## BTF-LIGHTING FCOB5M24VWS2811CCTSP547E

# BTF-LIGHTING FCOB Addressable CCT WS2811 IC COB LED Strip Kit Instruction Manual

Model: FCOB5M24VWS2811CCTSP547E

## Introduction

This manual provides comprehensive instructions for the BTF-LIGHTING FCOB Addressable CCT WS2811 IC COB LED Strip Kit. This kit features tunable white light (3000K-6000K) with individual IC control, allowing for dynamic chasing effects. It includes a Bluetooth/WiFi controller compatible with Alexa and Google Home for versatile control options. Please read this manual thoroughly before installation and operation to ensure proper use and safety.




Image: Overview of the FCOB WS2811 IC CCT LED Strip Light Kit components.

## Package Contents

Verify that all items listed below are included in your package:

- 1 x FCOB WS2811 CCT IC LED strip (16.4FT / 5 meters)
- 1 x SP547E LED controller
- 1 x DC24V power supply
- 1 x 3PIN Male Connector
- 3 x Fixed Clips

- 1 x Strip-to-strip connector
- 2 x Wire-to-strip connectors

## Specifications

| | |
|---|---|
| **Model Number** | FCOB5M24VWS2811CCTSP547E |
| **Brand** | BTF-LIGHTING |
| **Light Source Type** | FCOB LED |
| **LED Density** | 576 LEDs/meter |
| **IC Chip** | WS2811 (1 IC drives 48 LEDs) |
| **Color Temperature** | Tunable 3000K-6000K |
| **Color Rendering Index (CRI)** | 90+ |
| **Input Voltage** | DC 24V |
| **Wattage** | 24 Watts |
| **Strip Length** | 16.4 Feet (5 meters) |
| **Strip Width** | 10mm |
| **Connectivity** | Bluetooth, Wi-Fi (2.4GHz) |
| **Control Methods** | BanlanX App, RF Remote, Control Box, Voice (Alexa/Google Home) |
| **Water Resistance** | IP30 (Non-waterproof, Indoor Use Only) |

## Safety Information

- Ensure the power supply voltage matches the LED strip's requirements (DC 24V). Incorrect voltage can damage the strip.
- This product is designed for indoor use only (IP30 rated). Do not expose to water or high humidity.
- Do not connect the LED strip directly to AC power. Always use the provided DC24V power supply.
- Avoid bending the LED strip sharply or applying excessive force, as this may damage the internal circuitry.
- Keep out of reach of children.
- Disconnect power before any installation, maintenance, or troubleshooting.

## Setup Instructions

### 1. Basic Connection

Connect the components as shown in the wiring diagram:

1. Connect the LED strip to the SP547E controller.
2. Connect the DC24V power supply to the SP547E controller.
3. Plug the power supply into a standard electrical outlet.

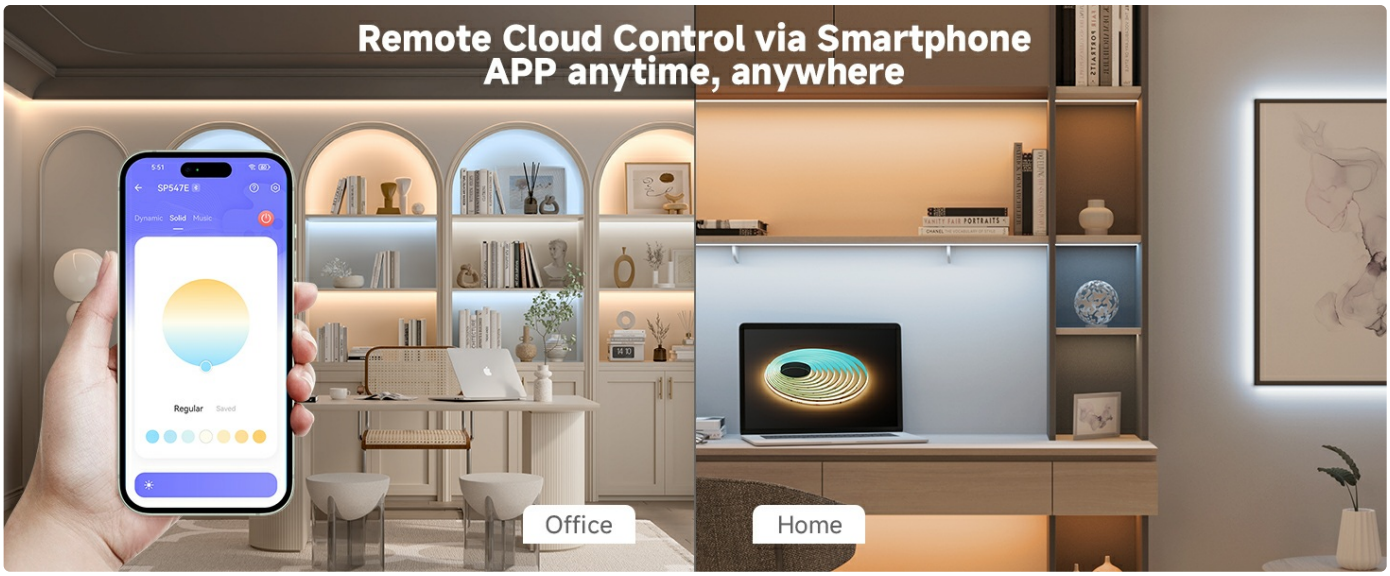



Image: Wiring diagram for the LED strip kit.

## 2. Cutting and Linking the LED Strip

The FCOB LED strip is flexible and can be cut to your desired length at designated cut marks. It also supports end-to-end series connection.

- **Cutting:** Locate the copper cut marks on the LED strip. Use sharp scissors to cut precisely along these lines. The interval between two cut marks is approximately 3.26 inches (83mm).
- **Connecting:** Use the provided 3PIN connectors or wire-to-strip connectors for linking sections. Ensure the positive and negative poles correspond correctly.




Image: Steps for cutting and connecting the LED strip using a connector.

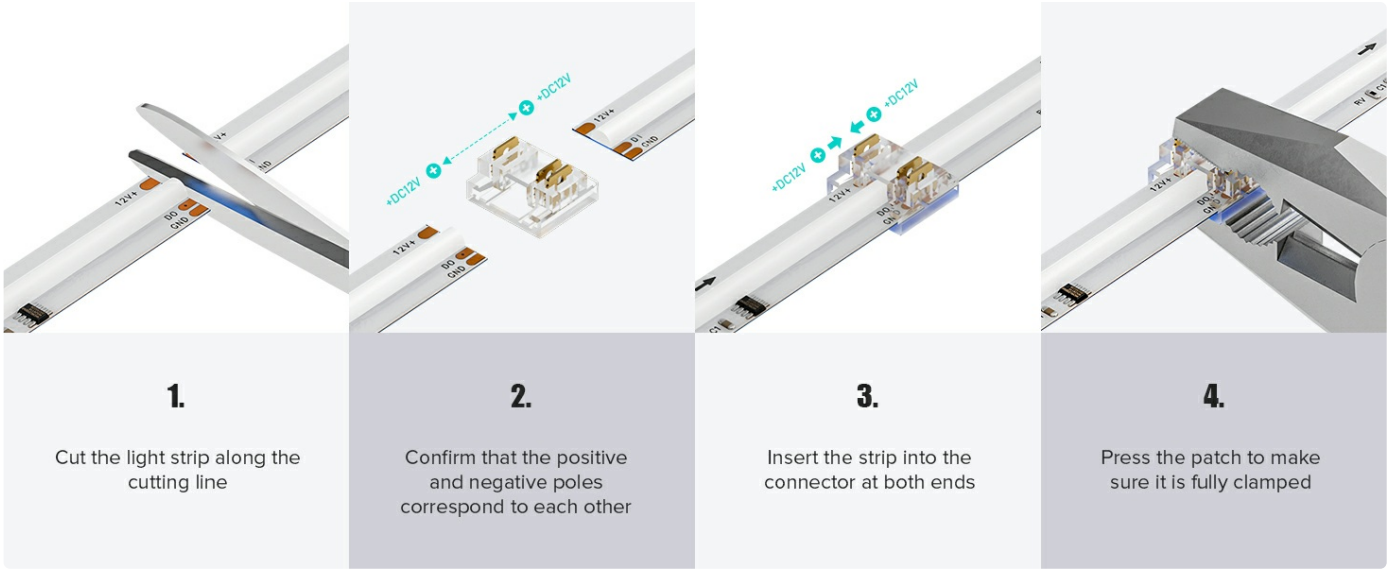



Image: Steps for cutting and connecting the LED strip using wire connectors.

**Important:** Ensure the data flow direction on the LED strip remains consistent when connecting multiple segments. Inconsistent data flow can lead to signal errors.

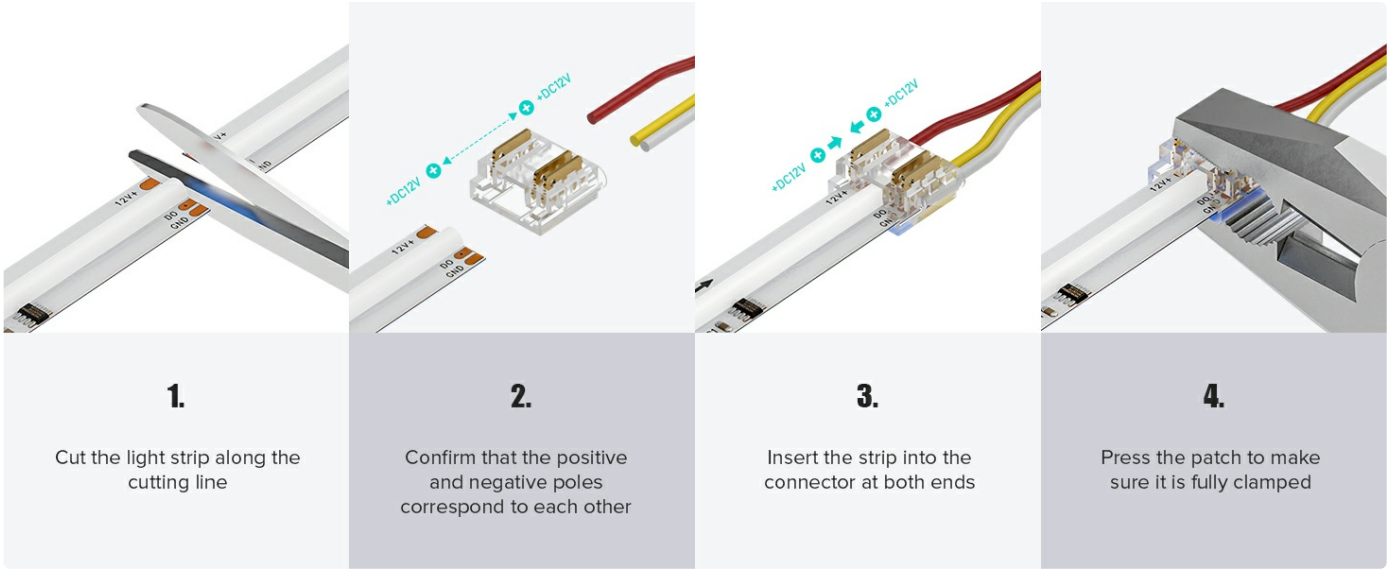



Image: Correct and incorrect data flow for LED strip connections.

For corner connections or transparent middle connections, use appropriate connectors as illustrated:

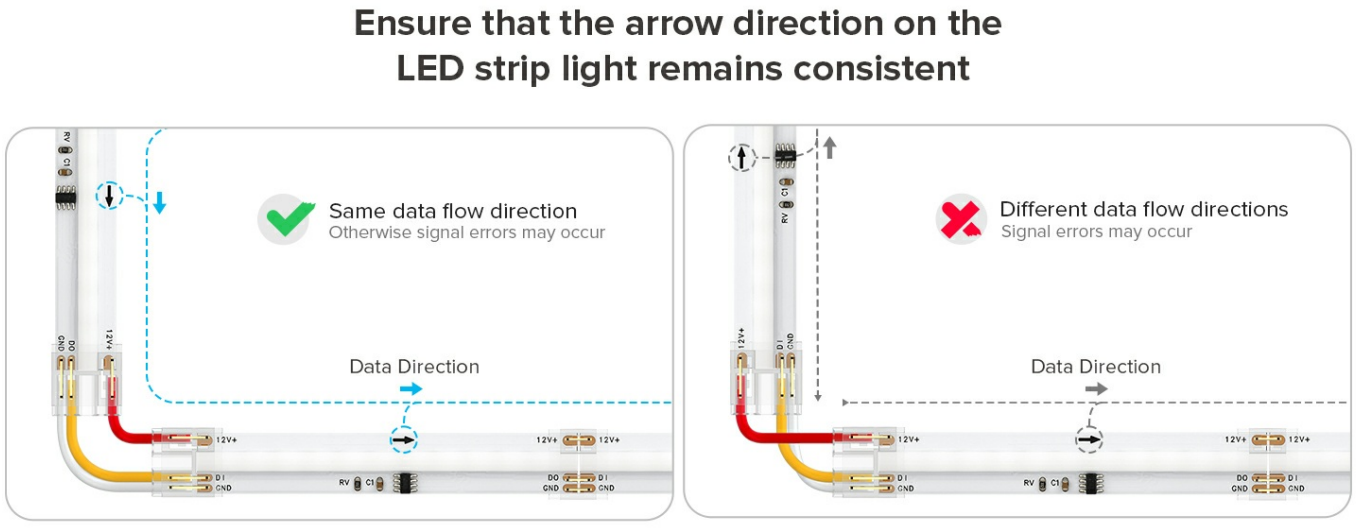



Image: Various connection methods for LED strips, including L-shaped and transparent middle connections.

## Operating Instructions

### Control Methods Overview

The LED strip kit offers multiple control options:

- **BanlanX App:** For comprehensive control via smartphone (WiFi/Bluetooth).
- **RF Remote:** Included remote for basic functions.
- **Control Box:** Physical buttons on the controller for quick adjustments.
- **Voice Control:** Compatible with Amazon Alexa and Google Assistant.

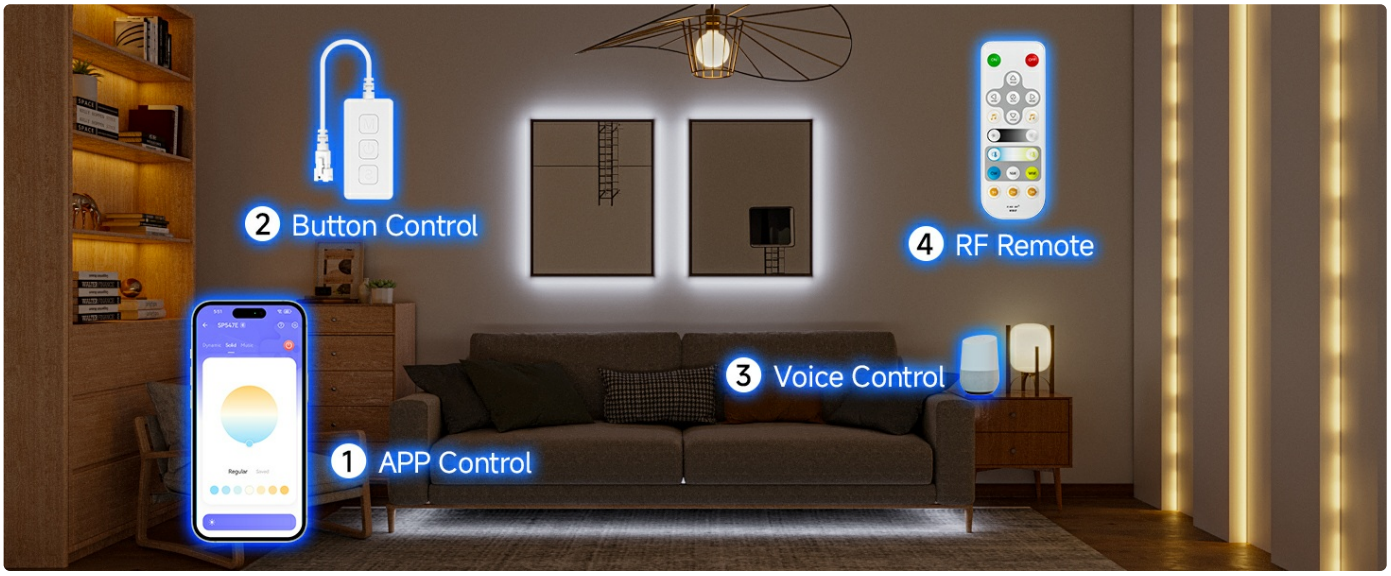



Image: Overview of the four available control methods.

### 1. BanlanX App Control

Download the BanlanX App from your smartphone's app store. The SP547E controller supports WiFi, Bluetooth, and remote cloud connections.

- **Brightness & Color Temperature:** Adjust light intensity and color temperature (3000K-6000K).
- **Dynamic Modes:** Choose from 10 dynamic chasing white light effects.
- **Music Modes:** Synchronize lighting effects with music via phone mic, player streaming, or built-in mic (5 modes).
- **Timer & ON/OFF:** Schedule lighting on/off times.

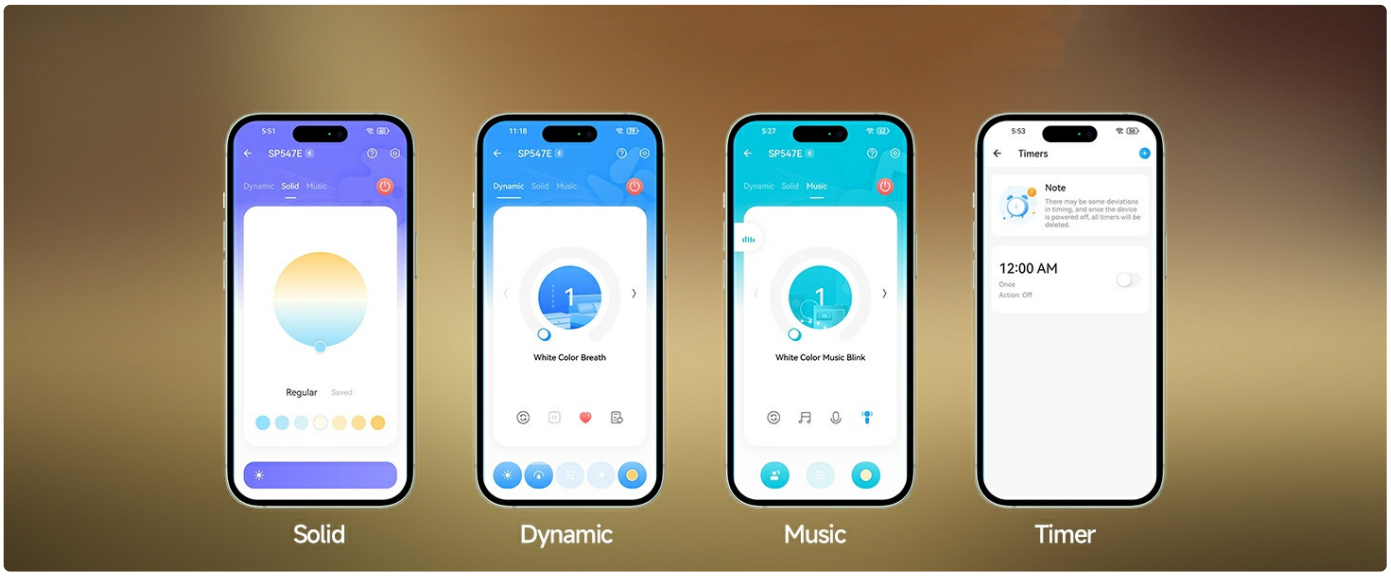



Image: Remote cloud control via smartphone app.

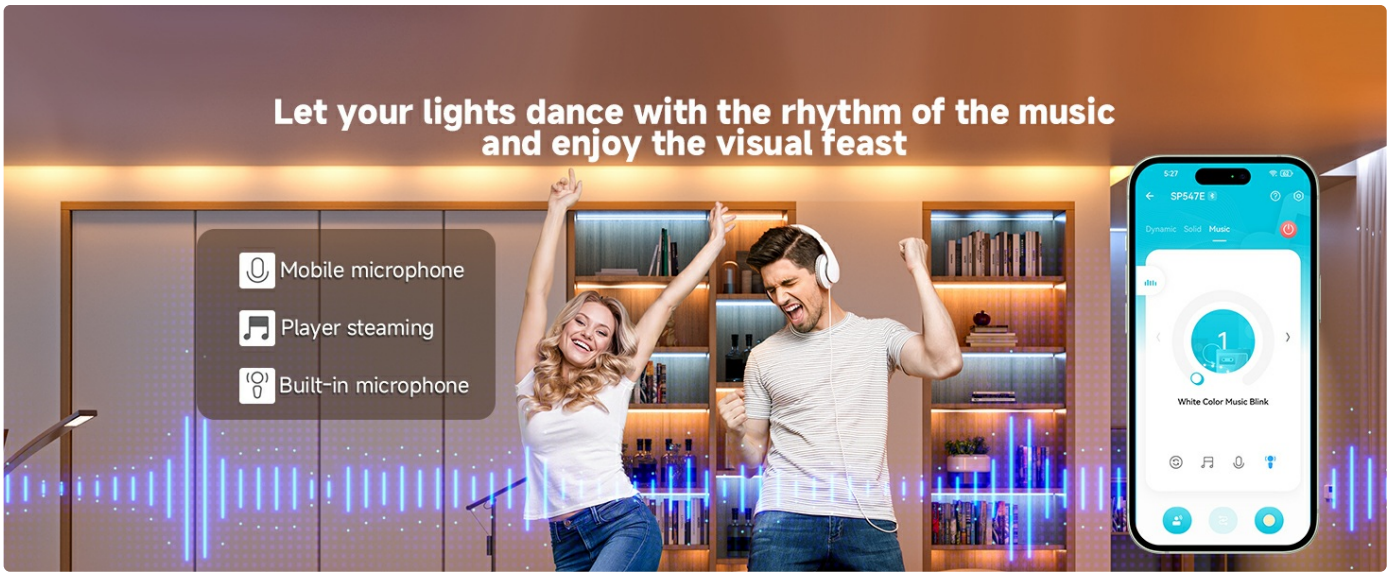



Image: LED strip lights syncing with music via mobile microphone, player streaming, or built-in microphone.

## 2. Voice Control (Alexa/Google Home)

The SP547E controller integrates with smart speaker platforms. Follow the BanlanX App instructions to link your device with Amazon Alexa or Google Assistant.

- Use voice commands to turn lights on/off, adjust brightness, and change color temperature.

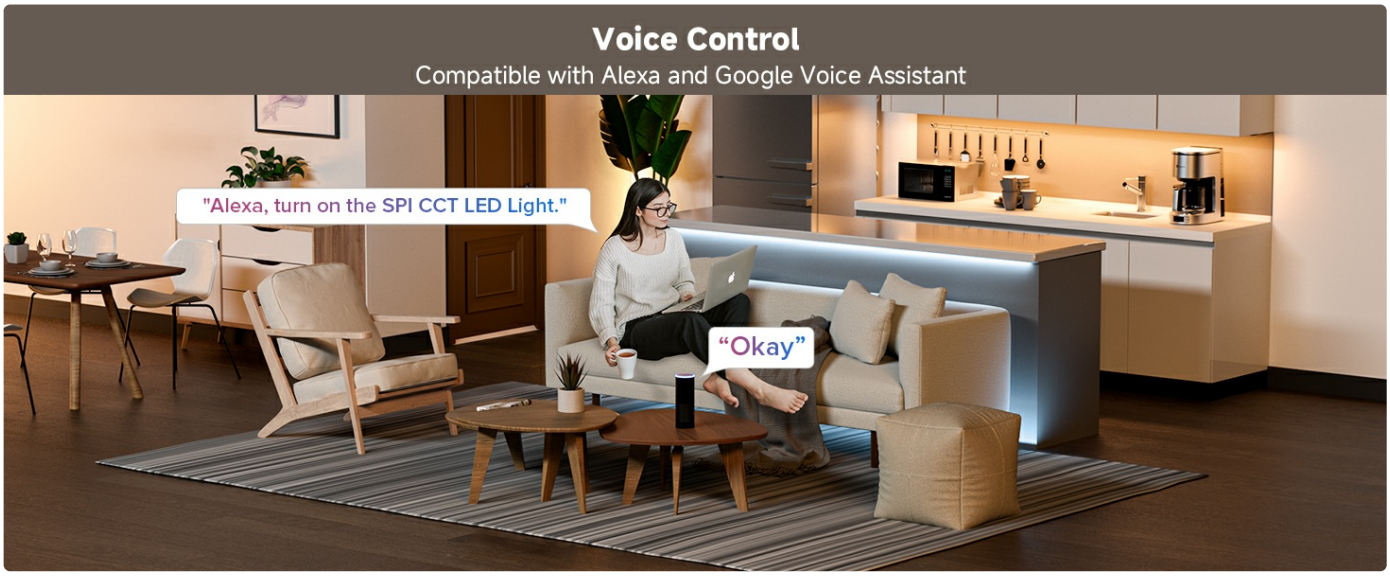



Image: Voice control compatibility with Alexa and Google Assistant.

## 3. RF Remote Control

The included RF remote provides direct control over various functions:

| | |
|---|---|
| **1. ON Button** | Turns the LED strip ON. |
| **2. OFF Button** | Turns the LED strip OFF. |
| **3. Speed +/-** | Adjusts the speed of dynamic modes. |
| **4. Mode +/-** | Cycles through dynamic lighting modes. |
| **5. All Effect Cycle** | Cycles through all available effects. |
| **6. Music +/-** | Cycles through music modes. |

| | |
|---|---|
| **7. Brightness +/-** | Adjusts the light brightness. |
| **8. Color Temperature +/-** | Adjusts the white light color temperature. |
| **9. Preset White Colors** | Direct selection for Cool White (6000K), Natural White (4000K), Warm White (3000K). |
| **10. Timed Off** | Sets a timer for 1H/2H/3H delay-off. |

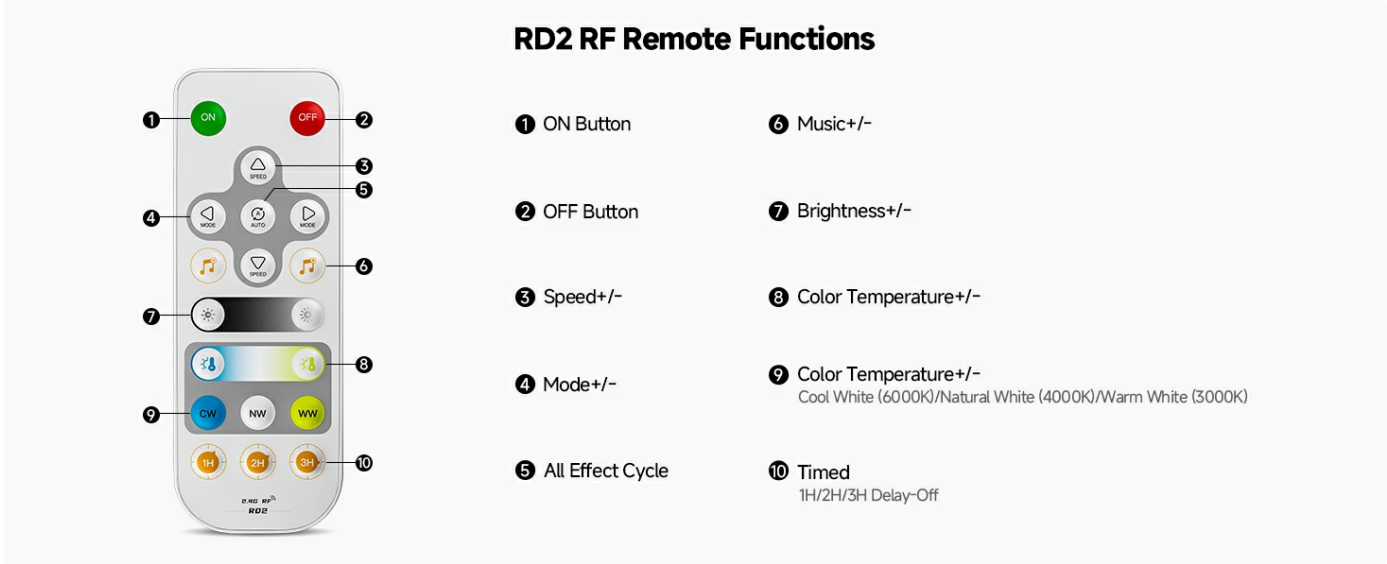



Image: Functions of the RD2 RF Remote Control.

## 4. Lighting Effects and Modes

The FCOB LED strip supports various lighting effects:

- **Dynamic Chasing White Light:** The WS2811 IC allows for individual control of LED segments, creating flowing and chasing white light patterns.
- **Static White Light:** Select a fixed color temperature from warm white (3000K) to cool white (6000K).
- **Music Synchronization:** Lights react to sound, creating an immersive experience.

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Video: Demonstration of dynamic, static, and music modes for the FCOB WS2811 IC CCT LED Strip with SP547E controller.

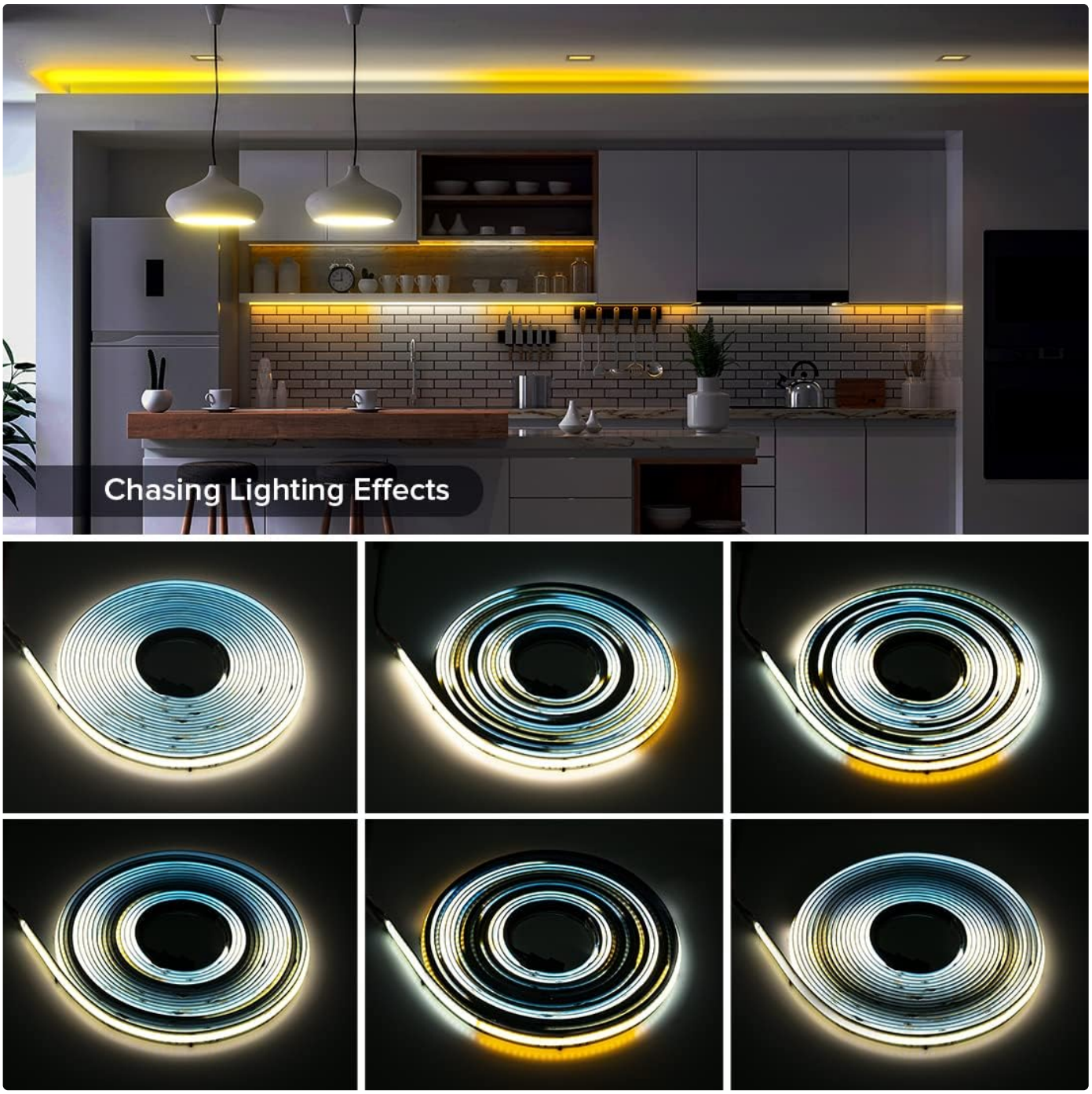



Image: Examples of chasing lighting effects.




Image: Accent and ambient lighting applications.

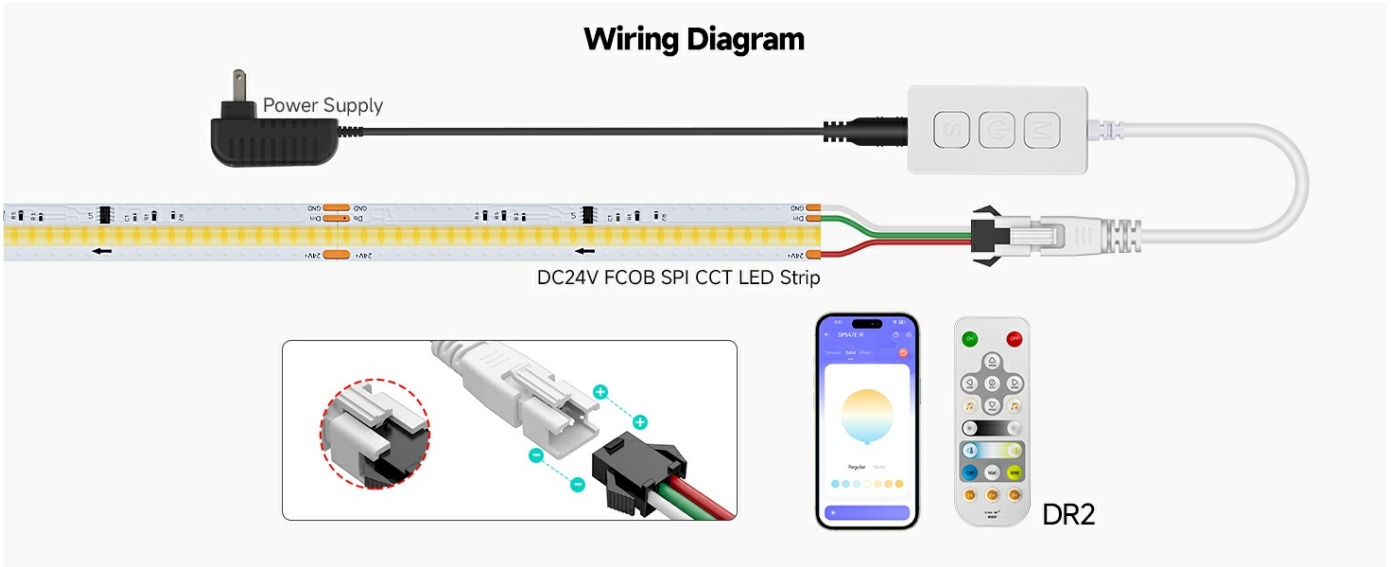



Image: Brightness levels from 20% to 100% in a kitchen setting.

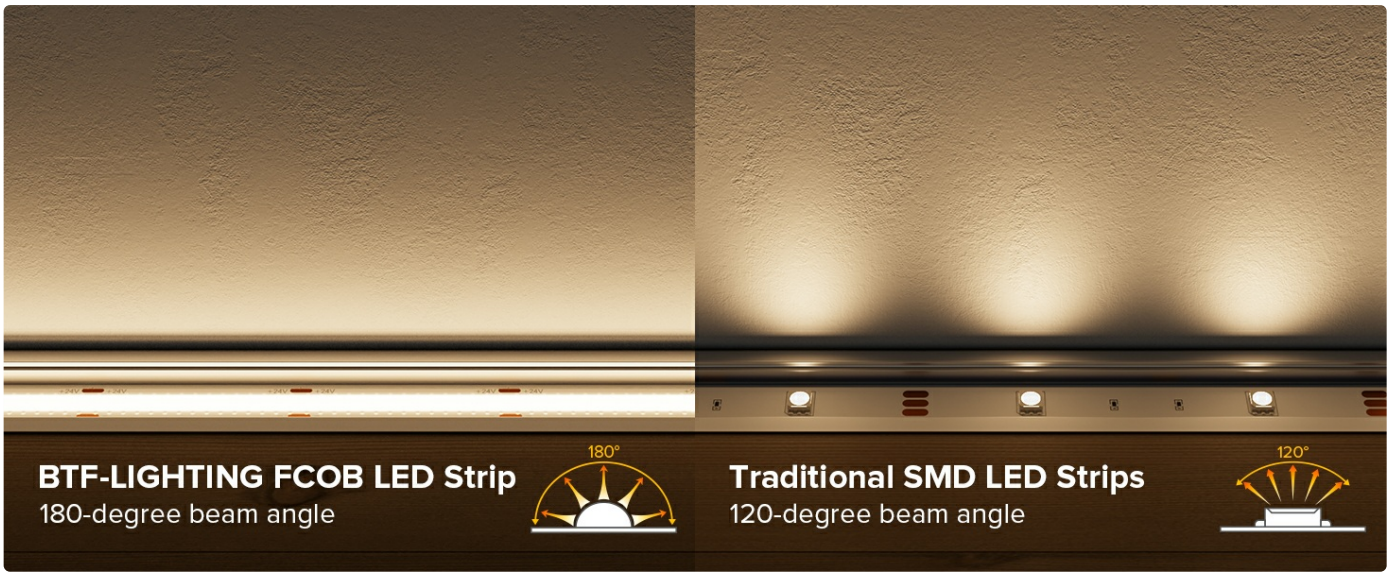



Image: CRI comparison showing enhanced color rendering with CRI 90+.

## Maintenance

- **Cleaning:** Gently wipe the LED strip with a dry, soft cloth to remove dust. Do not use liquid cleaners or abrasive materials.
- **Storage:** If storing the LED strip, ensure it is coiled loosely and kept in a dry, cool environment away from direct sunlight.
- **Inspection:** Periodically check connections for any signs of wear or damage.

## Troubleshooting

| Issue | Possible Cause | Solution |
|---|---|---|
| LED strip does not light up. | No power, incorrect connection, faulty power supply/controller. | Check power supply connection to outlet and controller. Ensure all connectors are securely attached and polarity is correct. Verify power supply is functioning. |
| Lights flicker or show incorrect patterns. | Loose connection, inconsistent data flow direction, power supply insufficient. | Secure all connections. Ensure data flow arrows on the strip are consistent. Check if the power supply meets the strip's wattage requirements. |
| Remote control not working. | Battery depleted, remote out of range, interference. | Replace remote battery. Ensure remote is within range of the controller. Minimize obstructions or other RF devices. |
| App cannot connect to the controller. | Bluetooth/WiFi off, incorrect network, controller not in pairing mode. | Ensure Bluetooth/WiFi is enabled on your phone. Connect to a 2.4GHz WiFi network. Follow app instructions to put the controller into pairing mode. |

## 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 warranty claims.

## 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