

Aclorol YC5M2811neon12VUS

Aclorol WS2811 5M Addressable LED Neon Rope Light Instruction Manual

MODEL: YC5M2811NEON12VUS

1. Introduction

Thank you for choosing the Aclorol WS2811 5M Addressable LED Neon Rope Light. This product is designed to provide versatile and dynamic lighting effects for various applications. Its flexible, waterproof design and addressable LEDs allow for custom color patterns and installations. This manual provides essential information for the safe and effective use of your LED neon rope light.

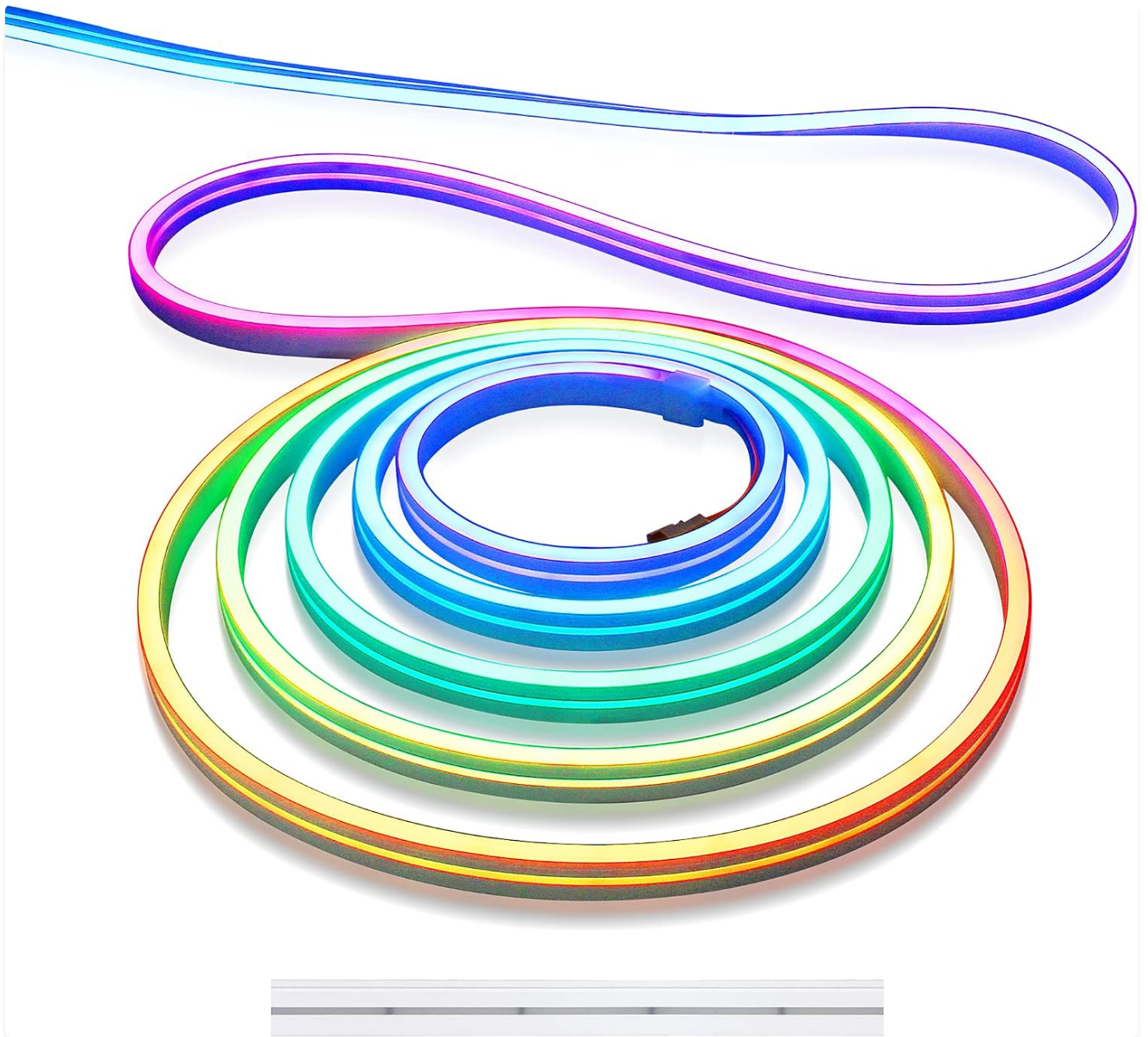


Image 1.1: The Aclorol WS2811 5M Addressable LED Neon Rope Light, coiled and illuminated with a vibrant spectrum of colors.

2. Safety Information

- Ensure the power supply voltage matches the product's requirements (DC12V).
- Do not connect the LED strip directly to AC power. A compatible DC12V power adapter is required.
- This product is IP65 waterproof, suitable for outdoor use where it may be exposed to rain. **It is not designed for submersion in water.**
- Avoid bending the strip sharply or applying excessive force, which may damage internal components.
- Installation should be performed by individuals familiar with low-voltage electrical connections.
- Keep out of reach of children.

3. Package Contents

The package includes the following items:

- 1x Aclorol 5M WS2811 LED Neon Strip Light

Note: A DC12V power supply and a compatible LED controller are **not included** and must be purchased separately for

operation.

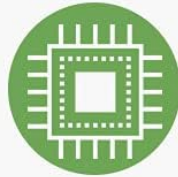
4. Product Features

- **Flexible Neon Design:** Features a thick, flexible silicone sleeve, allowing for easy bending and shaping without compromising light quality.
- **Addressable LEDs:** Each WS2811 integrated circuit (IC) controls 6 LEDs, enabling individual pixel control for dynamic and complex lighting effects. The 5-meter strip contains 540pcs 3838SMD LEDs, with 90 addressable sections (pixels).
- **Dynamic Color Capabilities:** Supports 256 brightness levels and full 24-bit color display, offering a wide range of colors and customizable animations such as gradual change, strobing, rainbow, fading, and breathing effects.
- **Connectable Design:** Equipped with 3-pin JST-SM connectors and separate power/ground wires on both ends for easy extension or shortening.
- **Waterproof Rating:** IP65 rated, providing protection against dust and water splashes, suitable for various indoor and outdoor applications (not for underwater use).
- **Wide Compatibility:** Compatible with various programmable controllers including T-1000S, K1000C, and APP controllers like SP106E, SP105E, SP601E, SP107E, and SP501E.

12V WS2811 LED Neon Light Strip



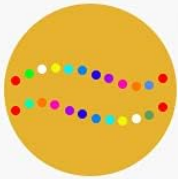
Programmable LEDs



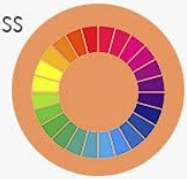
6-LED
Addressable



256 Level Brightness



Dynamic Color Display



16+ Million Full Colors



To let it work, you need 12V power supply and controller, which isn't included in the package.

Image 4.1: Key features of the Aclorol WS2811 LED Neon Light Strip.



**Two Sides
Emitting**



**Extendable
Design**



**Flexible LED
light strip**

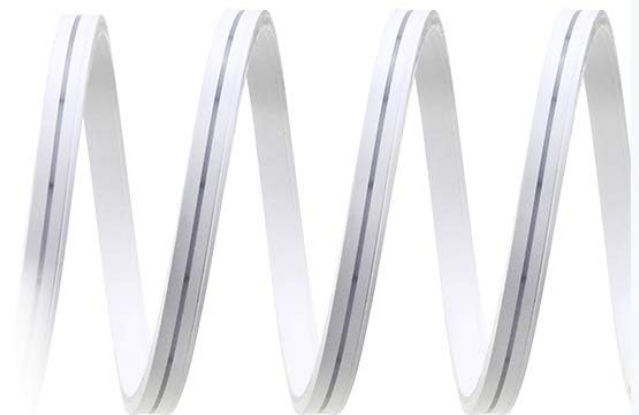


Image 4.2: Visual representation of the two-sided light emission, extendable connectors, and flexibility.

IP65 Waterproof

- ✓ Protected by silicone coating
- ✓ Can be use outdoor .(Not underwater)



Image 4.3: The LED strip demonstrating its IP65 waterproof capability.

5. Setup

Follow these steps to set up your Aclorol LED Neon Rope Light:

1. **Prepare Components:** Ensure you have a compatible DC12V power supply and an addressable LED controller (e.g., WS2811 compatible controller).

2. **Connect Power:** Connect the power wires (red for +12V, black for GND) from the LED strip to your DC12V power supply.
3. **Connect Data:** Connect the data wire (green or white, depending on the strip) from the LED strip to the data output of your addressable LED controller.
4. **Secure Connections:** Ensure all connections are secure and properly insulated to prevent short circuits.
5. **Mounting:** The strip does not have self-adhesive backing. Use appropriate mounting clips, channels, or adhesives (e.g., silicone adhesive) suitable for your installation surface and environment.
6. **Power On:** Once all connections are verified, plug in your DC12V power supply and turn on your LED controller.

Work with Many Controllers

Compatible with Arduino Raspberry Pi microcontroller, SP105E SP108E app controller, SP106E SP107E music controllers, SP501E smart WiFi controllers.

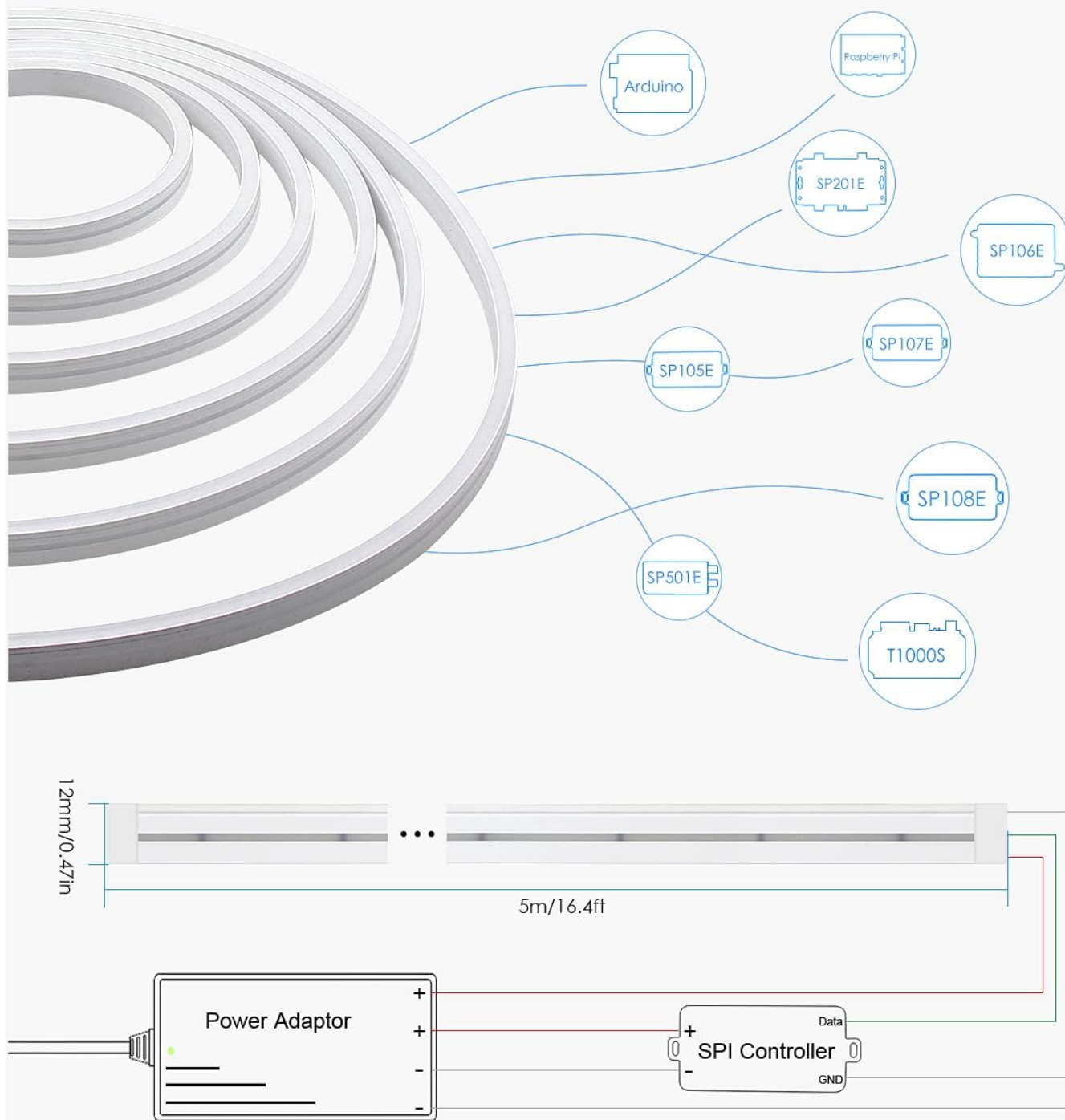


Image 5.1: Connection diagram for the LED strip with a power adaptor and SPI controller, highlighting compatible controller types.

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Video 5.1: An official product video demonstrating the flexibility, waterproof nature, and dynamic color capabilities of the Aclorol Addressable LED Neon Strip Lights.

6. Operating Instructions

The Aclorol WS2811 LED Neon Rope Light is controlled via an external addressable LED controller (not included). Refer to your specific controller's manual for detailed operating instructions. General operation typically involves:

- **Controller Connection:** Ensure the LED strip is correctly connected to your controller's data and power outputs.
- **Programming:** Use the controller's software or app to program desired lighting effects. This may include selecting preset patterns, adjusting colors, brightness, and speed.
- **Customization:** Many controllers allow for DIY color effects, enabling you to create unique lighting sequences.



Image 6.1: The Aclorol WS2811 LED Neon Strip Light showcasing its vibrant, multi-color illumination.

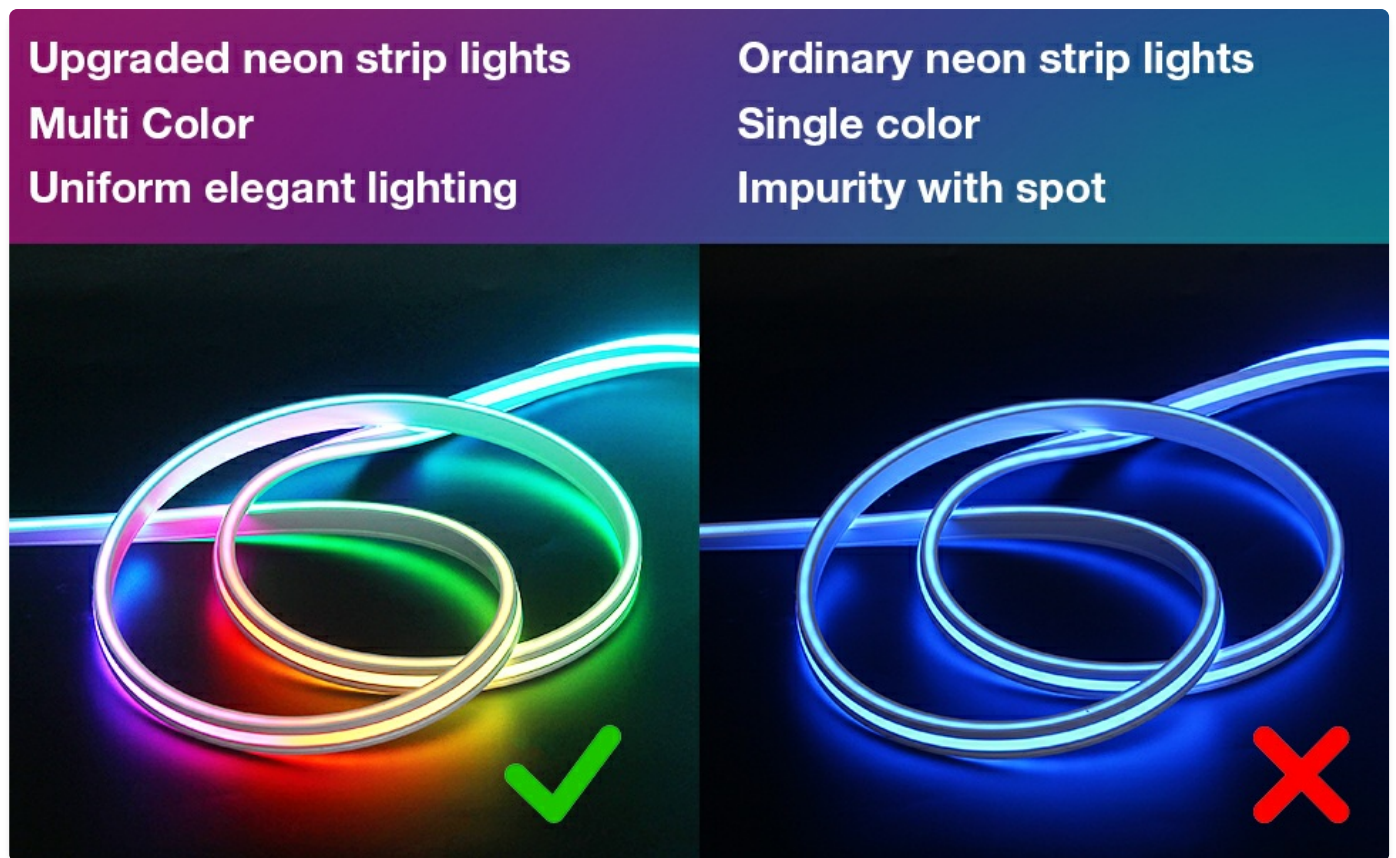


Image 6.2: A visual comparison highlighting the uniform and elegant lighting of the upgraded neon strip lights.

7. Maintenance

- **Cleaning:** Gently wipe the silicone surface with a soft, damp cloth. Avoid using harsh chemicals or abrasive cleaners.
- **Inspection:** Periodically check connections for any signs of wear or damage. Ensure the silicone casing remains intact, especially for outdoor installations.
- **Storage:** If storing the LED strip, coil it loosely and keep it in a dry, cool place away from direct sunlight.

8. Troubleshooting

Problem	Possible Cause	Solution
Lights do not turn on.	No power, incorrect wiring, faulty power supply/controller.	Check power connections, ensure correct polarity, test power supply/controller.
Incorrect colors or patterns.	Controller settings incorrect, data wire issue.	Verify controller settings (e.g., IC type, number of pixels), check data wire connection.
Only part of the strip lights up.	Damage to a section, power drop, controller pixel count mismatch.	Inspect the strip for physical damage, ensure adequate power injection for long runs, adjust controller pixel count.
Flickering lights.	Insufficient power, loose connection, controller issue.	Ensure power supply can handle the load, check all connections, try a different controller.

For specific issues related to your LED controller, please consult its dedicated instruction manual.

9. Specifications

Feature	Specification
Model Number	YC5M2811neon12VUS
Input Voltage	DC12V
LED Type	3838 RGB SMD LEDs
LED Quantity	108pcs per meter (540pcs total for 5M)
IC Type	WS2811 (1 IC controls 6 LEDs)
Length	5 meters (16.4 feet)
Power Consumption	12W/meter (60W total)
Waterproof Rating	IP65
View Angle	120°
Life Span	≥50000 hours
Control Method	External APP/Program Controller
Material	Silicone, PCB
Product Dimensions	196.85 x 0.47 x 0.24 inches
Item Weight	1 pound

10. Warranty and Support

For warranty information and technical support, please contact Aclorol customer service through the retailer where the product was purchased. Keep your purchase receipt as proof of purchase.

11. Application Examples

The Aclorol WS2811 LED Neon Rope Light is suitable for a wide range of decorative and functional lighting applications, including:

- Bedroom and living room ambient lighting
- Kitchen under-cabinet lighting
- Staircase accent lighting
- Outdoor advertising signs and logos
- Bars, KTVs, and commercial street atmosphere lighting
- DIY custom neon signs and artistic installations

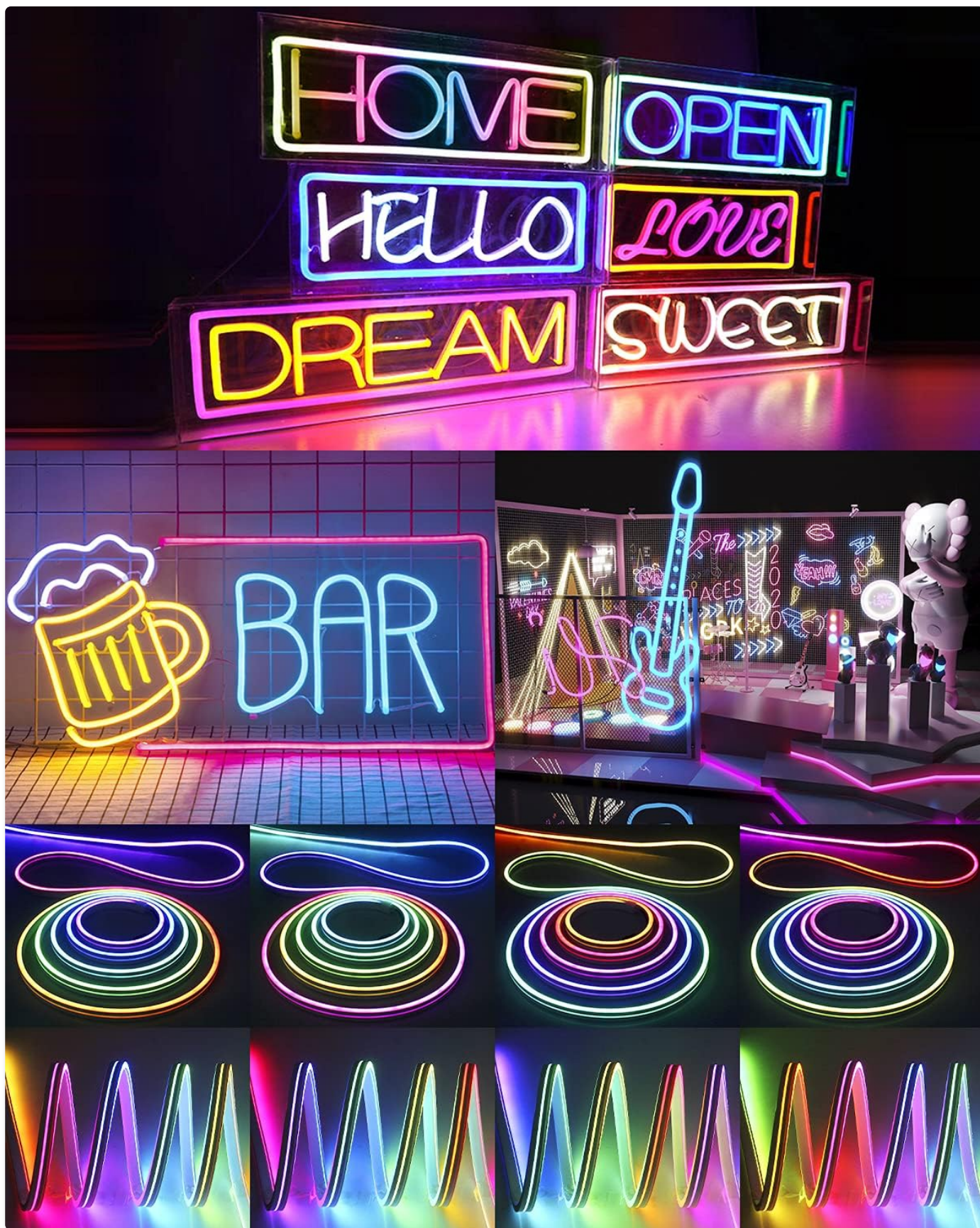


Image 11.1: Examples of the LED neon rope light used in various settings, from custom signs to architectural accents.



Image 11.2: The LED neon rope light providing colorful ambient lighting in a bedroom.



Image 11.3: Diverse applications of the LED neon rope light, including custom shapes and commercial displays.

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.

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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