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Vrabcry 5-48V UFO

Vrabcry Smart UFO LED Controller DC 5V User Manual

Model: 5-48V UFO

1. INTRODUCTION

Welcome and thank you for choosing the Vrabcry Smart UFO LED Controller. This manual provides essential information for the safe installation, operation, and maintenance of your device. Please read it thoroughly before use and retain it for future reference.

1.1 Package Contents

- 1x UFO (WiFi+Ble) LED Controller
- 1x User Manual

2. IMPORTANT SAFETY INSTRUCTIONS

- Ensure the input voltage matches the controller's specification (DC 5V for this model). Incorrect voltage can damage the device.
- Do not exceed the maximum output current of 15A or control more than 2048 pixels.
- Keep the controller away from water, moisture, and high humidity environments.
- Do not attempt to disassemble, modify, or repair the device. Refer all servicing to qualified personnel.
- Install the controller in a well-ventilated area to prevent overheating.

3. PRODUCT OVERVIEW

3.1 Controller Features

- High-quality WiFi+Bluetooth dual-mode smart controller for reliable connectivity.
- Mobile APP control (Surplife APP) for individual and group management of LED strips.
- Extensive color customization with 16 million RGB color adjustments, DIY application, and adjustable brightness/speed.
- Music rhythm mode for dynamic light synchronization with audio.
- Scenario function with multiple built-in profiles for various moods and activities.
- Timing switch, delay switch, and remote control functions for automated operation.

- Supports various addressable IC types: WS2812B, SM16703, SM16704, WS2811, UCS1903, SK6812, INK1003, UCS2904B.

3.2 Device Layout

The Vrabcry Smart UFO LED Controller features clearly labeled input and output terminals, along with a central control button and QR codes for easy access to resources.



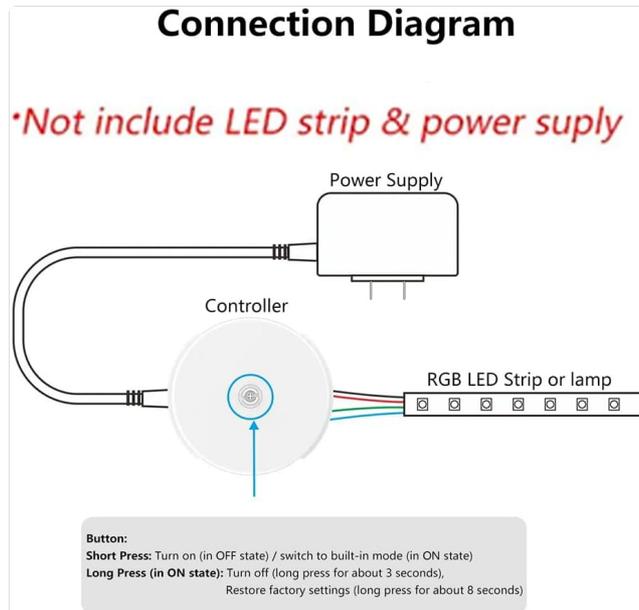
This image displays the top view of the Vrabcry Smart UFO LED Controller. It shows the input terminals (DC:5V, V+, V-) and output terminals (V+, DAT, GND for two channels). Also visible are QR codes for the Surplife APP and instructions, along with specifications like "Max Output Current: 15A" and "Number of IC Lamps: 2048".



This image shows a side view of the controller, highlighting the DC 5V power input jack and the V+ and V- screw terminals for power input.



This image presents another side view, focusing on the output screw terminals for connecting LED strips, labeled V+, DAT, and GND.



This image shows the top surface of the controller with a central button. This button is used for power control and mode switching.

4. SETUP

4.1 Installation and Wiring

Follow the diagram below for proper connection of the LED controller, power supply, and LED strip. Ensure all connections are secure before powering on the device.

PRODUCT DESCRIPTION



GROUP CONTROL

- Multiple simultaneous controls
- Single independent control

MUSIC MODE

- The lights dance to the rhythm of the music



This diagram illustrates the wiring connections. A power supply connects to the controller's input. The controller's output connects to an RGB LED strip or lamp. Note that the LED strip and power supply are not included.

4.2 Button Functions

The central button on the controller has multiple functions:

- **Short Press:** Turns the device ON (if OFF) or switches between built-in modes (if ON).
- **Long Press (approx. 3 seconds):** Turns the device OFF.
- **Long Press (approx. 8 seconds):** Restores factory settings.

4.3 APP Installation

The controller operates with the Surplife APP. Scan the QR code below or visit the provided link to download the application for your mobile device (Android 7.0 / iOS 12.0 or higher required).

Download Surplife APP



QR code for Surplife APP download.

For detailed instructions on using the APP and advanced features, refer to the comprehensive online manual:

Online Instruction Manual



QR code for online instructions.

5. OPERATING INSTRUCTIONS

5.1 Using the Surplife APP

The Surplife APP provides full control over your LED lighting system. After installing the APP and pairing your controller, you can access various functions:

5.1.1 Group Control

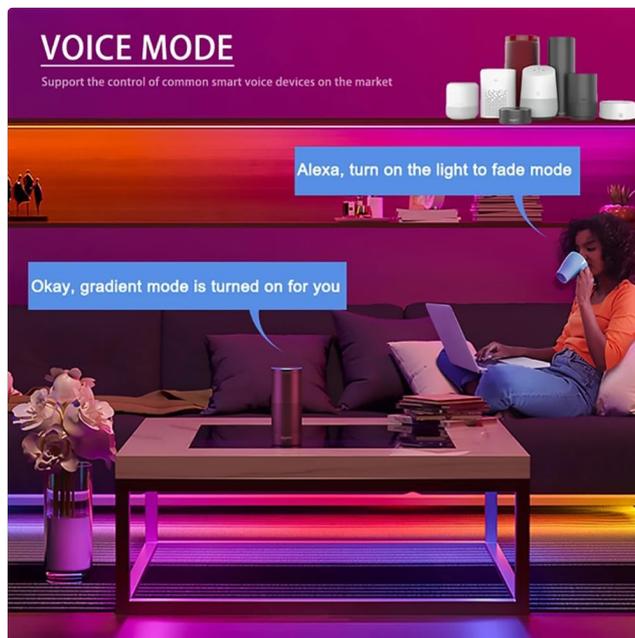
Manage multiple LED strips simultaneously or control them independently. This feature allows for synchronized lighting across different areas or unique settings for each strip.

5.1.2 Music Rhythm Mode

Activate the music rhythm mode to synchronize your LED lights with audio. The lights will dynamically change patterns and colors in response to the music's beat and melody.

5.1.3 Voice Control

Integrate your controller with common smart voice devices for convenient, hands-free operation. Use voice commands to adjust settings, change colors, or turn lights on/off.



This image illustrates the various smart features: group control (managing multiple lights from a smartphone), music rhythm mode (lights reacting to music), and voice control (interacting with smart speakers).

5.1.4 Color Adjustment and DIY

Explore 16 million RGB color options, create custom color schemes, and precisely adjust brightness and speed through the intuitive Surplife APP interface.

5.1.5 Timing and Scenario Functions

- Set schedules for automatic turning ON/OFF of lights or activation of specific modes at designated times.
- Choose from built-in scenarios or create custom ones to instantly set the perfect ambiance for different activities or moods.

6. TECHNICAL SPECIFICATIONS

Parameter	Value
Input Voltage	DC 5V
Control Principle	WiFi + Bluetooth (BLE)
APP Software Type	Surplife APP
Mobile Version Requirement	Android 7.0 / iOS 12.0 or higher
Max. Output Current	15A (5A/CH)
Max. Control ICs (Pixels)	≤ 2048 pixels
Output Signal	SPI (TTL)
Operating Temperature	-20°C to +55°C

Parameter	Value
Effective Control Distance	Visual distance of 30 meters
Supported ICs	WS2812B, SM16703, SM16704, WS2811, UCS1903, SK6812, INK1003, UCS2904B
Application	Lamp strip, panel lamp, and other constant pressure lamps

7. TROUBLESHOOTING GUIDE

If you encounter issues with your Vrabocry Smart UFO LED Controller, refer to the following common problems and solutions:

- **Controller not powering on:**
Ensure the power supply is correctly connected and providing the specified DC 5V. Check all wiring for loose connections.
- **LED strip not lighting up:**
Verify that the LED strip is compatible with the controller (e.g., correct IC type). Double-check the V+, DAT, and GND wiring connections between the controller and the LED strip. Ensure the strip itself is receiving power.
- **APP cannot connect to controller:**
Confirm that Bluetooth and WiFi are enabled on your mobile device. Make sure the controller is powered on and within effective control range (30 meters visual distance). Try restarting the Surplife APP and then power cycling the controller.
- **Incorrect colors or patterns:**
Check the APP settings for color calibration and the currently selected modes. Ensure the correct IC type for your LED strip is selected within the Surplife APP, if applicable.
- **Controller unresponsive:**
If the controller becomes unresponsive, try a long press (8 seconds) on the central button to restore factory settings. After resetting, you will need to reconfigure the controller via the APP.

8. CARE AND MAINTENANCE

- Keep the controller clean and free from dust. Use a dry, soft cloth for cleaning.
- Avoid exposing the device to extreme temperatures, direct sunlight, or corrosive substances.
- Do not use harsh chemicals or abrasive cleaners, as these can damage the casing or internal components.

9. WARRANTY AND CUSTOMER SUPPORT

For warranty information, technical assistance, or any questions regarding your Vrabocry Smart UFO LED Controller, please contact Vrabocry customer support through your purchase platform. You may also find additional support resources within the official Surplife APP.

Online Instruction Manual: https://qrcode.surplife.net/opb/manual/quota/LED_CONTROLLER_2022110106

Surplife APP Download: <https://faqsys.magichue.net:4489/wifi/page/download/surplife>

