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BTF-LIGHTING RGBCW45M505060LW30

BTF-LIGHTING 5050 RGBW LED Tape Light Instruction Manual

MODEL: RGBCW45M505060LW30

Brand: BTF-LIGHTING

1. Introduction

Thank you for choosing the BTF-LIGHTING 5050 RGBW LED Tape Light. This versatile LED strip features 4 colors in 1 SMD LEDs (Red, Green, Blue, and Cool White), allowing for a wide range of color mixing and pure white illumination. It is designed for various indoor decorative applications. This manual provides essential information for safe installation, operation, and maintenance.

Package Contents:

- 1 x RGBW 4 in 1 LED Strip light (5 meters / 16.4 feet)
- 1 x 5-Pin connector

Note: A DC12V power supply and an RGBW controller are required for operation and are NOT included in this package. These items must be purchased separately.



Image: The package includes one roll of RGBW LED strip light and a 5-pin connector. Power supply and controller are not included.

2. Setup and Installation

Proper installation is crucial for optimal performance and longevity of your LED tape light. Ensure all connections are secure and correct before applying power.

Preparation:

- Ensure the installation surface is clean, dry, and smooth.
- Have a compatible DC12V power supply and an RGBW controller ready.

Wiring the LED Strip:

The LED strip has 5 pins (+12V, G, R, B, W). Connect these to your RGBW controller according to the controller's instructions. Pay close attention to matching the wire colors to the correct ports on the controller to ensure proper functionality.

Video: This video demonstrates how to connect an RGBCCT LED strip to a controller and power supply. Note that the product in this manual is RGBW, which has 5 wires, similar to the RGBCCT setup shown.

Cutting and Linking:

The LED strip is flexible and can be cut every 3 LEDs along the designated cutting marks (black lines). This allows for custom lengths to fit your specific application. Use the included 5-pin connector for end-to-end connections if needed.

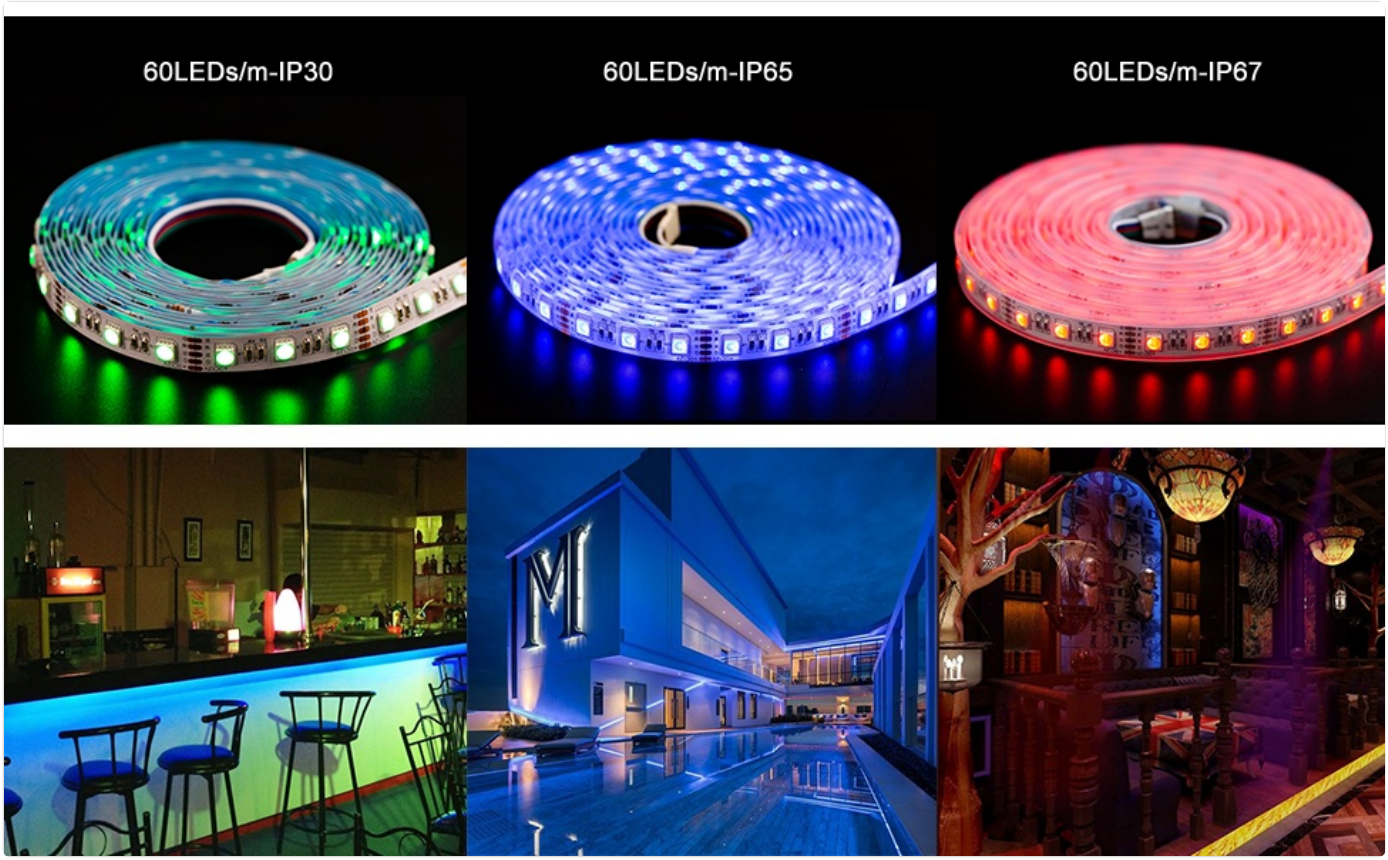


Image: The LED strip can be cut at marked intervals, typically every 3 LEDs, to adjust its length. Ensure cuts are made precisely on the designated lines.

Video: This video demonstrates the flexibility and cuttable nature of the LED strip, showing how to cut it to custom lengths and connect segments using connectors.

Mounting the LED Strip:

The IP30 version of this LED strip comes with double-sided adhesive tape on the back for easy installation. Peel off the protective backing and firmly press the strip onto your clean, dry surface. For IP67 versions, no adhesive tape is provided, and external mounting clips or channels may be required.



Image: Different IP ratings for LED strips are shown. The IP30 version (non-waterproof) typically includes double-sided adhesive for easy indoor mounting.

3. Operating Instructions

Once properly installed and connected to a compatible controller and power supply, your BTF-LIGHTING 5050 RGBW LED Tape Light offers a wide range of lighting possibilities.

Color Control and Dimming:

The 4-in-1 RGBW LEDs can be mixed to produce millions of different colors. The dedicated Cool White (6000K-7000K) component provides pure white light, which is more energy-efficient than mixed white light. The strip is fully dimmable, allowing you to adjust brightness from 1% to 100% via your controller.

Image: A diagram comparing a 4-in-1 RGBW LED chip with separate RGB and white LEDs, highlighting the integrated Cool White component.

Image: Key features of the LED strip, including its brightness, 4-in-1 color capability, ease of installation, and long lifespan.

Compatible Controllers:

This LED strip is compatible with various RGBW controllers, including:

- Tuya Zigbee 3.0 Controllers (e.g., LM052, C04Z)
- Bluetooth APP Controllers (e.g., LM053)
- WiFi Alexa Google Home Controllers (e.g., WB5, C04W)
- RF Remote Controllers (e.g., RC03RFB+1XC04RF)

Video: This video showcases the RGBW 5050SMD LED strip light in action, demonstrating various color changes and effects, likely controlled by an external controller.

Video: This video demonstrates chasing color lighting effects, showcasing the dynamic capabilities of the LED strip when paired with a compatible controller.

4. Care and Maintenance

To ensure the longevity and optimal performance of your LED tape light, follow these simple care guidelines:

- Keep the LED strip clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Avoid bending the strip sharply, especially at solder joints, to prevent damage to the circuit board.
- Do not crush or apply excessive pressure to the LED strip.
- This product is IP30 rated, meaning it is non-waterproof. Avoid exposure to water or high humidity.



Image: Visual representation of different IP ratings (IP30, IP65, IP67) and their respective levels of protection against dust and water. The current product is IP30.

5. Troubleshooting Common Issues

If you encounter any issues with your LED tape light, refer to the following common troubleshooting steps:

- **Lights not turning on:** Ensure the power supply is connected and functioning, and the controller is properly wired and powered. Check all connections for looseness.
- **Inconsistent colors or voltage drop:** This can occur with longer runs or if the strip is powered from only one end. Consider powering the strip from both ends or using shorter segments to maintain consistent voltage and color across the entire length. Avoid running the maximum brightness mixed white light for extended periods, as this can cause voltage drop.
- **Adhesive not sticking:** Ensure the installation surface is thoroughly cleaned and dry before applying the strip. Apply firm, even pressure along the entire length of the strip to activate the pressure-sensitive adhesive.
- **Controller not responding:** Check the controller's power connection and ensure it is properly paired with your control

device (e.g., smartphone app, RF remote). Refer to your controller's specific manual for pairing instructions.

6. Product Specifications

Brand	BTF-LIGHTING
Model Number	RGBCW45M505060LW30
LED Type	5050 RGBW (4 colors in 1 SMD)
LED Quantity	60 LEDs/meter (300 RGB LEDs + 300 Cool White LEDs per 5m)
Length	5 meters (16.4 feet)
Input Voltage	DC12V
Power Consumption	0.1-0.4W/LED (6W-24W/m, Total: 30W-120W)
Recommended Power Supply	DC12V10A (120W)
Color Temperature (Cool White)	6000K-7000K
FPCB Width	12mm
Waterproof Level	IP30 (Non-waterproof)
Lifespan	50,000+ hours
Control Method	App, IFTTT, Voice Control (with compatible controller)

7. Warranty and Support

This BTF-LIGHTING 5050 RGBW LED Tape Light comes with a one-year warranty from the date of purchase. The warranty covers manufacturing defects under normal use conditions.

For technical support, troubleshooting assistance, or warranty claims, please contact BTF-LIGHTING customer support through the retailer where the product was purchased or visit the official BTF-LIGHTING website for contact information.

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