GIDERWEL GD-CW02

GIDERWEL Smart 5-in-1 WiFi LED Controller Instruction Manual

Model: GD-CW02 | Brand: GIDERWEL

1. Introduction

The GIDERWEL Smart 5-in-1 WiFi LED Controller is designed to manage various types of LED strip lights, including monochrome, warm white/cool white (WW CW), RGB, RGBW, and RGB+CCT. This controller offers smart control capabilities through a smartphone application and voice commands via compatible smart assistants. It operates on a 2.4G WiFi network, providing versatile lighting control for different environments.

2. What's in the Box

- 1 x GIDERWEL WT5 WiFi LED Controller

3. Key Features

- **5-in-1 Compatibility:** Supports monochrome, WW CW, RGB, RGBW, and RGB+CCT LED strips. The standard output mode is RGBCCT (5 channels). The light strip type can be configured using the 'Set' button. Note: Not compatible with addressable LED strips (e.g., WS2811, WS2812).
- **Smartphone App Control:** Control your lights from anywhere using the Smart Life or TUYA APP. Create schedules and automations. Requires a 2.4G WiFi network (5G networks are not supported).
- **Voice Control:** Compatible with Amazon Alexa and Google Assistant for hands-free control of light on/off, color changes, and dimming.
- **Group Control:** Add multiple LED controllers and group them for simultaneous wireless control.
- **Scene Modes:** Synchronize LED lights with music and change atmosphere lighting with one click to suit various scenes and occasions.

4. Setup Instructions

4.1 Wiring the LED Controller

Ensure the power supply is disconnected before wiring. The controller supports various LED strip types. Connect the LED strip wires to the corresponding output terminals on the controller and the power supply to the input terminals.

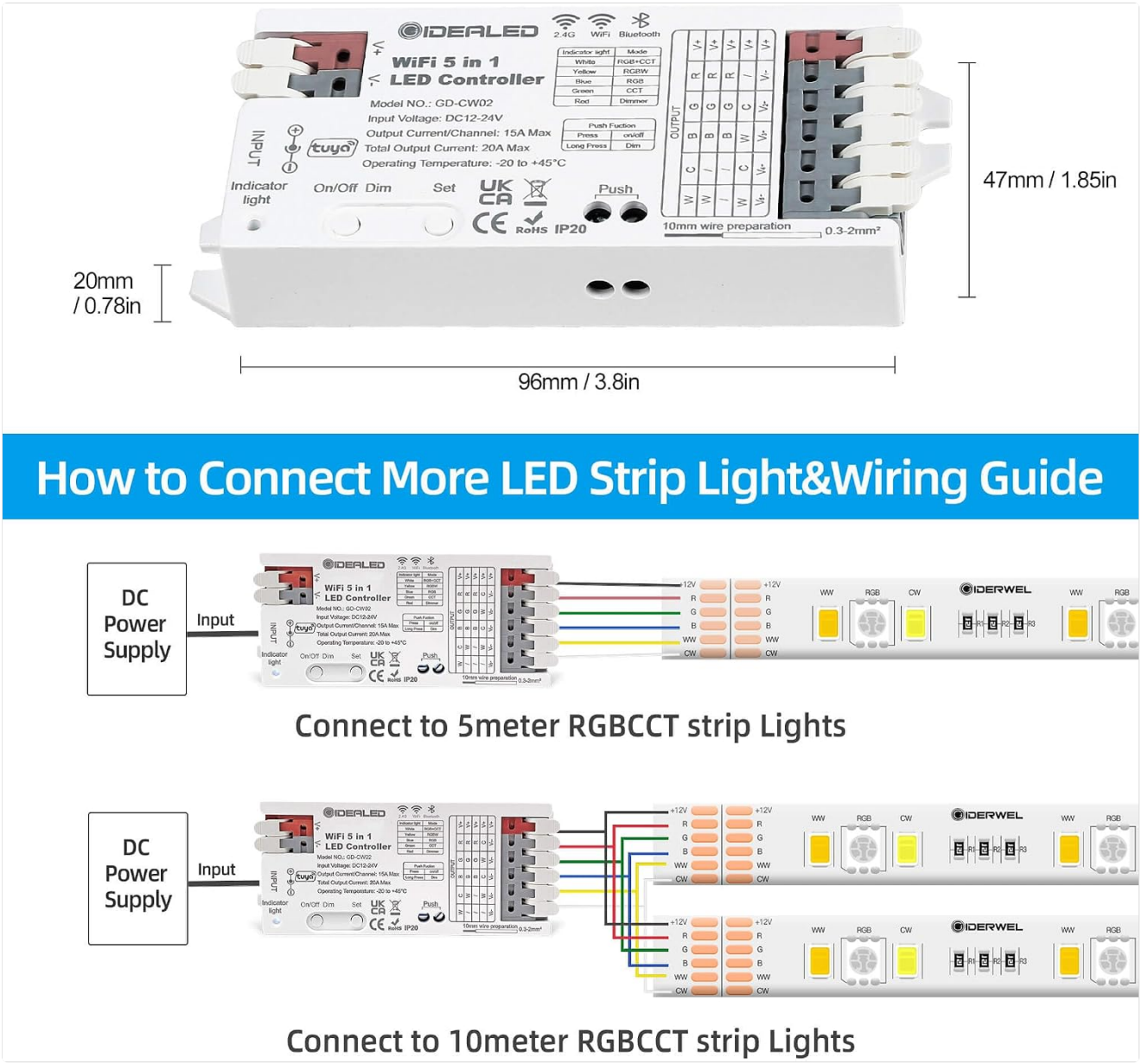


Figure 1: Wiring Diagram for various LED strip types. Connect the DC power supply to the input and the LED strip to the output terminals according to the strip type.

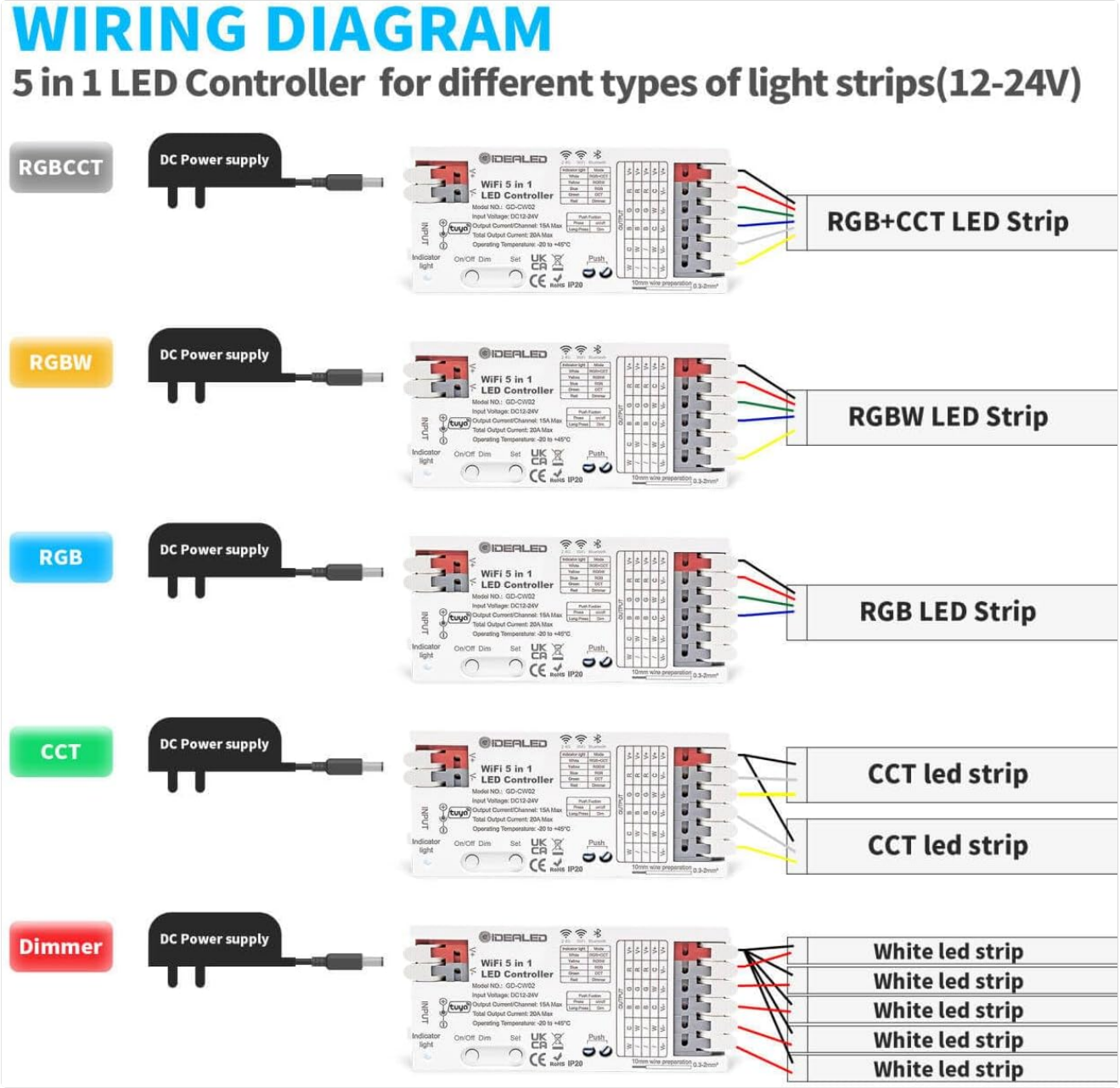


Figure 2: Guide for connecting multiple LED strips (e.g., 5-meter and 10-meter RGBCCT strips) to the controller using a DC power supply.

4.2 App Installation and Pairing

Download and install the Smart Life or TUYA app on your smartphone. Power on the controller and the connected LED lights. Follow the in-app instructions to connect the controller to your 2.4G WiFi network.



Figure 3: The Smart Life / TUYA app interface for controlling the LED controller.

Video 1: This video demonstrates the setup process for the GIDERWEL 5-in-1 WiFi LED Controller, including app download, powering the device, and connecting it to the app. It also shows tool-free wiring and compatibility with various LED strip types.

5. Operating Instructions

5.1 App Control

Once paired, use the Smart Life or TUYA app to control your LED lights. The app allows for:

- **Color Selection:** Choose from a wide spectrum of colors.
- **Brightness Adjustment:** Dim or brighten your lights.
- **Color Temperature Control:** Adjust between cold and warm white tones.
- **Scene Modes:** Select pre-set scenes or create custom ones.
- **Scheduling:** Set timers for lights to turn on/off or change modes automatically.



Figure 4: Setting timers and schedules within the app.

5.2 Voice Control

Integrate your GIDERWEL controller with Amazon Alexa or Google Assistant for convenient voice control. Examples of commands include:

- "Alexa, turn on the kitchen strip light."
- "Hey Google, change the kitchen strip light to warm white."
- "Alexa, dim the living room lights to 50%."



Figure 5: Voice control setup with Amazon Alexa.

Video 2: This video showcases the smart home lighting experience with the GIDERWEL WiFi RGBWW LED Strip Lights, demonstrating app control for color and brightness, as well as voice control integration with Alexa and Google Assistant.

6. Specifications

Feature	Specification
Model Number	GD-CW02
Input Voltage	DC12-24V
Output Current/Channel	15A Max
Total Output Current	20A Max
Operating Temperature	-20 to +45°C
Connectivity	2.4G WiFi, Bluetooth

Control Method	App, Voice Control (Alexa, Google Assistant)
Light Source Type	LED
Indoor/Outdoor Usage	Indoor
Material	Plastic
Item Weight	2.39 ounces
Item Length	4.5 Inches

7. Troubleshooting

- **Controller not pairing:** Ensure your WiFi network is 2.4G. Check that the controller is powered on and the indicator light is blinking, indicating pairing mode. If not, press and hold the 'Set' button for 5 seconds to enter pairing mode.
- **Lights not responding:** Verify all wiring connections are secure and correct according to the wiring diagrams. Check the power supply to ensure it is providing the correct voltage (DC12-24V).
- **Inconsistent colors or missing channels:** Recheck the wiring of the LED strip to the controller. Ensure each color channel (R, G, B, W, CW) is connected to its designated terminal.
- **Voice control issues:** Confirm that the controller is successfully linked to your Alexa or Google Assistant account within the Smart Life/TUYA app. Ensure your smart assistant device is online and within range.
- **App connectivity problems:** Check your home WiFi signal strength. Restart your router, smartphone, and the LED controller.

8. Maintenance

To ensure optimal performance and longevity of your GIDERWEL Smart 5-in-1 WiFi LED Controller:

- Keep the controller in a dry environment, away from moisture and extreme temperatures.
- Clean the controller's exterior with a soft, dry cloth. Do not use liquid cleaners or solvents.
- Avoid placing heavy objects on the controller or exposing it to physical impact.
- Regularly check wiring connections for any signs of wear or looseness.

9. Warranty and Support

For detailed warranty information and technical support, please refer to the documentation included with your product or visit the official GIDERWEL website. Contact information for customer service is typically provided on the product packaging or within the Smart Life/TUYA application.