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› LEDENET 16.4Ft RGBWW LED Strip Lights (Model LEDENET-STRIP-1086) Instruction Manual

LEDENET LEDENET-STRIP-1086

LEDENET 16.4Ft RGBWW LED Strip Lights Instruction Manual

MODEL: LEDENET-STRIP-1086

1. Introduction

Thank you for choosing the LEDENET 16.4Ft Flexible RGBWW LED Strip Lights. This product is designed to provide versatile and vibrant lighting for various indoor decoration applications. This manual provides essential information for the safe and effective installation, operation, and maintenance of your LED strip lights. Please read it thoroughly before use and retain it for future reference.



Figure 1: LEDENET 16.4Ft RGBWW LED Strip Lights, coiled and illuminated with a mix of colors.

2. Product Features

- **2-in-1 Design:** Combines color-changing RGB and warm white LEDs (SMD5050) on a single strip, offering a wide spectrum of colors and dedicated warm white illumination.
- **High Brightness:** Features 72 LEDs per meter, generating 1200 lumens per meter, with 180 RGB lights and 180 warm white lights (2800K-3200K color temperature) for reduced spotting and enhanced color blending.
- **Durable Construction:** Built with a 12mm wide high-quality Black PCB copper base for efficient heat dissipation and improved electrical conductivity, ensuring a longer service life.
- **Consistent Brightness:** Operates on a 24V DC power input, minimizing voltage drop across the 16.4ft (5M) length for uniform brightness.
- **Easy Customization:** The strip can be cut every 12 LEDs at designated marks, allowing for flexible length adjustments.
- **Simple Installation:** Equipped with strong 3M adhesive backing for secure mounting on various surfaces.
- **IP65 Waterproofing:** Features an eco-friendly, non-toxic silicone coating that provides IP65 water resistance, protecting the LEDs from external impacts while maintaining light transparency.

3. Safety Information

Please observe the following safety precautions to prevent injury or damage to the product:

- **Power Supply:** Only use a DC 24V power supply (not included) that is compatible with the wattage requirements of the LED strip. Using an incorrect voltage can damage the product.
- **Unroll Before Use:** **Do not light the LED strip while it is still coiled on the reel.** Unroll the entire strip before powering it

on to ensure proper heat dissipation and prevent overheating.

- **Cutting:** Only cut the LED strip at the designated cutting marks. Cutting elsewhere will damage the circuit and render that section unusable.
- **Water Resistance:** While the strip is IP65 waterproof, it is designed for indoor decoration and protection against splashes. Do not submerge the strip in water or expose it to heavy rain.
- **Installation Surface:** Ensure the mounting surface is clean, dry, and smooth for optimal adhesion of the 3M tape.
- **Children and Pets:** Keep the product and its components out of reach of children and pets.
- **Professional Installation:** If you are unsure about any installation steps, consult a qualified electrician.

4. Package Contents

The package includes the following item:

- 1 x 16.4ft (5M) RGBWW LED Strip Light (DC 24V)

Note: A DC 24V power supply and an LED RGBW controller are required for operation and must be purchased separately.

5. Setup and Installation

Follow these steps for proper installation:

1. **Preparation:** Unroll the entire LED strip from its reel. Ensure the installation surface is clean, dry, and free of dust or grease.
2. **Cutting (Optional):** If a shorter length is desired, locate the designated cutting marks on the LED strip (typically indicated by a copper pad and scissor icon). Cut only at these marks.
3. **Connection:** Connect the LED strip to a compatible DC 24V power supply and an RGBW LED controller (both sold separately). You can either solder wires to the copper pads at the end of the strip or use a 12mm wide quick connector (not included). Ensure correct polarity (+ and -) and channel connections (R, G, B, WW).



Figure 2: Connection diagram for the LED strip, controller, and power supply. Note: Transformer and controller are not included.

4. **Mounting:** Peel off the protective backing from the 3M adhesive tape on the back of the LED strip. Carefully press the strip onto your desired clean, dry surface. Apply firm, even pressure along the entire length to ensure good adhesion.
5. **Power On:** Once securely mounted and all connections are made, plug in the DC 24V power supply to an electrical outlet.

6. Operating Instructions

The operation of your LED strip lights is controlled by the separately purchased RGBW controller. Refer to the instruction manual provided with your specific controller for detailed operating procedures. Generally, you will be able to:

- Turn the lights On/Off.
- Adjust brightness levels.
- Select various RGB colors.
- Activate dedicated warm white light.
- Choose dynamic lighting modes (e.g., flashing, fading, strobing), if supported by your controller.



Figure 3: The LED strip illuminated with warm white light.



Figure 4: Example application of LED strip lights in a kitchen setting.

7. Maintenance

To ensure the longevity and optimal performance of your LED strip lights, follow these maintenance guidelines:

- **Cleaning:** Gently wipe the surface of the LED strip with a soft, dry cloth to remove dust. For stubborn dirt, slightly dampen the cloth with water, ensuring no liquid enters the electrical connections. Always disconnect power before cleaning.
- **Inspection:** Periodically check the strip for any signs of damage, such as cuts, abrasions, or loose connections. Address any issues promptly.
- **Avoid Harsh Chemicals:** Do not use abrasive cleaners, solvents, or harsh chemicals on the LED strip, as these can damage the silicone coating and LEDs.

8. Troubleshooting

Problem	Possible Cause	Solution
Lights do not turn on.	No power, incorrect connection, faulty power supply/controller.	Check if the power supply is plugged in and receiving power. Verify all connections are secure and correctly polarized. Test the power supply and controller if possible.
Some sections of the strip are not lighting up.	Damage to the strip, incorrect cutting, loose connection at a cut point.	Inspect the strip for physical damage. Ensure cuts were made at designated marks. Recheck connections at any cut/joined sections.
Colors are incorrect or inconsistent.	Controller malfunction, incorrect wiring of RGBW channels.	Ensure the RGBW channels are correctly wired to the controller. Refer to your controller's manual. Try resetting or replacing the controller.
Adhesive is not holding.	Surface not clean/dry, improper application.	Ensure the surface is thoroughly cleaned and dry before application. Apply firm, even pressure during mounting. Consider using additional mounting clips if needed.

9. Specifications

Attribute	Detail
Model Number	LEDENET-STRIP-1086
Length	16.4 feet (5 meters)
LED Type	SMD5050 RGBWW
LED Quantity	360 LEDs (180 RGB, 180 Warm White)
Voltage	DC 24V
Wattage	60 Watts
Luminous Flux	1200 Lumens/Meter (White Brightness: 6000 Lumens for entire strip)
Color Temperature (Warm White)	2800K - 3200K
PCB Color	Black
Waterproof Rating	IP65 (Silicone Coating)
Cuttable Interval	Every 12 LEDs
Dimensions (L x W x H)	197 x 0.48 x 0.08 inches
Item Weight	8.6 ounces

10. Warranty and Support

For warranty information or technical support, please contact LEDENET customer service through the retailer where the product was purchased or visit the official LEDENET website. Please have your model number (LEDENET-STRIP-1086) and purchase details ready when contacting support.