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› JOYLIT RGBCCT COB LED Strip Light 24V 16.4FT/5M User Manual

JOYLIT COB-24V-840-5M-RGCCT

JOYLIT RGBCCT COB LED Strip Light 24V 16.4FT/5M User Manual

Model: COB-24V-840-5M-RGCCT

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your JOYLIT RGBCCT COB LED Strip Light. Please read this manual thoroughly before use to ensure proper function and safety.



Image 1.1: JOYLIT RGBCCT COB LED Strip Light demonstrating various color and white light options.

Product Features:

- **Dual Lighting Modes:** Offers vibrant RGB colors (16 million hues) and adjustable white light from warm 2700K to cool 6500K.
- **Advanced COB Technology:** Features 840 LEDs per meter for a smooth, uniform, and dot-free light output.
- **Easy Installation:** Equipped with strong pre-applied adhesive backing for simple peel-and-stick mounting.
- **Flexibility:** Can be cut at marked points (every 1.38 inches / 3.5 cm) for custom lengths.
- **High Brightness & Reliability:** Operates on 24V low-voltage for safety, reduced heat, and stable output.
- **Indoor Use:** Designed for indoor, dry locations only.

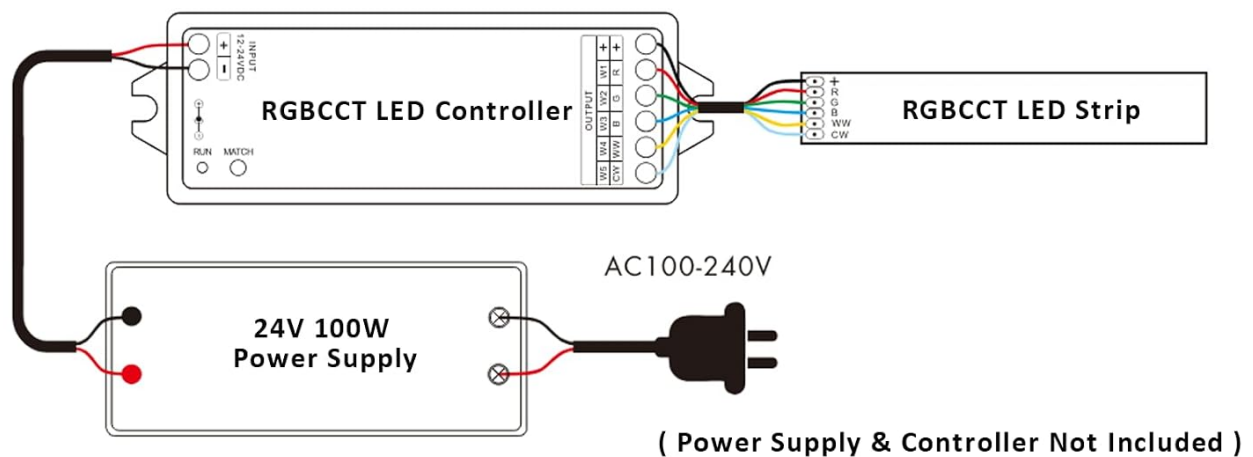
2. SETUP AND INSTALLATION

Follow these steps to properly install your LED strip light. Please note that a 24V DC power supply (rated at least 4A for 16.4ft length) and a compatible RGBCCT controller are required and sold separately.

2.1 Components Required (Sold Separately):

- JOYLIT RGB CCT COB LED Strip Light (included)
- 24V DC Power Supply (e.g., 24V 150W Power Supply)
- Compatible RGB CCT LED Controller (e.g., Zigbee LED Controller, RGB CCT LED Controller with Remote)
- Power cords (not included)
- Cables (not included)
- Flathead Screwdriver (not included)

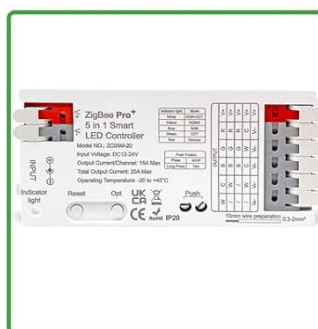
How to Connect



Compatible LED Power Supply & RGBCT LED Controller



24V 150W Power Supply



ZigBee LED Controller



RGBCCT LED Controller with Remote

Image 2.1: Connection diagram for the LED strip, controller, and power supply.

2.2 Installation Steps:

1. **Preparation:** Gather all necessary components including the LED strip, power supply, controller, cables, and a screwdriver.
2. **Cutting (Optional):** If a shorter length is desired, cut the LED strip only at the designated cut marks, which occur every 1.38 inches (3.5 cm). Use sharp scissors to ensure a clean cut.

How to Use

Power supply and rgbct led contoller is required, sold separately!

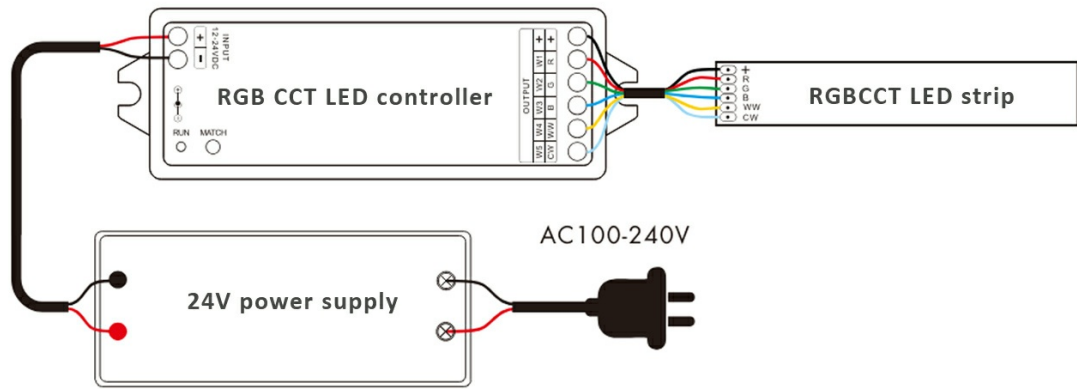


Image 2.2: Illustration of cutting the LED strip at marked points and applying it using the peel-and-stick adhesive.

3. **Connecting the Power Input:** Connect the AC power input wires to your 24V DC power supply. Ensure correct polarity (positive to '+' and negative to '-'). Refer to the power supply's manual for specific instructions.
4. **Connecting the Power Output to Controller:** Connect the DC output from the power supply to the input terminals of your RGBCT LED controller. Pay close attention to polarity: '+' to '+' and '-' to '-'.
5. **Connecting the LED Strip to Controller:** Connect the wires from the RGBCT LED strip to the corresponding output terminals on the controller. Match the colors (e.g., Red to R, Green to G, Blue to B, Warm White to WW, Cold White to CW, and V+ to V+).

Video 2.1: A visual guide demonstrating the connection process for the JOYLIT RGBCT COB LED Strip, controller, and power supply.

6. **Mounting the Strip:** Peel off the protective backing from the adhesive tape on the back of the LED strip. Press the strip firmly onto a clean, dry, and flat surface.
7. **Safety Check:** Before powering on, double-check all connections to ensure they are secure and correctly wired.

Video 2.2: Important safety information regarding handling the wire at the end of the LED strip, advising not to touch the PCB directly.

3. OPERATING INSTRUCTIONS

Once installed, operate your JOYLIT RGBCT COB LED Strip Light using a compatible controller (not included). The controller allows for various lighting adjustments.

3.1 Power On/Off:

Use the power button on your controller or remote to turn the LED strip on or off.

3.2 Color and White Light Adjustment:

- **RGB Colors:** Select from 16 million vibrant colors to create various moods and effects.
- **Tunable White:** Adjust the white light temperature from warm 2700K to cool 6500K to suit different tasks or times of day.

RGB + 2700-6500K Multi Colors



Image 3.1: Demonstrating the wide range of RGB and CCT white light colors available.

3.3 Brightness Control:

Adjust the brightness level from 1% to 100% using your controller. The COB technology ensures smooth dimming without flickering.

3.4 Lighting Uniformity:

The advanced COB (Chip-on-Board) technology with 840 LEDs per meter provides a seamless, uniform ribbon of light, eliminating the dotted appearance often seen with traditional SMD LED strips.

COB LED STRIP

Bright Uniform Glow Without Dark Dots



SMD LED STRIP

Dim And With Dark Dots



Image 3.2: Visual comparison of COB LED strip (dot-free) versus SMD LED strip (with visible dots).

Video 3.1: Demonstration of the JOYLIT 24V RGB CCT COB LED Strip Lights, highlighting their brightness and color capabilities.

4. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your LED strip light.

4.1 Cleaning:

Gently wipe the LED strip with a soft, dry cloth to remove dust. Do not use liquid cleaners or abrasive materials, as these can damage the strip or its components.

4.2 Environmental Conditions:

This LED strip is designed for **indoor, dry locations only**. Avoid exposure to moisture, high humidity, or extreme temperatures, as this can lead to malfunction or damage.

4.3 Inspection:

Periodically inspect the strip and connections for any signs of wear, damage, or loose wiring. Address any issues promptly to prevent further problems.

5. TROUBLESHOOTING

If you encounter issues with your LED strip light, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
LED strip does not light up.	- No power to the power supply. - Incorrect wiring (polarity). - Faulty power supply or controller. - Loose connections.	- Check if the power supply is plugged in and receiving power. - Verify all wiring connections, ensuring correct polarity (+ to + and - to -). - Test the power supply and controller if possible. - Secure all connections.
Incorrect colors or flickering.	- Incorrect wiring to the controller. - Controller malfunction. - Damaged LED segment.	- Ensure the RGB, CCT, and V+ wires are connected to the correct terminals on the controller. - Try resetting or replacing the controller. - If only a segment is affected, it might be damaged.
Adhesive not holding.	- Surface was not clean or dry. - Surface is porous or uneven.	- Clean the surface thoroughly before application. - Use additional mounting clips or stronger adhesive if needed for porous or uneven surfaces.

6. SPECIFICATIONS

Feature	Detail
Model Number	COB-24V-840-5M-RGBCCT
Brand	JOYLIT
Color	RGB+CCT
Indoor/Outdoor Usage	Indoor
Special Features	Color Changing, Cuttable, Dimmable, Dotless, Energy Efficient
Light Source Type	LED
Power Source	DC 24V (Power supply sold separately)
Light Color	RGB+2700-6500K CCT

Feature	Detail
Material	Copper
Color Temperature	2700 Kelvin - 6500 Kelvin
Controller Type	Remote Control, Voice Control (Controller sold separately)
Number of Light Sources	4200 (840 LEDs/meter)
Voltage	24 Volts (DC)
Wattage	90 watts (Max compatible)
Ingress Protection Code Rating	IP20
Item Length	16.4 Feet (5 Meters)
Color Rendering Index (CRI)	90.0
Package Dimensions	7.95 x 7.28 x 0.67 inches
Item Weight	4.6 ounces

For more detailed product information, including energy efficiency data, please refer to the [EPCRE database \(QR code link\)](#).

7. WARRANTY INFORMATION

JOYLIT products are manufactured to high-quality standards. For specific warranty details, including coverage and duration, please refer to the warranty information provided at the time of purchase or contact JOYLIT customer support directly. Keep your proof of purchase for warranty claims.

8. CUSTOMER SUPPORT

If you have any questions, require technical assistance, or need further support regarding your JOYLIT RGB CCT COB LED Strip Light, please contact JOYLIT customer service through the official JOYLIT Store on Amazon or via their designated support channels.
Visit the [JOYLIT Store](#) for more products and support resources.

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

you@example.com

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