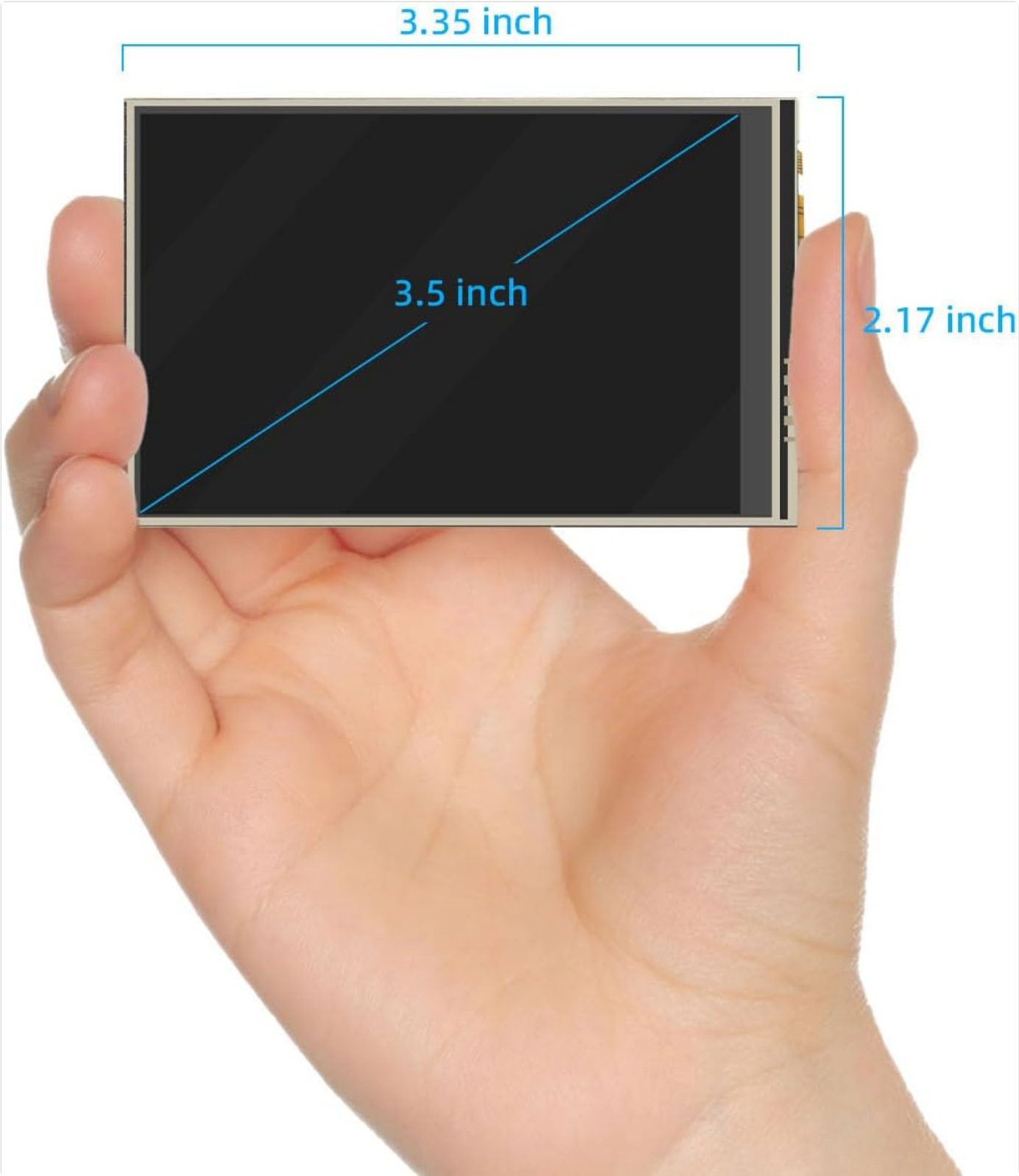


Image 7.1: Physical dimensions of the CUQI 3.5 Inch Touchscreen.

For detailed energy consumption data, please refer to the official EU EPREL database:
<https://eprel.ec.europa.eu/qr/1499518>

8. WARRANTY AND SUPPORT

For warranty information and technical support, please contact CUQI customer service through the retailer where you purchased the product or visit the official CUQI website. Keep your purchase receipt as proof of purchase for any warranty claims.

Manufacturer Contact: GuangzhouCuQiShiPinYouXianGong, YanDulu 42 Hao 704 Fang, GuangZhouShi TianHeQu, GuangDongSheng, 510650, CN. Email: xu_jewelry_uk@hotmail.com

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question