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› LABOREDUCER RGB Under Cabinet Lights (8-Pack) Instruction Manual - Model LR 8RGB Puck-US

LABOREDUCER LR 8RGB Puck-US

LABOREDUCER RGB Under Cabinet Lights (8-Pack) Instruction Manual

Model: LR 8RGB Puck-US

1. INTRODUCTION

Thank you for choosing the LABOREDUCER RGB Under Cabinet Lights. This 8-pack lighting system offers versatile illumination with RGB color options, app control, music synchronization, and dimming capabilities. This manual provides detailed instructions for installation, operation, and maintenance to ensure optimal performance and longevity of your product.



Image 1.1: Overview of the LABOREDUCER RGB Under Cabinet Lights 8-Pack components.

2. PACKAGE CONTENTS

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

- RGB Puck Lights: 8 units
- 8-Way Splitter: 1 unit
- 24-Key Remote Control: 1 unit (CR2 battery included)
- 12V 2A Power Adapter: 1 unit
- 5ft Extension Cords: 4 units
- Screws: 16 units
- Surface Mounted Holders: 8 units

Package include



Puck lights X8



US Plug: X1



Power adapter: X1



Remote: X1



Screws: X16



8 Way Splitter: X1



Controller: X1



Surface mounted holder X8



Extension cords: X4

Image 2.1: Detailed view of all items included in the package.

3. SPECIFICATIONS

Feature	Specification
Brand	LABOREDUCER
Model Number	LR 8RGB Puck-US
Color	RGB (Red, Green, Blue) - Multicolored
Material	Aluminum, Plastic
Light Source Type	LED
Voltage	12 Volts (DC)
Wattage	16 watts (total for 8 lights)

Feature	Specification
Brightness	1600 Lumen
Control Method	App, Remote Control, Controller Box
Special Features	Color Changing, Dimmable, Energy Efficient, Music Sync
Installation Type	Surface Mount / Recessed Mount
Product Dimensions	2.7"L x 2.7"W x 0.5"H (per puck light)
Item Weight	2.56 Pounds (total package)
Water Resistance Level	Not Water Resistant (Indoor Use Only)

Dimensions



Image 3.1: Product dimensions for planning installation.

4. INSTALLATION

The LABOREDUCER RGB Under Cabinet Lights offer two primary installation methods: Surface Mounted and Recessed. All puck lights must be linked in parallel to the 8-way splitter.

4.1. Wiring Connection

1. Connect each puck light to the 8-way splitter.
2. Connect the 8-way splitter to the main controller box.
3. Connect the controller box to the 12V 2A power adapter.
4. Plug the power adapter into a standard electrical outlet.

Note: If additional cable length is required, 5ft extension cords are included. Ensure connections are secure. For hardwired applications, the plug on the power supply can be removed by a qualified electrician for direct wiring.



Image 4.1: Proper connection of the controller box, ensuring arrow alignment.

4.2. Surface Mounted Installation

1. **Prepare the Holder:** Pass the light cords through the center of the surface mounted holder.
2. **Secure the Holder:** Position the holder at the desired location and fix it securely with the provided screws.
3. **Attach the Puck Light:** Clip the puck light into the secured holder.

Image 4.2: Steps for surface mounted installation.

4.3. Recessed Installation

1. **Cut the Hole:** Using an appropriate tool, cut a circular hole approximately 2.3 inches (5.8 cm) in diameter at the desired installation point.
2. **Insert the Puck Light:** Carefully insert the puck light into the cut-out hole.
3. **Secure:** Ensure the light is flush with the surface for a finished appearance.



Image 4.3: Steps for recessed installation.

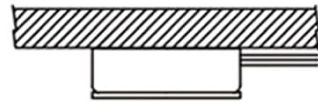
Two waya of installation



- 1** Can be embedded in the ceiling



- 2** It can be directly glued on the wall or cabinet, more convenient



Dimension analysis diagram

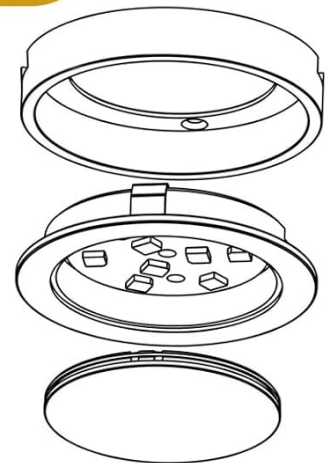
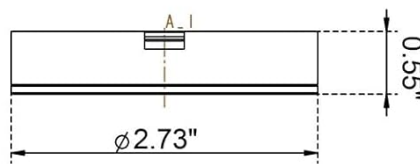
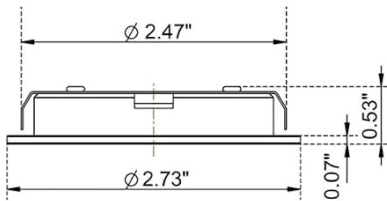


Image 4.4: Comparison of surface and recessed installation methods.

5. OPERATION

Your LABOREDUCER RGB Under Cabinet Lights can be controlled via three methods: a mobile application, the included remote control, or the controller box.

5.1. APP Control

1. **Download App:** Scan the QR code provided in the manual (or on the product packaging) to download and install the dedicated control application on your smartphone.
2. **Connect:** Follow the in-app instructions to connect your lights via Bluetooth.
3. **Control:** Use the app to adjust colors (16 million options), brightness, modes, and music synchronization.



Image 5.1: Example of the mobile application interface for light control.

5.2. Remote Control

The included 24-key remote control uses IR technology. Ensure the remote is aimed at the controller box within 16 feet (5 meters) for effective operation.

- **ON/OFF:** Power the lights on or off.
- **Color Selection:** Directly select static colors (Red, Green, Blue, White, and various preset colors).
- **Brightness Adjustment:** Use the 'Speed+' and 'Speed-' buttons (in static mode) to increase or decrease brightness.
- **Dynamic Modes:** Use 'MODE+' and 'MODE-' to cycle through various dynamic lighting effects.
- **Speed Adjustment:** Use 'Speed+' and 'Speed-' buttons (in dynamic mode) to adjust the speed of effects.
- **DIY Colors:** Program custom colors using the R+, R-, G+, G-, B+, B- buttons.
- **Timing Function:** Set automatic shut-off timers (30 min, 60 min, 90 min, 120 min).
- **Music Sync:** Activate music synchronization modes.



5.3. Controller Box

The physical controller box provides basic control functions:

- **Color Button:** Switches between static colors.
- **Speed Button:** Long press to turn lights ON/OFF. Short press to adjust brightness (static mode) or speed (dynamic mode).
- **Mode/Demo Button:** Cycles through dynamic lighting modes.

5.4. Music Sync Function

The built-in IC chips allow the lights to react to music. When activated via the app or remote, the lights will change colors and patterns in sync with audio input.

6. MAINTENANCE

To ensure the longevity and proper functioning of your LABOREDUCER RGB Under Cabinet Lights, follow these maintenance guidelines:

- **Cleaning:** Gently wipe the puck lights with a soft, dry cloth. Avoid using abrasive cleaners or solvents, as these can damage the finish or electronic components.
- **Power Disconnection:** Always disconnect the power adapter from the electrical outlet before performing any cleaning or maintenance.
- **Environmental Conditions:** These lights are designed for indoor use only. Avoid exposure to moisture, high humidity, or extreme temperatures.
- **Cable Management:** Ensure all cables are neatly routed and secured to prevent accidental damage or tripping hazards.
- **Remote Battery:** If the remote control becomes unresponsive, replace the CR2 battery.

7. TROUBLESHOOTING

If you encounter issues with your LABOREDUCER RGB Under Cabinet Lights, refer to the following troubleshooting steps:

Problem	Possible Cause	Solution
Lights do not turn on	No power supply Loose connections Faulty power adapter	Ensure power adapter is plugged in and outlet is functional. Check all cable connections (puck lights to splitter, splitter to controller, controller to adapter). Test with a different 12V DC adapter if available.
Remote control not working	Remote battery depleted Obstruction between remote and controller Remote not aimed at controller	Replace the CR2 battery in the remote. Ensure a clear line of sight to the controller box. Aim the remote directly at the controller box within 16ft.

Problem	Possible Cause	Solution
App cannot connect to lights	Bluetooth is off App not properly installed/paired Interference	Ensure Bluetooth is enabled on your smartphone. Restart the app and try pairing again. Reinstall the app if necessary. Move closer to the controller box.
Lights are flickering or inconsistent	Loose connections Power supply issue	Check all cable connections for tightness. Ensure the power adapter is providing stable 12V DC.
One or more puck lights not working	Faulty puck light Loose connection to splitter	Check the connection of the specific puck light to the splitter. If still not working, the individual puck light may be faulty.

8. WARRANTY & SUPPORT

LABOREDUCER provides a **2-YEAR limited warranty** for this product. This warranty covers manufacturing defects and issues arising from normal use.

If you experience any quality problems or require technical assistance, please contact LABOREDUCER customer support through the retailer's platform or the official LABOREDUCER website. Please have your purchase information and model number (LR 8RGB Puck-US) ready when contacting support.