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SuperlightingLED FLSDR-RGBCCT-1350

SuperlightingLED DC12V RGB CCT LED Strip Light Instruction Manual

Model: FLSDR-RGBCCT-1350

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1. PRODUCT OVERVIEW

The SuperlightingLED DC12V RGB CCT LED Strip Light is a versatile, non-waterproof flexible LED tape light designed for various indoor lighting applications. It features a dual-row design with SMD 5050 LEDs for RGB colors and SMD 2835 LEDs for adjustable warm white (2700K) to daylight white (6000K) illumination. With a high CRI 90+, it ensures accurate color rendering.

Key Features:

- RGBCCT Full Color + High CRI 90+:** Offers vibrant RGB lighting and tunable white light from 2700K to 6000K with excellent color accuracy.
- Dual Row Design, 15mm Wide:** High-density configuration with 1350 LEDs per roll for superior brightness, delivering up to 24,300 lumens.
- 12V DC Powered, Cuttable & Extendable:** Operates safely on 12V DC. Each 5-meter (16.4ft) roll can be cut every 9 LEDs for custom lengths.
- Flexible with Strong Adhesive Backing:** Easy installation on various surfaces due to its flexibility and durable adhesive.
- Versatile Applications:** Suitable for workbenches, retail displays, signage backlighting, videography, cabinet lighting, under-cabinet lighting, showcases, and trade show displays.

Package Contents:

- 1 x 16.4FT LED strip light

Note: This package includes only the LED strip light. A compatible 12V DC power supply and an RGBCCT controller are required for operation and must be purchased separately.

2. SAFETY INFORMATION

- **Indoor Use Only:** This LED strip light is non-waterproof (IP20 rated) and designed exclusively for indoor applications. Do not expose to moisture, water, or outdoor elements.
- **Power Supply:** Use only a compatible 12V DC power supply. Connecting to an incorrect voltage can damage the strip and pose a safety risk.
- **Electrical Connections:** All electrical connections should be performed by a qualified individual if you are unsure. Ensure power is disconnected before making any connections or modifications.
- **Cutting:** Only cut the LED strip at designated cut marks (every 9 LEDs). Cutting elsewhere will damage the circuit and render that section unusable.
- **Heat:** While LED strips generate minimal heat, ensure adequate ventilation, especially when installed in enclosed spaces. Do not cover the strip with materials that could trap heat.
- **Mounting Surface:** Ensure the mounting surface is clean, dry, and free of dust or grease for optimal adhesive performance.

3. PRODUCT SPECIFICATIONS

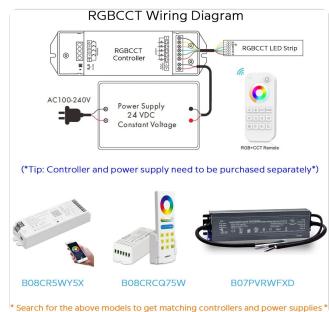
Feature	Detail
LED Strip Type	SMD 5050 RGB + SMD 2835 Warm White + SMD 2835 Daylight White
Working Temperature	-4°F (-20°C) ~ 122°F (50°C)
Light Color	RGB + Warm White + Daylight White
Dimension	16.4Ft (5m) / roll
Cuttable Unit	Every 9 LEDs (12V)
LED Quantity	1350 LEDs / roll
Lifespan	50,000+ hours
Strip Dimensions (L x W x H)	5000cm (197 in) x 1.5cm (0.59 in) x 0.25cm (0.1 in)
Input Voltage	12V DC
Working Power (Max)	150W / 16.4ft (9.15W / foot)
Lamp Luminous Flux	18-20 Lumens / LED, 1,500 Lm / Ft, 24,300 Lumens / 16.4ft
Color Temperature CCT (White)	Warm White (2700K) to Daylight White (6000K)
Beam Pattern	120 degree
Waterproof Rating	Non-waterproof IP20
CRI (Ra>)	90+
PCB Width	15mm (0.59 inches)
Item Weight	6.4 ounces
Control Method	App, Voice (with compatible controller)

4. SETUP INSTRUCTIONS

4.1 Components Required (Sold Separately):

- **12V DC Power Supply:** Ensure the power supply has sufficient wattage for the length of the LED strip used.
- **RGBCCT LED Controller:** A compatible controller (e.g., RF remote or WiFi controller) is necessary to control the color, brightness, and color temperature of the strip.

Example of compatible accessories:



Wiring diagram showing connections to controller and power supply, with examples of compatible accessories.

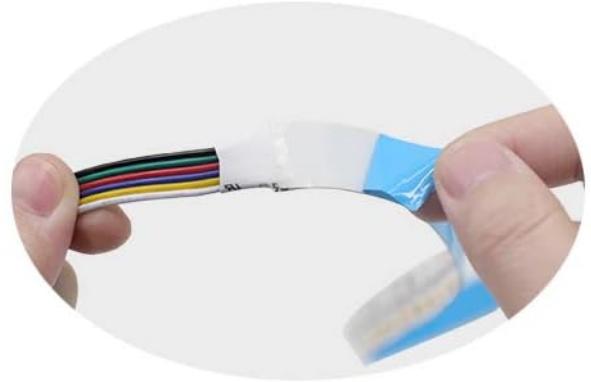
4.2 Pre-Installation:

1. **Plan Layout:** Determine the desired path for your LED strip. Measure the length required.
2. **Clean Surface:** Ensure the mounting surface is clean, dry, smooth, and free of dust or oil for optimal adhesion.
3. **Test Components:** Before permanent installation, connect the LED strip, controller, and power supply to ensure all components function correctly.

4.3 Installation Steps:

1. Cutting the LED Strip (if necessary):

The LED strip can be cut every 9 LEDs at the designated cut marks. Use sharp scissors to ensure a clean cut.



270LEDs/m, Every 9LEDs can be cut
90LEDs/WW; 90LEDs/DW; 90LEDs/RGB
High Bright 4860lm/meter

Strong Blue backing adhesive
The higher the temperature,
the stronger the viscosity
Please keep the surface clean before use



PCB width is only 15mm/0.59inch
Please choose aluminum channels >17mm



Cut length 33mm/1.31inch

Illustration of LED strip cut points and dimensions.

Important Note: The PCB width is 15mm, and the sleeve width is 17mm. Standard 6-pin quick connectors are not compatible with this width. It is recommended to cut and solder connections for custom lengths.

2. Connecting the LED Strip:

Connect the LED strip to the RGBCCT controller. This strip uses a 5-wire connection (DC12V+, Red, Green, Blue, Warm White, Daylight White). Ensure correct polarity and wire assignment.



(Tips: 15mm Wide, Not suitable for 6-pin connectors
Can only be **welded** after cutting)



Detailed wiring diagram for the RGBCCT LED strip.

3. Connecting the Power Supply:

Connect the RGBCCT controller to the 12V DC power supply. Refer to the controller's manual for specific wiring instructions.

4. Mounting the LED Strip:

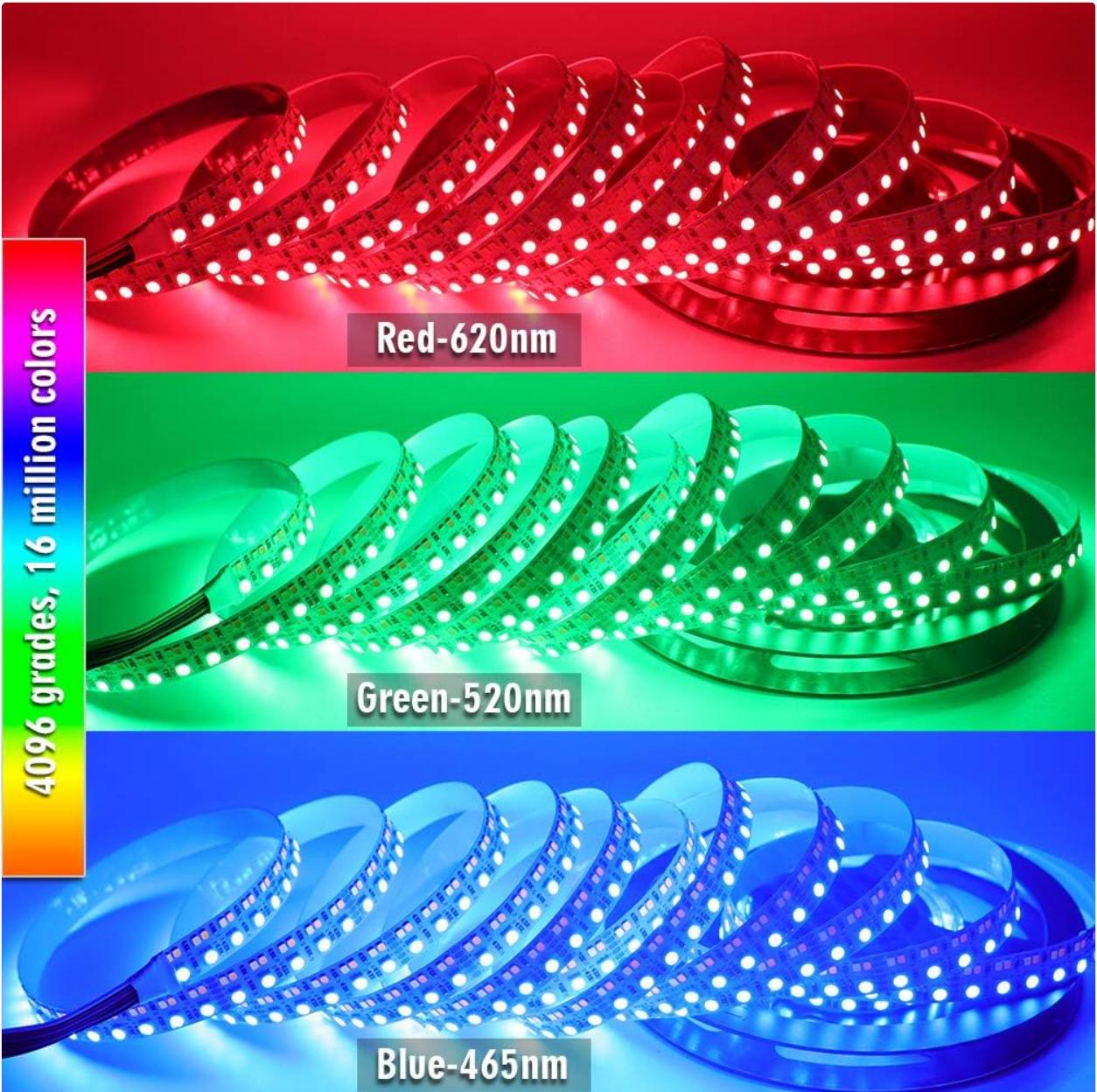
Peel off the protective backing from the strong blue adhesive on the back of the LED strip. Carefully press the strip onto the prepared surface, ensuring firm and even contact along its entire length.

5. OPERATING INSTRUCTIONS

Operation of the SuperlightingLED RGB CCT LED Strip Light requires a compatible RGBCCT controller (purchased separately). The specific functions and controls will depend on the model of controller you are using. Refer to your controller's instruction manual for detailed operating procedures.

General Operation (via compatible controller):

- **Power On/Off:** Use the designated power button on your controller or app.
- **Color Selection:** Select from 16 million RGB colors using the color wheel or preset buttons on your controller/app.



RGB color display capabilities.

- **White Light Adjustment:** Adjust the white light color temperature from warm white (2700K) to daylight white (6000K).



Adjustable white light color temperatures.

- **Brightness Control:** Dim or brighten the light output to your desired level.
- **Modes/Scenes:** Many controllers offer pre-programmed dynamic modes or the ability to create custom scenes.
- **App/Voice Control:** If using a WiFi controller, you may be able to control the strip via a smartphone app or voice assistants.



For Indoor Use, You Can Get Any Colors



Example of indoor application and app control.

6. MAINTENANCE

- Cleaning:** Ensure the LED strip is powered off and cool before cleaning. Gently wipe the surface with a soft, dry, or slightly damp cloth. Do not use harsh chemicals, abrasive cleaners, or excessive moisture.
- Inspection:** Periodically inspect the strip for any signs of damage, loose connections, or adhesive degradation.
- Storage:** If storing the LED strip, ensure it is rolled neatly and kept in a dry, cool environment away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
LED strip does not light up.	No power to the strip/controller. Incorrect wiring. Faulty power supply or controller.	Check if the power supply is plugged in and receiving power. Verify all wiring connections between the strip, controller, and power supply are correct and secure. Test the power supply and controller with another compatible device if possible.
Incorrect colors or white light.	Incorrect wiring to the controller. Controller settings are wrong.	Ensure the R, G, B, WW, DW, and 12V+ wires are connected to the correct terminals on the controller. Refer to your controller's manual to ensure it is set to the correct output mode for RGBCCT strips.
Section of the strip is not lighting up.	Damage to the strip. Incorrect cut.	Inspect the non-working section for physical damage. If a section was cut incorrectly (not at the designated marks), it may be permanently damaged.
Adhesive is not holding.	Surface not properly cleaned. Surface is porous or uneven.	Ensure the surface is thoroughly cleaned and dry before application. For porous or uneven surfaces, consider using additional mounting clips or stronger adhesive.

8. WARRANTY AND SUPPORT

8.1 Warranty Information:

This product is covered by the manufacturer's standard warranty. For specific details regarding warranty duration and terms, please refer to the documentation provided with your purchase or contact the seller directly.

8.2 Customer Support:

If you encounter any issues or have questions not covered in this manual, please contact the seller or manufacturer for assistance. When contacting support, please have your product model number (FLSDR-RGBCCT-1350) and purchase information readily available.