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#### BTF-LIGHTING RGBWW55M505060LW65

# BTF-LIGHTING RGBCCT 5-in-1 LED Strip Light User Manual

Brand: BTF-LIGHTING | Model: RGBWW55M505060LW65

#### 1. Introduction

Thank you for choosing the BTF-LIGHTING RGBCCT 5-in-1 LED Strip Light. This product is designed to provide versatile and vibrant lighting for various indoor applications. This manual will guide you through the installation, operation, and maintenance of your LED strip light.

**Please note:** This package includes the LED strip light and a 6-PIN connector. A power supply and controller are **not included** and must be purchased separately to operate the strip light.



Image 1.1: BTF-LIGHTING RGBCCT 5-in-1 LED Strip Light



Image 1.2: The LED strip light as packaged, including the 6-PIN connector.

#### 2. PRODUCT FEATURES

- RGBCCT 5-in-1 LED Technology: Each LED chip integrates Red, Green, Blue, Warm White (2700K), and Cool White (6500K) emitters, allowing for a wide spectrum of colors and tunable white light.
- Tunable Color Temperature: Adjust white light from warm (2700K) to cool (6500K) to suit various moods and environments.
- Vibrant Color Options: Capable of producing millions of colors by mixing RGB components.
- Cuttable Design: The strip can be cut every 3 LEDs, providing flexibility for custom lengths.
- **IP65 Water Resistance:** Features silicone coating for dust prevention and protection against water splashes, suitable for indoor use.
- Adhesive Backing: Equipped with strong adhesive tape for easy installation on various surfaces.
- Controller Compatibility: Works with various smart RGBCCT controllers (not included) for advanced control options, including WiFi, Bluetooth, Zigbee, Alexa, Google Home, and RF remote.

# LED Contrast 4 COLORS IN 1 5 COLORS IN 1 5050 SMD 5050 SMD Warm White Warm White (3000K) (3000K) RGB Cool White **RGB** (6500K)

Image 2.1: Comparison of 4-in-1 and 5-in-1 LED chip configurations, highlighting the integrated Warm White and Cool White LEDs in the 5-in-1 design.



Image 2.2: Visual representation of the advantages of RGB+CCT LED strip lights, showing integrated warm and cool white LEDs for pure white light.



Image 2.3: Display of the wide range of colors and tunable white light options available from the LED strip.



**IP65 Silicone Coating Waterproof**Dust prevention waterproofing. It works indoors only



IP67 Silicone Sheathing Waterproof
Dust prevention waterproofing designs. It can work outside

Image 2.4: Explanation of IP65 silicone coating for dust prevention and splash resistance, suitable for indoor use.

## Your browser does not support the video tag.

Video 2.1: This video demonstrates the various color and tunable white light capabilities of the RGBCCT 5050SMD LED Strip, showcasing its versatility.

#### 3. SAFETY INFORMATION

- Voltage: This LED strip operates on 12V DC. Ensure your power supply provides the correct voltage to prevent damage.
- Power Supply: Use a compatible DC12V power supply with sufficient wattage for the length of the strip being used. Recommended power supply: DC12V 10A (120W) for the full 5-meter strip.
- **Indoor Use Only:** Despite IP65 rating, this product is designed for indoor use. Avoid direct exposure to harsh outdoor elements.
- **Installation:** Installation should be performed by a qualified individual if you are unsure about electrical wiring.
- Cutting: Only cut the LED strip at designated cut marks (every 3 LEDs) to avoid damaging the circuit.
- **Heat:** While LED strips generate less heat than traditional lighting, ensure proper ventilation, especially when installed in enclosed spaces.
- **Children:** The working voltage is 12V, making it touchable and safe for children. However, keep small components and wiring out of reach.

#### 4. SETUP AND INSTALLATION

#### 4.1 Pre-Installation Checklist

- Ensure you have a compatible 12V DC power supply and an RGBCCT controller (not included).
- Clean the installation surface thoroughly to ensure proper adhesion.
- Test the LED strip with your power supply and controller before permanent installation.

#### 4.2 Mounting the LED Strip

- 1. Peel off the protective backing from the adhesive tape on the back of the LED strip.
- 2. Carefully press the strip onto the desired clean, dry surface. Apply firm, even pressure along the entire length to ensure good adhesion.



Image 4.1: Demonstrating the application of the LED strip's adhesive backing for mounting.

#### 4.3 Connecting to Power and Controller

- 1. Connect the 6-PIN connector from the LED strip to your compatible RGBCCT controller. Ensure the pins align correctly (V+, W1, G, R, B, W2).
- 2. Connect the controller to your 12V DC power supply.

3. Plug the power supply into a suitable power outlet.

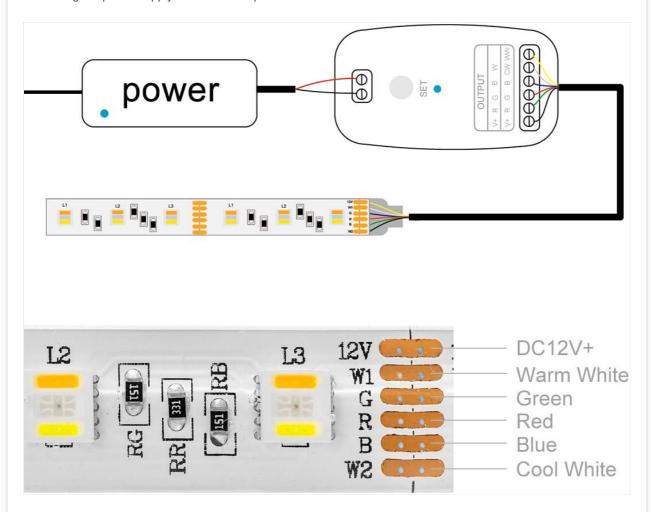


Image 4.2: Basic wiring diagram showing connections between the power supply, controller, and LED strip.



Image 4.3: Close-up of connecting the LED strip to a 6-PIN connector.

### 4.4 Cutting and Connecting Multiple Strips

- The LED strip can be cut at designated marks, typically every 3 LEDs. Use sharp scissors to ensure a clean cut.
- For IP65 strips, you may need to carefully clean the silicone coating from the surface at the connection points before using connectors.
- Use appropriate 6-PIN connectors (not included) to join cut sections or extend the strip. Ensure secure connections for reliable operation.

# Transparent middle connection Single end connection Single end connection Connect The Controller To the controller Note: 1. Press the patch to make sure it is fully clamped surface of the IP65 light strip when you use the connector.

Image 4.4: Illustration of different connection methods for 5050 RGBCCT LED strips, including notes on cleaning silicone for IP65 strips.

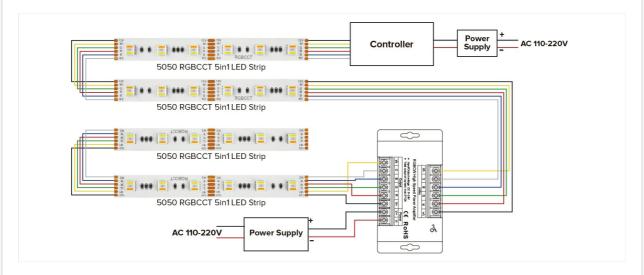


Image 4.5: Advanced wiring diagram for connecting multiple LED strips to a single controller and power supply.

#### 5. OPERATING INSTRUCTIONS

Once properly installed and connected to a compatible RGBCCT controller (e.g., WiFi, Bluetooth, Zigbee, RF remote), you can control your LED strip light. The specific operation will depend on your chosen controller and its associated application.

#### **5.1 General Control Functions**

- Power On/Off: Use the controller or app to turn the lights on or off.
- Color Selection: Choose from a wide range of RGB colors.
- Tunable White Adjustment: Adjust the white light temperature from warm (2700K) to cool (6500K).
- Brightness Control: Dim or brighten the lights to your preferred level.
- Scene Modes: Many controllers offer pre-set scene modes for various occasions.
- **Voice Control:** If using a smart controller compatible with Amazon Alexa or Google Home, you can control the lights with voice commands.

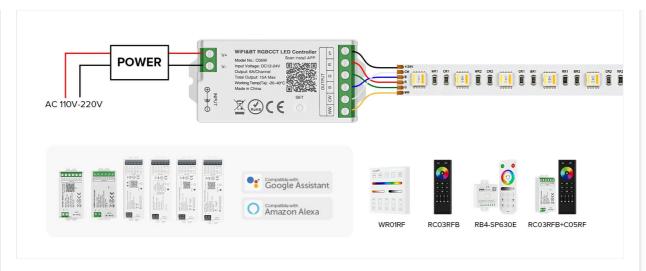


Image 5.1: Examples of compatible controllers (WB5, LM052, LM053) and integration with Google Assistant and Amazon Alexa. For smart control, download the Smart Life app: https://smartapp.tuya.com/smartlife

#### Your browser does not support the video tag.

Video 5.1: This video demonstrates the functionality of the WR01RF Wireless 2.4G RF 4 Zones RGBCCT Wall Mounted Smart Panel Remote in controlling the LED strip's colors and brightness.

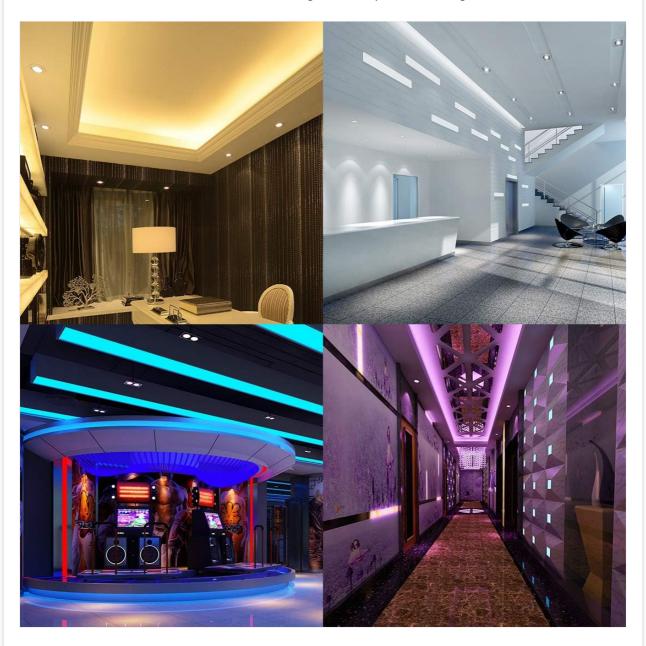


Image 5.2: Examples of the LED strip used in architectural lighting, bars, and home decoration.

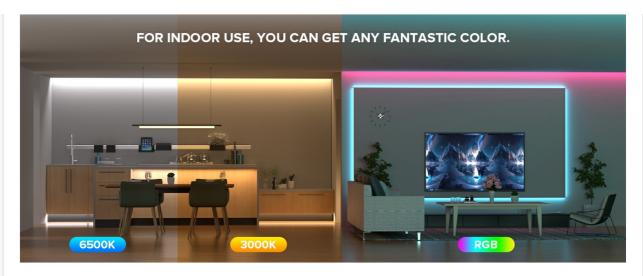


Image 5.3: Demonstrating the ability to achieve various colors and white temperatures (6500K, 3000K, RGB) for indoor use.

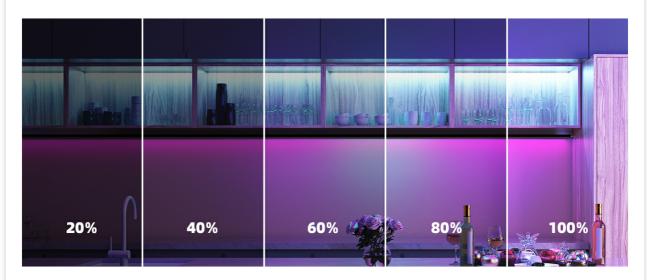


Image 5.4: Visual representation of the LED strip's dimming capabilities, from 20% to 100% brightness.

#### 6. MAINTENANCE

- Cleaning: Gently wipe the LED strip with a soft, dry cloth to remove dust. Avoid using harsh chemicals or abrasive materials. Ensure the strip is powered off before cleaning.
- Inspection: Periodically check the strip and connections for any signs of wear or damage.
- Storage: If storing the strip, ensure it is rolled neatly and kept in a dry, cool place away from direct sunlight.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
LED strip does not light up.	No power, incorrect voltage, faulty connection, faulty controller.	Check power supply connection and output. Ensure controller is correctly wired and functioning. Verify strip is connected securely.
Some LEDs are not lighting up or show incorrect colors.	Damaged section, poor connection, incorrect wiring.	Inspect the strip for physical damage. Check connections for loose wires or improper seating. Ensure correct polarity and pin assignment.

Problem	Possible Cause	Solution	
Lights flicker or dim unexpectedly.	Insufficient power supply, loose connection, controller issue.	Ensure power supply wattage is adequate for the strip length. Check all connections. Test with a different controller if possible.	
Remote/App control is unresponsive.	Controller not paired, battery low (for remote), Wi-Fi/Bluetooth issue.	Refer to your controller's manual for pairing instructions.  Replace remote batteries. Check Wi-Fi network or  Bluetooth connection.	

# 8. Specifications

Feature	Detail
Brand	BTF-LIGHTING
Model Number	RGBWW55M505060LW65
LED Type	5050SMD RGBCCT (5 Colors in 1 LED)
Voltage	12 Volts (DC)
Power (per meter)	6W-18W/m (Total: 30W-90W for 5m)
LEDs per Meter	60 LEDs/m
Total LEDs	300 LEDs (for 5m)
Color Temperature	2700K-6500K Tunable White
Light Color	Multicolor (RGB), Warm White, Cool White
Strip Length	16.4 ft (5 Meters)
PCB Color	White PCB
PCB Width	12mm
Water Resistance	IP65 (Silicone Coating)
Indoor/Outdoor Usage	Indoor Use Only
Included Components	6 PIN Connector
Certification	UL Listed
Average Life	10,000 Hours

Image 8.1: Dimensional specifications for 12V and 24V 5050 RGBCCT LED strips.

#### **Product Information Sheet**

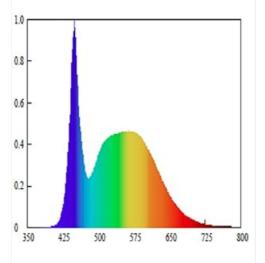
Supplier's addr 022882 Bucure:		ASUS SRL, Strada RA	DOWANU Nr.7 Bloc 42.	scara 1. Etaj 5 Ap29
Model identifie	r: 5050 RGB CCT	LEO Strip		
Type of light so	urce:			
Lighting techno	logy used:	LED	Non-directional or directional:	NDLS
Light source cap (or other electri		Connecting leads		
Mains or non-m	iales:	NMLS	Connected light source (CLS):	No
Colour-tuneable	e light source:	Yes	Envelope:	-
High luminance	light source:	No		
Anti-glare shield	f:	No	Dimmable:	No
		Product parar	meters	
Parameter		Value	Parameter	Value
		General product p	arameters:	
	mption in on- 00 h), rounded st integer	90	Energy efficiency class	E.
Useful luminous flux (фuse), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)		9 700 in Sphere (360°)	Correlated colour temperature, rounded to the near- est 100 K, or the range of correlat- ed colour temper- atures, rounded to the nearest 100 K, that can be set	6 500
On-mode power (P <sub>an</sub> ), ex- pressed in W		90,0	Standby power (P <sub>sh</sub> ), expressed in W and rounded to the sec- ond decimal	0,00
(Pret) for CLS,	tandby power expressed in W the second dec-	-	Colour rendering in- dex, rounded to the nearest integer, or the range of CRI-val- ues that can be set	82
Outer dimen-	Height	3	Spectral power dis- tribution in the range 250 nm to 800 nm, at full-load	See image in last page
sions without	Width	12		
separate con-	Depth	5,000		

ing control parts and non- lighting con- trol parts, if any (millime- tre)			
Claim of equivalent power <sup>(x)</sup>	- 2	If yes, equivalent power (W)	7.0
		Chromaticity coordi- nates (x and y)	0,308
Parameters for LED and OLED light	sources:		
R9 colour rendering index value	1	Survival factor	1,00
the lumen maintenance factor	0,98		

Or not applicable;

(b).- | not applicable;

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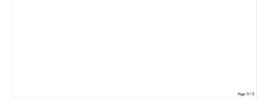


Image 8.2: EPREL energy efficiency label for the BTF-LIGHTING 5050 RGB CCT LED Strip. For more details, visit https://eprel.ec.europa.eu/qr/1506152

#### 9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the product packaging or contact BTF-LIGHTING customer service directly. Keep your purchase receipt for any warranty claims.

#### Related Documents - RGBWW55M505060LW65

#### Multilingual Index

# English P.1 Deutsch P.12 Español P.22 Français P.32 Italiano P.42 Nedezlando P.82

#### BTF-LIGHTING 5050 SMD RGBCCT LED Strip User Manual

Comprehensive user manual for the BTF-LIGHTING 5050 SMD RGBCCT LED Strip, detailing product specifications, installation instructions, and troubleshooting for this versatile 5-color-in-1 LED strip.

#### **Multilingual Index**

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Nederlands	P.57

#### BTF-LIGHTING 5050SMD RGBW LED Strip User Manual

User manual for BTF-LIGHTING 5050SMD RGBW 4 Colors in 1 LED Strip, covering product specifications, installation guides, precautions, and troubleshooting. Learn to set up and use your LED lighting.

#### **Multilingual Index**

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Italiano	P.33
Nederlands	P.41

#### BTF-LIGHTING 5050 SMD RGBW LED Strip User Manual

User manual for the BTF-LIGHTING 5050 SMD RGBW LED Strip, detailing product parameters, installation, precautions, and troubleshooting for optimal lighting solutions.

# Multilingual Index BTF-LIGHTING FCOB SPI RGBCCT LED Strip User Manual User manual for the BTF-LIGHTING FCOB SPI RGBCCT LED Strip, detailing product Français----- P.28 specifications, installation, precautions, and recommended accessories. **Multilingual Index** BTF-LIGHTING FCOB PWM RGBCCT LED Strip User Manual -- P.01 -- P.14 -- P.26 English -Deutsch User manual for the BTF-LIGHTING FCOB PWM RGBCCT LED Strip, detailing product Español ---Français ---Italiano ----日本語 -----P.38 parameters, installation instructions, precautions, and controller compatibility. Nederlands -**Multilingual Index** BTF-LIGHTING WS2805 IC RGBCCT LED Strip User Manual Comprehensive user manual for the BTF-LIGHTING WS2805 IC RGBCCT Addressable LED Strip, Español -----Français -----Italiano ---------- P.25 -- P.36 -- P.47 -- P.58 covering specifications, installation, precautions, and controller compatibility.