

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

[manuals.plus](#) /

› [Hosyond](#) /

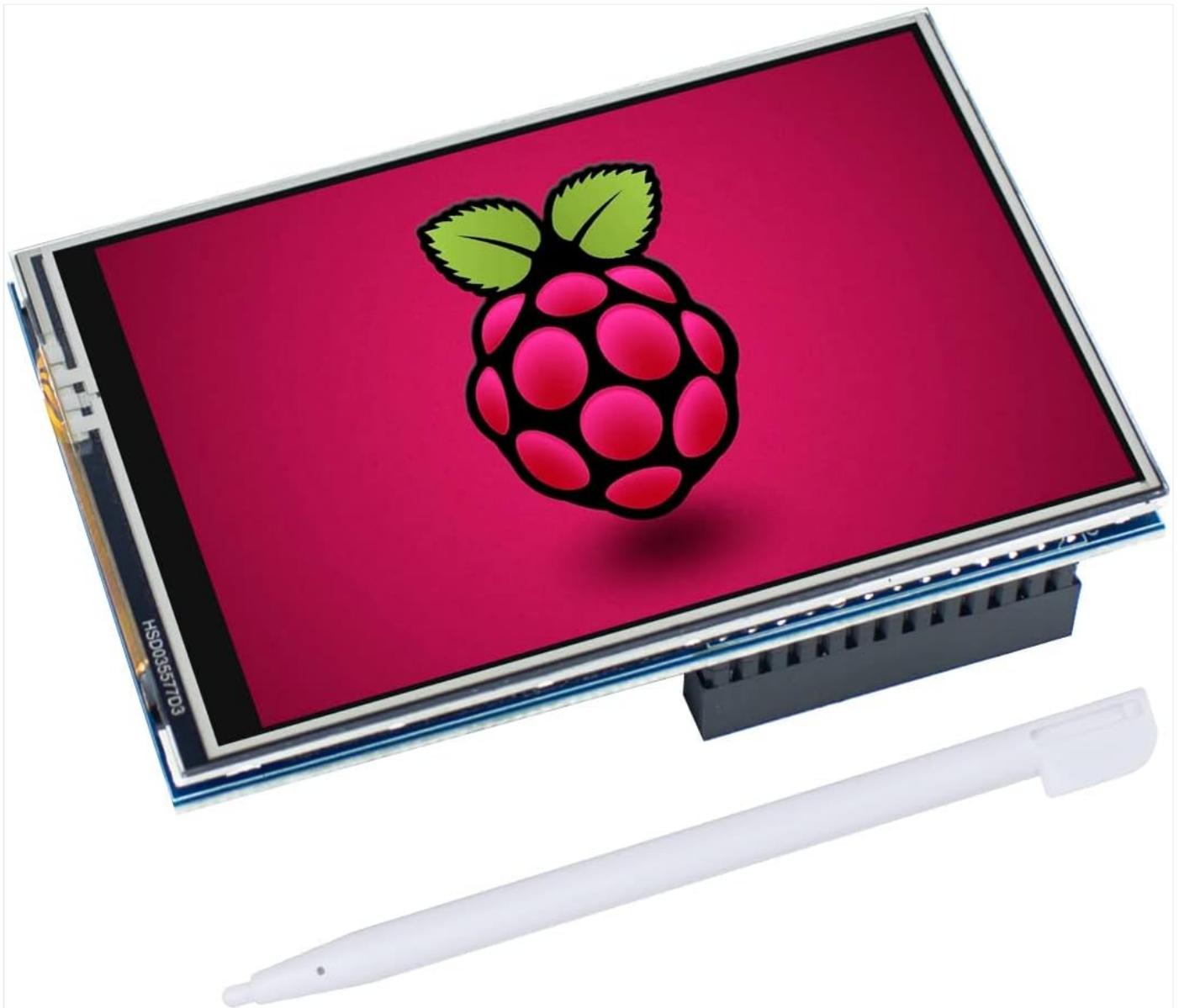
› [Hosyond 3.5-inch 480x320 Touch Screen TFT LCD SPI Display Panel for Raspberry Pi User Manual](#)

Hosyond Hosyond-3.5-480x320

Hosyond 3.5-inch 480x320 Touch Screen TFT LCD SPI Display Panel for Raspberry Pi User Manual

1. PRODUCT OVERVIEW

The Hosyond 3.5-inch TFT LCD resistive touch screen offers a 480x320 resolution, providing a clear display for various Raspberry Pi applications. This display panel is designed for direct connection to Raspberry Pi boards, eliminating the need for an external power supply. It includes a touch pen for easy interaction and is compatible with multiple operating systems, including Raspbian, Ubuntu, and Kali Linux.



The Hosityond 3.5-inch TFT LCD Touch Screen, featuring a 480x320 resolution, is designed for direct connection to Raspberry Pi boards. A white stylus is included for touch input.

2. COMPATIBILITY

This 3.5-inch touch screen is specifically designed for direct plug-and-play compatibility with a wide range of Raspberry Pi models. Supported versions include:

- Raspberry Pi 5
- Raspberry Pi 4B
- Raspberry Pi 3B+
- Raspberry Pi 3
- Raspberry Pi 2
- Raspberry Pi 1 (A, B, A+, B+)
- Raspberry Pi Zero
- Raspberry Pi Zero W

Install OS image with pre-loaded LCD Driver

Warm Tips: If you have difficulty installing the driver, or if you still can't use the display properly after installing the driver, **Please Try our Configured images for tested.**

Just need download(the following link) and write the image into the TF card. DO NOT need any driver installation steps.

MEGA Folder Links	Installation Tutorials, SD Formatter software, Image Burner & OS images
 Raspbian	https://mega.nz/folder/ixQITa7R#EM2uFGwMC8QSU6D4untoGA
 Ubuntu	https://mega.nz/folder/mhw2DCqK#qFiavXCAXOXMqOGjLXrtaw
 Kali Linux Raspberry Pi-32bit	https://mega.nz/folder/nlghUbSK#ZHPxHJCAi8gdoRG0uwC2og

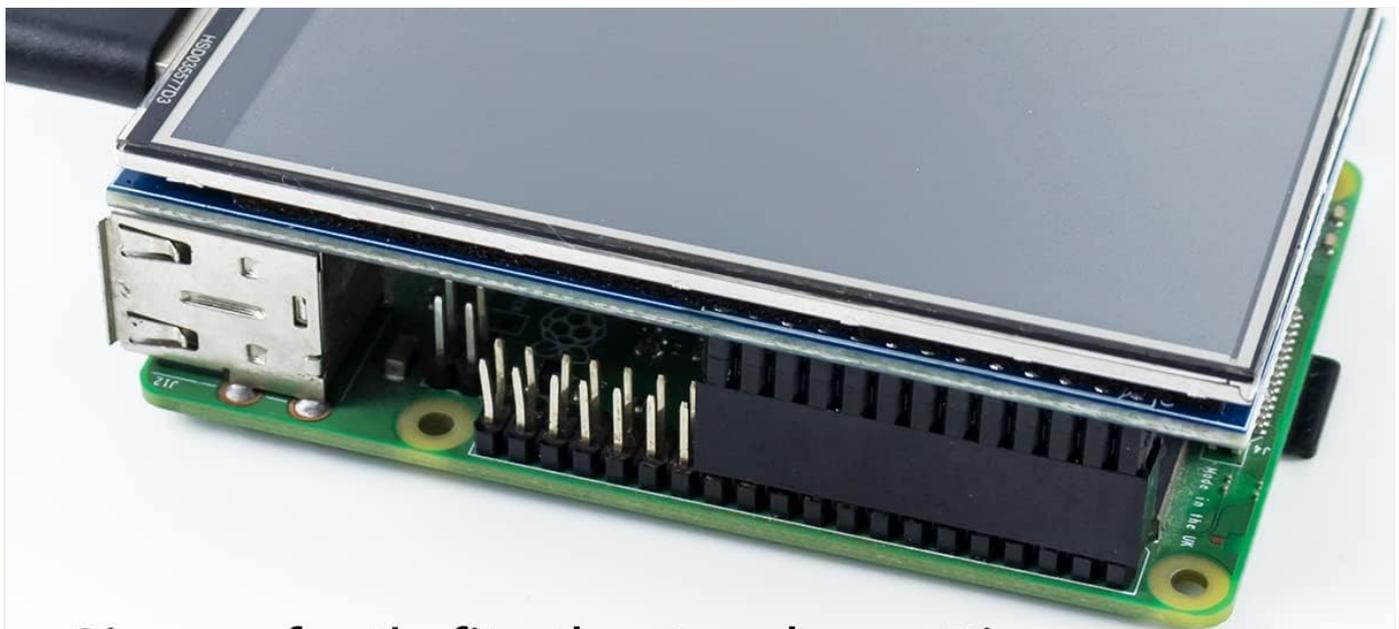
- 1.Download and unzip the OS Image you intend to use
- 2.Download and install Raspberry Pi image burn software
- 3.Use **Win32DiskImager** software to flash the OS Image with pre-loader LCD Driver to the SD card

This image illustrates the direct plug-and-play compatibility of the 3.5-inch display with various Raspberry Pi models, specifically Pi 4/4B, Pi 3B/3B+, Pi 5, and Pi 1 B+.

3. SETUP INSTRUCTIONS

3.1 Hardware Connection

1. Ensure your Raspberry Pi is powered off before connecting the display.
2. Align the 26-pin or 40-pin GPIO header on the display with the corresponding pins on your Raspberry Pi board.
3. Gently press the display onto the Raspberry Pi's GPIO header until it is securely seated. No external power supply is required for the display itself, as it draws power directly from the Raspberry Pi.



Size perfectly fits the Raspberry Pi



The 3.5-inch display is shown mounted directly onto a Raspberry Pi board, illustrating its compact fit and connection via the GPIO pins.

3.2 Software Installation (Driver)

For the display and touch functionality to work correctly, specific drivers must be installed on your Raspberry Pi's operating system. It is highly recommended to use the pre-configured OS images provided by Hosityond to simplify this process.

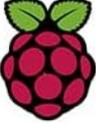
1. **Download Pre-loaded OS Image:** Access the provided links to download the desired operating system image (e.g., Raspbian, Ubuntu, Kali Linux) that includes the pre-installed LCD drivers. These links are typically found in the product documentation or support page.
2. **Prepare SD Card:** Download and install an image burning software (e.g., Raspberry Pi Imager, Win32DiskImager) on your computer.
3. **Flash OS Image:** Use the image burning software to flash the downloaded pre-loaded OS image onto your Raspberry Pi's microSD card.
4. **Insert SD Card:** Insert the prepared microSD card into your Raspberry Pi and power it on. The display should now function correctly.

If you encounter difficulties or prefer manual installation, refer to the detailed driver installation tutorials available from the manufacturer's support resources. Note that manual driver installation can be complex and may require advanced Linux command-line knowledge.

Install OS image with pre-loaded LCD Driver

Warm Tips: If you have difficulty installing the driver, or if you still can't use the display properly after installing the driver, **Please Try our Configured images for tested.**

Just need download(the following link) and write the image into the TF card. DO NOT need any driver installation steps.

MEGA Folder Links	Installation Tutorials, SD Formatter software, Image Burner & OS images
 Raspbian	https://mega.nz/folder/ixQiTa7R#EM2uFGwMC8QSU6D4untoGA
 Ubuntu	https://mega.nz/folder/mhw2DCqK#qFiavXCAXOXMqOGjLXrtaw
 Kali Linux Raspberry Pi-32bit	https://mega.nz/folder/nlghUbSK#ZHPxHJCAi8gdoRG0uwC2og

1. Download and unzip the OS Image you intend to use
2. Download and install Raspberry Pi image burn software
3. Use **Win32DiskImager** software to flash the OS Image with pre-loader LCD Driver to the SD card

This image provides a table with links to pre-configured operating system images (Raspbian, Ubuntu, Kali Linux) that include the necessary LCD drivers. These images simplify the setup process by eliminating manual driver installation.

No External Power Supply Required

- When this screen is used with Raspberry Pi, you must **install the driver and write the code** first, otherwise the screen will only display white.
- It is recommended to use a power supply **above 5V 2.5A**, otherwise it may fail to start and the screen will only display white.



The display is shown in operation, connected to a Raspberry Pi, displaying a desktop environment. A hand is using the included stylus to interact with the touch screen.

4. OPERATING INSTRUCTIONS

Once the display and drivers are successfully installed, the 3.5-inch screen will function as your primary or secondary display for the Raspberry Pi. The resistive touch screen allows for direct interaction with the graphical user interface (GUI).

- **Touch Input:** Use your finger or the provided touch pen to navigate menus, select icons, and interact with applications. The touch pen offers greater precision for smaller elements.
- **Display Orientation:** Depending on your driver configuration, the display orientation may be adjusted through software settings within your Raspberry Pi's operating system.



This image depicts the 3.5-inch touch screen displaying a menu, with a stylus being used to interact with the interface, demonstrating its touch functionality.

5. SPECIFICATIONS

Detailed technical specifications for the Hosyond 3.5-inch TFT LCD SPI Display Panel:

3.5 inch Raspberry Pi Touch Screen

LCD Type	TFT
Active Area	48.96x73.44(mm)
Module size	85.42*55.60(mm)
Resolution	320*480 (Pixel)
Driver IC	ILI9486
Backlight & Colors	LED & 65536 Colors
Touch Screen Type	Resistive
Backlight Current	120ma
Power Dissipation	0.13A*5V
Working Temperature	-20~60 degree

This table provides comprehensive technical specifications for the 3.5-inch Raspberry Pi touch screen, covering aspects such as LCD type (TFT), active display area, module size, resolution (320x480 pixels), driver IC (ILI9486), backlight type, touch screen type (resistive), and operating temperature range.

General Specifications

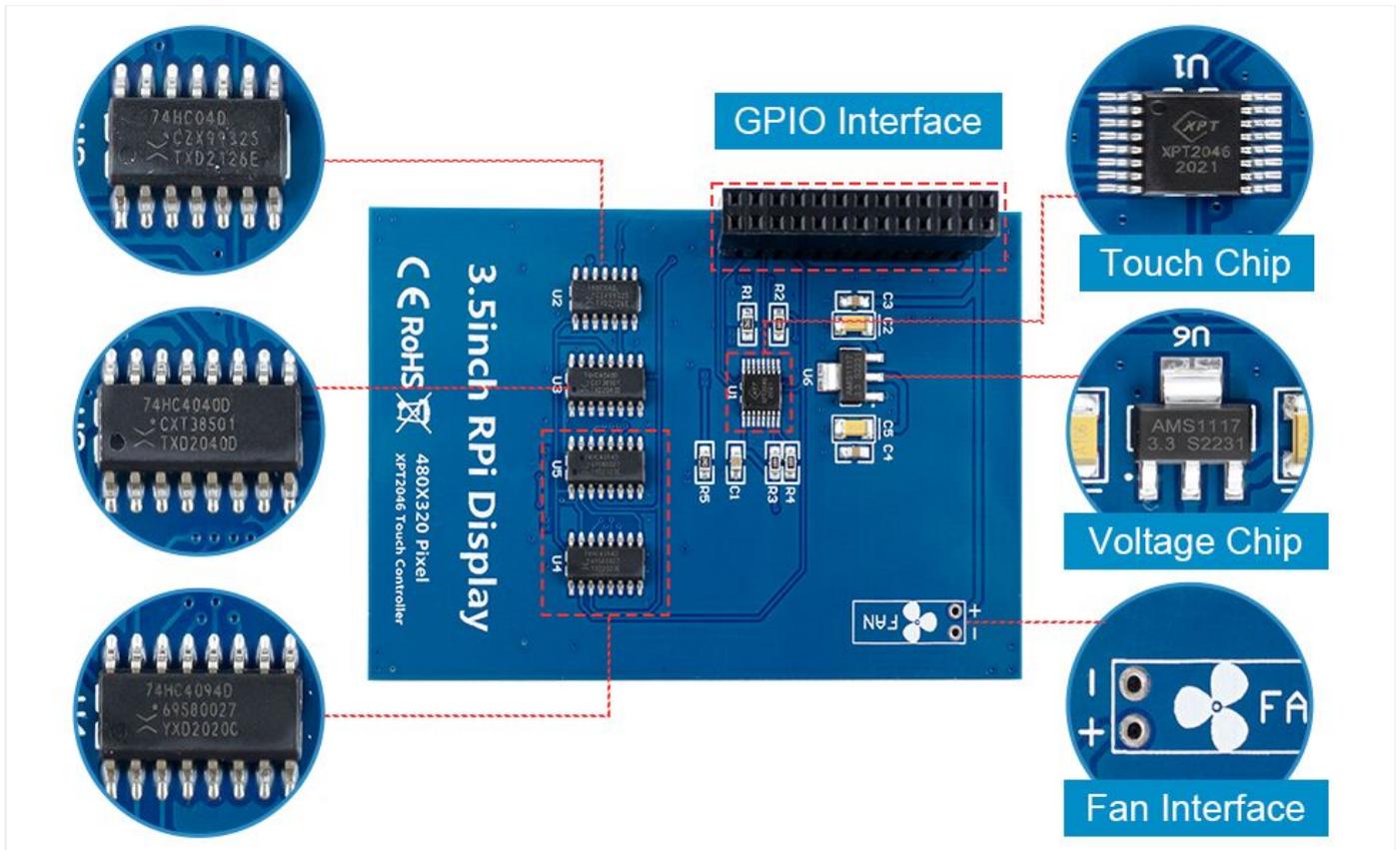
Feature	Value
Product Dimensions	1.34 x 1.34 x 4.61 inches
Item Weight	2.46 ounces
Manufacturer	Hosyond
Item Model Number	Hosyond-3.5-480x320
Standing Screen Display Size	3.5 Inches
Aspect Ratio	16:9
Voltage	5 Volts
Resolution	480 x 320 pixels
Screen Surface Description	Glossy

5.1 Pinout and Interfaces

Interfaces & Description

Description	Pin	NO.	NO.	Pin	Description
Power input(5V)	5V	2	1	3.3V	NC
Power input(5V)	5V	4	3	SDA	NC
Power GND	GND	6	5	SCL	NC
NC	TX	8	7	P7	NC
NC	RX	10	9	GND	Power GND
NC	P1	12	11	PO	NC
Pwoer GND	GND	14	13	P2	NC
NC	P4	16	15	P3	NC
NC	P5	18	17	3.3V	NC
Power GND	GND	20	19	MI	TP SPI Bus input(MOSI)
TP Interrupt	IRQ	22	21	MO	TP SPI Bus output(MISO)
NC	CEO	24	23	SCK	TP SPI Bus Clock(SCLK)
TP Chip Sselect	TCS	26	25	GND	Power GND

A detailed pinout diagram illustrating the various interfaces and their descriptions on the 3.5-inch display, including power inputs, ground connections, and SPI bus pins for data transfer.



A detailed diagram of the display's circuit board, identifying critical components like the GPIO interface for connection, the touch chip, voltage regulation chip, and an optional fan interface.

6. TROUBLESHOOTING

This section addresses common issues you might encounter during the setup and operation of your Hosyond 3.5-inch display.

- **Display shows only white or no image:**

- Ensure the display is securely connected to the Raspberry Pi's GPIO pins.
- Verify that the display drivers are correctly installed. Using the pre-loaded OS images is the most reliable method.
- Check your Raspberry Pi's power supply. A power supply above 5V 2.5A is recommended to ensure stable operation for both the Pi and the display.

- **Touch functionality is not working:**

- Confirm that the correct touch drivers are installed as part of the display driver package.
- Ensure the display is firmly seated on the GPIO pins, as loose connections can affect touch input.
- Calibrate the touch screen if your operating system provides this option.

- **Graphical User Interface (GUI) issues after driver installation:**

- If the GUI becomes unresponsive or fails to start after driver installation, it may indicate a driver conflict or incorrect installation. It is often best to re-flash the SD card with a fresh, pre-loaded OS image.
- Avoid mixing driver installation methods. Stick to either the pre-loaded images or a single, verified manual installation guide.

- **Low frame rate or video artifacts:**

- Due to the SPI connection, the display's refresh rate may be limited. This is a characteristic of the SPI interface and not a defect.
- Optimize your Raspberry Pi's software settings for display performance if possible.

7. MAINTENANCE

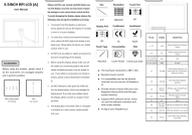
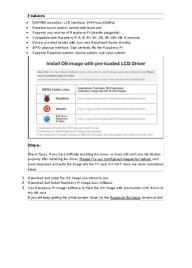
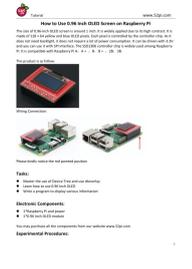
To ensure the longevity and optimal performance of your Hosyond 3.5-inch display, follow these maintenance guidelines:

- **Cleaning:** Use a soft, lint-free cloth slightly dampened with water or a screen-cleaning solution to clean the display surface. Avoid abrasive materials or harsh chemicals.
- **Handling:** Handle the display by its edges to avoid touching the screen surface or damaging the electronic components on the back.
- **Storage:** When not in use, store the display in a dry, dust-free environment, preferably in its original packaging or an anti-static bag.
- **Power:** Always power down your Raspberry Pi before connecting or disconnecting the display to prevent electrical damage.

8. WARRANTY AND SUPPORT

Hosyond provides technical support for this product. If you encounter any problems or require assistance, please contact Hosyond customer service through the platform where the product was purchased. Specific warranty details are subject to the terms and conditions provided at the time of purchase.



	<p>Waveshare 3.5-inch RPi LCD (A) User Manual: Setup and Specifications</p> <p>Comprehensive user manual for the Waveshare 3.5-inch RPi LCD (A) display module. Covers specifications, installation, connection to Raspberry Pi, and troubleshooting.</p>
	<p>AOKIN 3.5-inch Raspberry Pi Touch Screen Display - Features and Installation</p> <p>Detailed guide to the AOKIN 3.5-inch Raspberry Pi TFT touch screen display, covering features, compatibility with Raspberry Pi models, and step-by-step installation instructions for the OS image.</p>
	<p>Adafruit PiTFT 3.5" Touch Screen for Raspberry Pi - Installation and Usage Guide</p> <p>Comprehensive guide to the Adafruit PiTFT 3.5" Touch Screen for Raspberry Pi. This 480x320 resolution display with resistive touch connects via SPI to Raspberry Pi models A, B, and B+. Covers easy installation, configuration, touchscreen calibration, image/video playback, Pygame integration, and troubleshooting. Enhance your Raspberry Pi projects with this interactive display.</p>
	<p>Waveshare Pico-ResTouch-LCD-3.5: 3.5-inch SPI Touch Display Module for Raspberry Pi Pico</p> <p>Detailed specifications, features, pinout, and hardware connection guide for the Waveshare Pico-ResTouch-LCD-3.5, a 3.5-inch IPS touch display module with XPT2046 controller and ILI9488 driver for Raspberry Pi Pico.</p>
	<p>MSP3525 & MSP3526 3.5-inch IPS TFT SPI Display Module User Manual</p> <p>Comprehensive user manual for the LCDWIKI MSP3525 and MSP3526 3.5-inch IPS TFT SPI Display Module, covering resource description, interface details, working principles, hardware circuits, example program usage, and common tool software.</p>
	<p>Guide: Using 0.96 Inch OLED Screen with Raspberry Pi - 52Pi Tutorial</p> <p>Comprehensive tutorial from 52Pi on how to connect and use a 0.96-inch SSD1306 OLED display with various Raspberry Pi models. Covers wiring, configuration, and running demo programs.</p>