

SMART HOME LED CONTROLLER MODEL: SH-LED-2024 USER MANUAL AND WARRANTY GUIDE

1. INTRODUCTION

Thank you for purchasing the Smart Home LED Controller SH-LED-2024. This device allows you to control up to 16 LED strips with advanced features including color mixing, dimming, scheduling, and voice control integration.

2. PACKAGE CONTENTS

- Smart Home LED Controller unit - Power adapter (12V, 3A) - User manual - Quick start guide - Mounting hardware - Remote control

3. TECHNICAL SPECIFICATIONS

- Input Voltage: 100-240V AC, 50/60Hz - Output: 12V DC, 3A maximum - LED Strip Support: Up to 16 channels - Wireless: WiFi 802.11 b/g/n, Bluetooth 5.0 - Operating Temperature: -10°C to 50°C - Dimensions: 150 x 100 x 25mm - Weight: 250g

4. INSTALLATION GUIDE

4.1 Mounting the Controller Mount the controller in a dry, well-ventilated area away from direct sunlight and heat sources. Use the provided mounting screws to secure the unit to a wall or surface.

4.2 Connecting LED Strips Connect your LED strips to the output terminals. Each channel supports up to 2A current draw. Ensure proper polarity when connecting (red = positive, black = negative).

4.3 Power Connection Connect the provided power adapter to the controller and plug into a standard wall outlet. The power LED will illuminate green when properly connected.

5. LED STATUS INDICATORS

The controller features several LED indicators to show system status:

- Power LED (Green): Steady when powered on - WiFi LED (Blue): Steady when connected to network, blinking when connecting - Status LED (Multi-color): Green blinking for normal operation, Red blinking for error condition or overload, Blue blinking for pairing mode active, Orange steady for firmware update in progress

6. TROUBLESHOOTING

6.1 LED Blinking Patterns

If you notice unusual LED blinking patterns, refer to this guide:

- Rapid red blinking (5 times per second): Overload condition detected. Reduce LED strip load or check connections. - Slow red blinking (once per second): Temperature protection active. Ensure adequate ventilation. - Alternating red/blue: Network connection error. Check WiFi settings. - Purple blinking: Low voltage detected. Check power adapter connection.

6.2 Common Issues

Problem: Controller not responding to remote Solution: Check battery in remote control. Re-pair remote if necessary.

Problem: LED strips flickering Solution: Check all connections are secure. Verify power supply capacity.

Problem: Cannot connect to WiFi Solution: Reset network settings by holding setup button for 10 seconds.

7. WARRANTY INFORMATION

7.1 Warranty Period This product is covered by a 2-year limited warranty from the date of purchase.

7.2 Warranty Coverage The warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse or abuse, exposure to moisture or extreme temperatures, unauthorized modifications, or normal wear and tear.

7.3 Warranty Claim Process To make a warranty claim: 1) Contact customer support with proof of purchase, 2) Describe the issue and provide photos if requested, 3) Follow return instructions if replacement is authorized, 4) Retain original packaging for returns.

8. TECHNICAL SUPPORT

For technical support and additional resources: - Website: www.smarthome-tech.com/support - Email: support@smarthome-tech.com - Phone: 1-800-SMART-LED - Live chat available 24/7 on our website

9. SPECIFICATIONS SUMMARY

Model: SH-LED-2024 Power: 12V DC, 36W maximum Channels: 16 independent LED channels
Control: WiFi, Bluetooth, Remote, Voice commands Compatibility: Alexa, Google Assistant, Apple HomeKit App: SmartHome Controller (iOS/Android) Firmware: Updateable via app

10. SAFETY WARNINGS

- Do not expose to water or moisture - Do not exceed maximum current ratings - Use only provided power adapter - Keep away from children and pets - Do not disassemble unit - Disconnect power before making connections

Thank you for choosing Smart Home LED Controller. For the latest firmware updates and additional features, please visit our website regularly.