Solid Apollo LED
Where light meets perfection

Product Manual

120V AC 8 Zone Wireless Waterproof RGB Controller
SKU: LT-RGB-DRLS-RF

PRODUCT MANUAL
120V AC 8 Zone Wireless Waterproof RGB Controller

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Where light meets perfection

Toll Free. 866-592-3873
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Product Description

Solid Apollo's 8 Zone Wireless Waterproof RGB (color-changing) controller is designed to be used with RGB LED Lighting products that work at line voltage of 120V AC like our Driverless RGB LED strips and our RGB Neon LED.

Built for high voltage applications, the 120V AC Wireless Waterproof RGB Controller has a whopping 600W max power perfect for long runs and big projects. It's waterproof industrial casing of IP67 is suited for any outdoor or indoor environment.

Thanks to the included 8 Zone Wireless Remote Control, it will let you control 1 zone and if you wish to control more than one zone, you will just need to add additional receivers that will enable you to control independently up to 8 different zones.

Product Features

- Wireless RGB Controller for Driverless RGB LED Strips and RGB Neon Strip Lights
- Waterproof IP67, Indoor / Outdoor use
- Includes Wireless Remote & Receiver
- Control up to 8 Different Zones with Optional Receivers
- Easy Zone Assignment
- Brightness Levels can be Controlled for Each Individual Color or Zones
- 10 Programs with Chase Effects and Fading Effects Through All Zones
- Great for Installations with Multiple Locations
- 600 Watts Max Power
- Plugs Directly to any 120V AC Outlets

Product Includes:

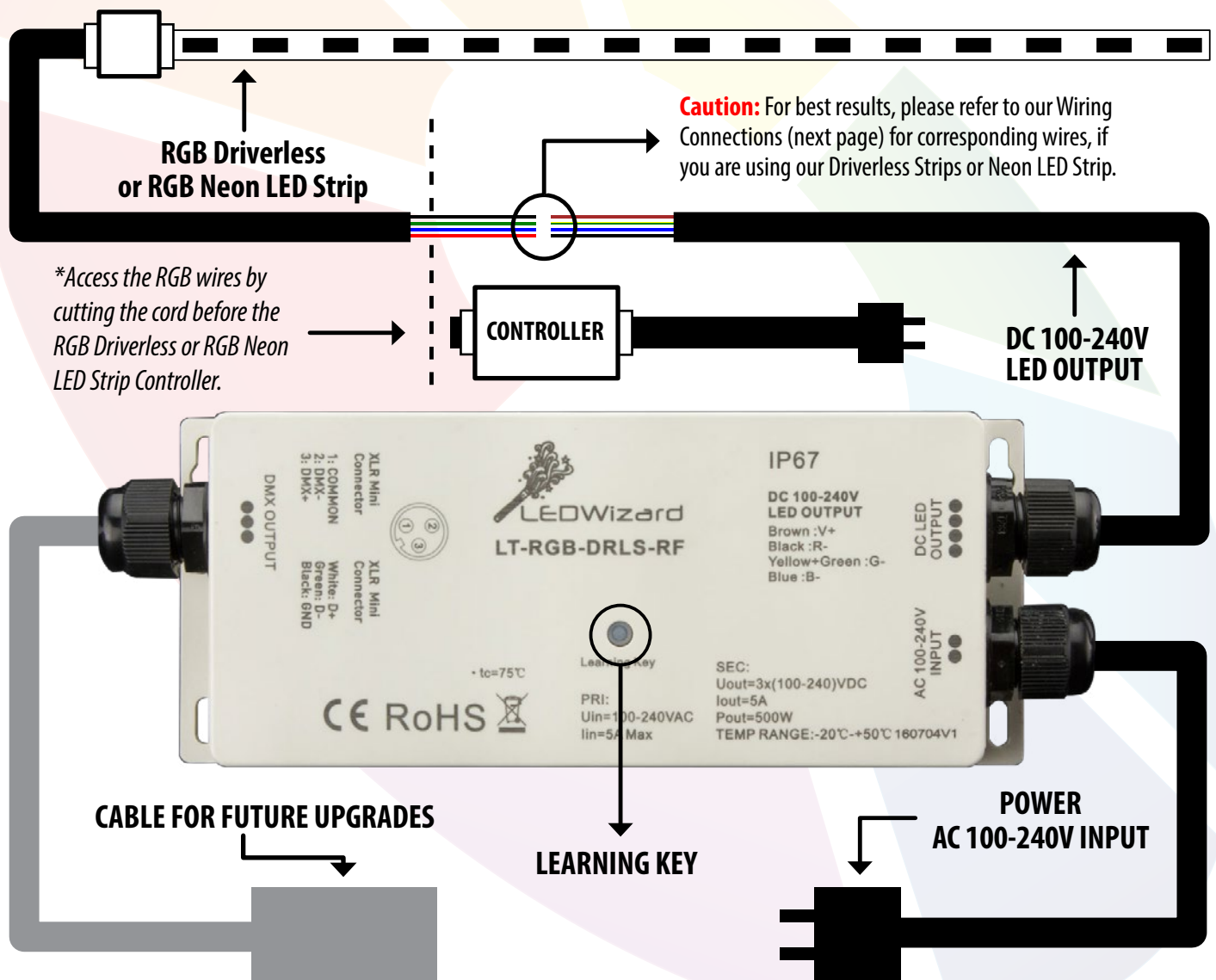- 1 x Wireless 8 Zone Remote Control w/ Wall Holder
- 1 x 120V AC Wireless RGB Controller Receiver

Manual will Review:

- Installation Process
- Product Features and Detailed Functionality
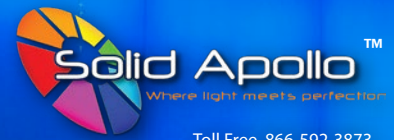- Technical Parameters
- Troubleshooting

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Wiring Diagram

Solid Apollo's 120V AC 8 Zone Wireless RGB Controller is easy to install and will operate our Driverless RGB LED Strips or RGB Neon LED Strip Light that work at line voltage of 120V AC. The Wiring Diagram below gives you an overview guide to successfully and easily install the Driverless RGB LED Strip Lights or RGB Neon LED Strip. Please see the next page as it will show you a more detailed instructions on proper installation.

RGB Driverless or RGB Neon LED Strip

Caution: For best results, please refer to our Wiring Connections (next page) for corresponding wires, if you are using our Driverless Strips or Neon LED Strip.

Access the RGB wires by cutting the cord before the RGB Driverless or RGB Neon LED Strip Controller.

CONTROLLER

DC 100-240V LED OUTPUT

DMX OUTPUT

XLR Mini Connector
1: COMMON
2: DMX-
3: DMX+

XLR Mini Connector
White: D+
Green: D-
Black: GND

LEDWizard
LT-RGB-DRLS-RF

IP67

DC 100-240V
LED OUTPUT
Brown :V+
Black :R-
Yellow+Green :G-
Blue :B-

DC LED OUTPUT

AC 100-240V INPUT

• tc=75℃

Learning Key

PRI:
Uin=100-240VAC
Iin=5A Max

SEC:
Uout=3x(100-240)VDC
Iout=5A
Pout=500W
TEMP RANGE:-20℃-+50℃ 160704V1

CE RoHS

CABLE FOR FUTURE UPGRADES

LEARNING KEY

POWER AC 100-240V INPUT

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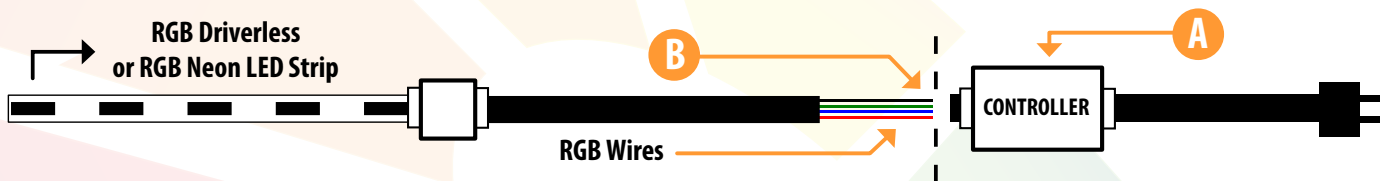
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D.I.Y - Installation Guide

* Warning : Before any modifications, please make sure the 120V AC Wireless Waterproof RGB Controller and your RGB Driverless LED Strips or RGB Neon LED are **unplugged.** The 120V AC Voltage is dangerous and may cause electrical shock, injury and in some cases death.

Step 1:

A Locate the **Controller** of your chosen RGB Driverless or RGB Neon LED Strip.

B Begin to expose the RGB wires by **cutting** the cord before the Controller (as shown below).

RGB Driverless or RGB Neon LED Strip

B

A

CONTROLLER

RGB Wires

Step 2:

For best results, please refer to the Wiring Connections (shown below) for each corresponding wires according to your chosen LED Lighting fixture.

Neon LED Strip Connection

LED STRIP	+	CONTROLLER
BLACK: V+	--------	**BROWN: V+**
GREEN: G-	--------	**YELLOW**/**GREEN: G-**
BLUE: B-	--------	**BLUE: B-**
RED: R-	--------	**BLACK: R-**

Driverless LED Strip Connection

LED STRIP	+	CONTROLLER
BLACK : V+	--------	**BROWN: V+**
GREEN : G-	--------	**YELLOW**/**GREEN: G-**
BLUE : B-	--------	**BLUE: B-**
RED : R-	--------	**BLACK: R-**

*Please Note:

In order for your 120V AC Wireless RGB Controller Receiver to have a full waterproof connection, you would have to install a Heat Shrink (not included) that goes over the connection or use our *RGB Outdoor Waterproof Connector (SKU: SA-LS-4-PIN-GLAND).*

We offer in-store installation should you need it.
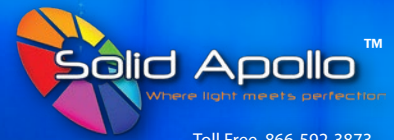Please contact us for more information.

RGB Outdoor Waterproof Connector

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8 Zone Remote and 120V AC Paring Process

Solid Apollo's 8 Zone color changing RGB-W remote control is fully wireless and can control up to 8 different light zones using just one remote control. The SenseControl color wheel allows easy color selection, and can be fine tuned to an exact color using the single color buttons. The controller works great with any LED products which use four channels, such as RGBW (red, green, blue and white). A wall holder is also included for secure and easy storage.

AAA Batteries

Step 1: Power up your remote with three (3) AAA batteries (not included), then press the **RED** power button located on the center of the remote. A solid red light should come on, indicating your remote is on (the **Indication Light** is located on the upper right corner of the Remote).

Indication Light

Power Button

(Not Included)

Step 2: Quickly Tap the "**Learning Key**" on the 120V AC Wireless RGB Controller.

IP67
LEDWizard
LT-MONO-DRLS-RF
DC 100-240V
LED OUTPUT
Brown :V+
Blue :V-

SEC:
Uout=100-240VDC
Iout=5A
Pout=500W
TEMP RANGE:-20℃-+50℃

PRI:
Uin=100-240VAC
Iin=5A Max

• tc=75℃

RoHS

Learning Key

Step 3: Now press any button from Zone 1 to 8 depending in which zone you want to assign to the receiver, in this case we will press button "Zone 1" on the remote.

Zone 1

Step 4: Immediately start sliding your finger in the color wheel on the remote control, when correctly done, you will see the LED Fixture and the Indication Light flash. It will flash for about 3 seconds. Once it stops flashing the receiver has been correctly paired.

* Repeat these steps with other receivers if you want to pair all receivers to the same zones, in this case Zone 1, or have them in different Zones (1-8).

Step 5: Should you have any issues pairing, **hold** the **Learning Key** button down for 10 - 15 seconds to reset it and then repeat **Step 2 to 4.**

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8 Zone Remote Features and Functionality : *Button Controls*

This page will show you how to use your 8 Zone Remote and the next couple of pages will give you an in-depth detail of it's funtionalities. Let's begin!

For starters, your 8 Zone Remote will turn ON when you press any button and will remain ON for 15 seconds before going into standby mode. Make sure your remote is ON before operating your LED lights.

You can control a single zone and can adjust its color by pressing any of the 8 zones or you can select multiple zones by pressing the zone numbers in rapid succession, then adjusting the colors in all those zones.

BUTTON CONTROLS

A. Indicator Light

B. **SenseControl** Color Wheel

C. On/Off Individual Red, Green, Blue and White Color. Also allows for mixing two or more individual colors together.

D. Dynamic White

E. Decrease Speed
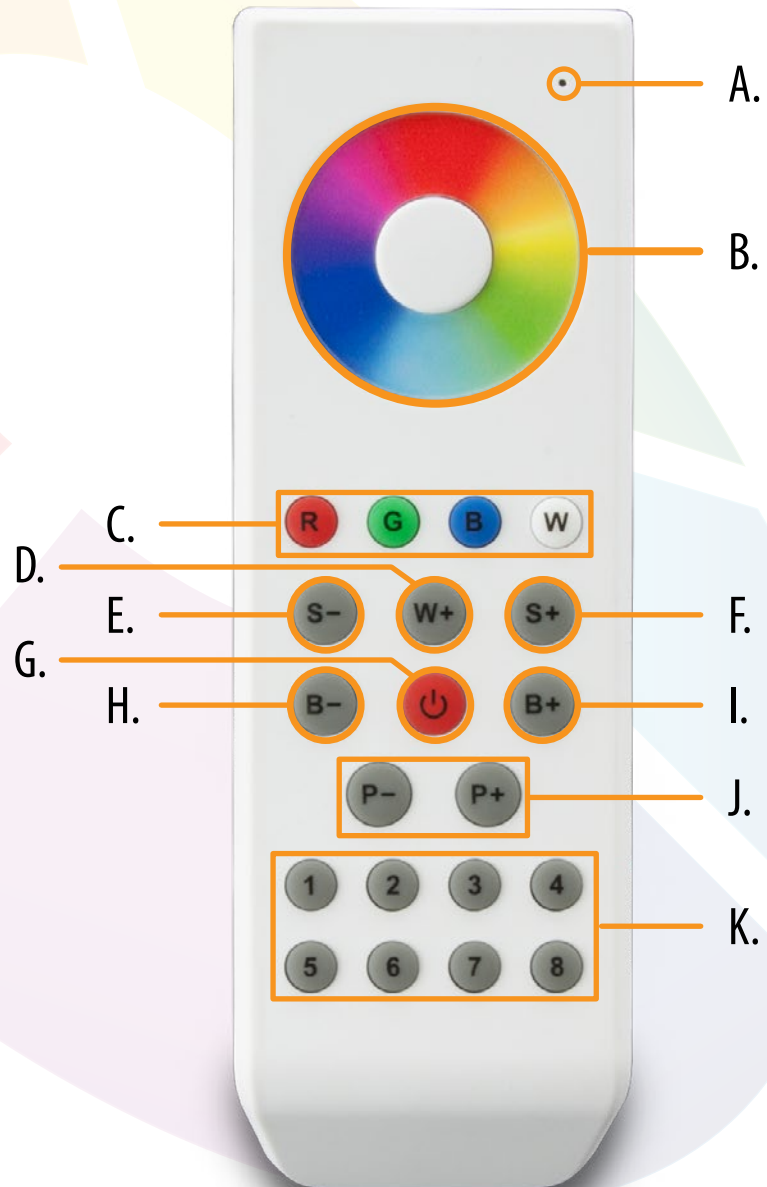
F. Increase Speed

G. On/ Off - Power Button

H. Decrease Brightness Levels

I. Increase Brightness Levels

J. Play Next or Previous Color-Changing Programs

K. Select 1 of 8 Individual Lighting Zones

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8 Zone Remote Features and Functionality : *Color Changing*

HOW TO TURN OFF A ZONE, AND TURN ON A ZONE:

Any RGB LED light Fixture can be turned off completely by pushing and holding a zone button:

A. With the Remote on, Press and Hold one of the 1-8 Zone Buttons until the lights turn off.

B. Repeat this process to turn the lights back on, the turned off zone will not turn on using the ON/OFF button.

A.

HOW TO CHANGE COLOR OF LED LIGHTING FIXTURES:

You can change a single receiver color, brightness and saturation individually or in-group.

To change the color of a single receiver follow the following procedure:

A. Press the power button in the remote, if the remote is off.

B. Select the zone to be controlled pressing any of the 1-8 keys on the remote.

C. Move your finger across the touch color wheel, until you see the color that you want.

A.

B.

C.

HOW TO CHANGE COLOR OF ALL THE LED LIGHTING FIXTURES SIMULTANEOUSLY:

To change the color of some or all the receivers follow the following procedure:

A. Press the power button in the remote if the remote is off.

B. Press in a rapid succession buttons from Zone 1-8. For example, if we want to change the color of receiver 1,2,3,4, and 5, we will press in a rapid succession the buttons from Zone 1-5 and then use the color wheel to change color of that group of receivers.

A.

B.

Press 1-5 in Rapid Succession

FAST SELECT OF COLOR AND FINE-TUNING COLORS:

The 4 color buttons (at right) are used to access a primary color quickly, and or to create mixing of colors in a very easy way.

A. If you press the red button, you will see your selected receivers and LED lights turn to red. If you press RED again, you will turn off the RED in all selected receivers. This principle applies for the rest of the buttons (Green, Blue and White)

B. Mixing colors: You can create a mix of color by pressing 2 or more buttons. For example, if we want to create a "purple color" we need to use RED and BLUE for this. Therefore press the red and then the blue color.

C. Every time you press a color button, you either turn on the color or turn it off.

Example: If we press the red button, we will get RED lights. If then we press the Blue Button, we will get, Purple (Red + Blue). If now we press the green button, we will get white lights (Red + Green + Blue). If we now press the blue button we will turn off the blue, but RED and green will still be on, therefore creating yellow (Red + Green)

A. , B., C.

HOW TO FINE TUNE COLORS:

Imagine you want to create a very strong purple color made of the RED and Blue colors. Nevertheless you don't wish to have so much blue in the color mix.

You can increase and decrease the brightness of any of the colors individually, in this case we want to decrease the Blue. First make sure that you have selected the zone you want to change using the 1-8 zone buttons on the remote, and that you have pressed the power button on the remote.

A. Tap the red button and you will see the lights in that zone turn red.

B. Now press the blue button for more than 2 seconds until the blue LED turns on.

C. Now place your finger in the rainbow color wheel and start moving your finger clockwise to increase the Blue color until it reaches your taste.

You will see that if you move your finger around the color wheel you will increment the blue and if you move your finger counter clockwise you will reduce the amount of blue in the color mix. . . .

If you want to stop controlling the brightness press the "Blue" color button for more than 2 seconds or until the LED light turns off.

C. Move Finger in Circular Motion

A.   **B.**

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8 Zone Remote Features and Functionality : *Color Effect Programs*

COLOR FADING PROGRAMS:

The 8 Zone Remote Control has 10 predefined color changing programs. You can control the speed and brightness of any program.

Also, the unit uses smart ID technology to create an amazing color effect when more than one receiver is used.

How to use the **Color Effects Programs**.

A. First select the zones you want to control Zone (1-8).

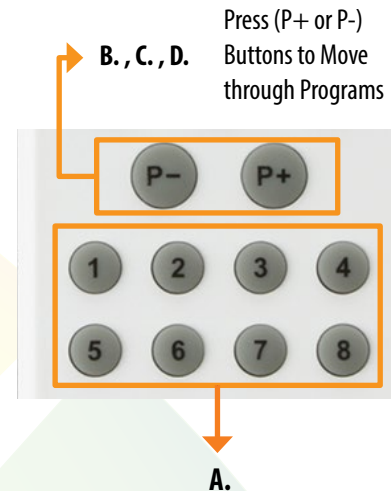**B.** Press the "*P+*" or "*P-*" button to start a color changing program.

C. If you press the "*P+*" or "*P-*" button again you will pause the current color chase program.

D. If you press the "*P+*" button again, you will advance to the next program. If you press the "*P-*" button again, you will go back to the last program.

Here's how it works:

Program1 ---Pause---Program2----Pause---Program3---Pause---Program4---Pause---Program5 ---Pause---Program6---Pause---Program7---Pause---Program8---Pause---Program9---Pause ---Program10

*Please Note: You can only navigate through 1 to 10 of the programs, when you reach either end (1 or 10) it will not cycle back through the programs if you continue to press "P+" or "P-".

Press (P+ or P-) Buttons to Move through Programs

B. , C. , D.

A.

CONTROLLING SPEED & BRIGHTNESS OF PROGRAMS:

Once you've selected the program of your choice, you can adjust the speed of the program and brightness levels by using the **Brightness** and **Speed Controls.**

A. Use the *S-* and *S+* on the remote to change and fine tune the speed at which the colors change in any of the programs. There are 16 speed levels. The fastest speed is 4 seconds for all the colors to cycle and the slowest speed is 256 seconds.

Changing Brightness:

B. Use the *B-* and *B+* on the remote to change and fine-tune the brightness Levels of the selected program.

*Please Note: The *B-* and *B+* also work when you have individual colors selected.

A.

B.

EXTENDED CONFIGURATION

The 8 Zone Remote can work with an unlimited number of 120V Wireless RGB Receiver. For example, you can have five 120V Wireless RGB receivers working in zone 1, ten 120V Wireless RGB receivers working in zone 2, and one receiver in zone 3. You can even have just one receiver on each zone and can create a chase effect.

Example 1: If you installed 10 receivers controlled by the number "1" zone key on the remote control, the 10 programmed receivers would initially react to button selection at the same time, but as each reciever is a different distance the reaction time is different, and when playing a color changing program, you would notice the lighting tied to each reciever would not be in sync. To prevent this, a "master and slave" programming is needed so that all the receivers will stay in sync with each other.

Example 2: Imagine in zone 1 you want to have 10 receivers. You will have 1 Master and 9 Slaves. The master will transmit a synchronizing signal to all the slaves, so all the receivers work in perfect timing when showing a color changing program.

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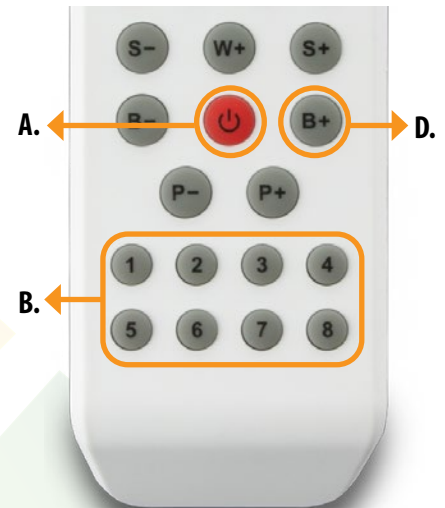www.SolidApollo.com
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8 Zone Remote Features and Functionality : *Master & Slave Program*

HOW TO PROGRAM THE MASTER RECEIVER:
A. Press the **red power button** on the remote.
B. On the remote, choose which zone will be used for the master and slave lighting (Tap the number, do not hold)
C. On the receiver, tap the **Learning Key** button.
D. On the remote, tap the **B+** button to complete the Master and receiver pairing. The red light on the remote and the LED fixture will flash to confirm the pairing is complete.
(Note: there can only be one Master Receiver (remote) on each zone.)
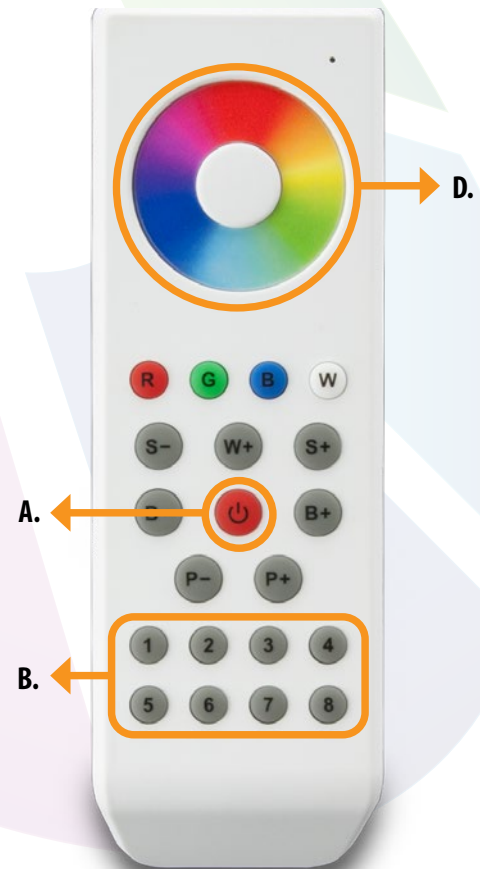
C. Learning Key

HOW TO PROGRAM THE SLAVE RECEIVER:
A. Press the red power button on the remote.
B. Choose the same zone the Master receiver (remote) was used in (Tap the number, do not hold)
C. On the receiver, tap the learning button
D. On the remote, slide your finger clockwise on the color wheel until the red light on the remote flashes, this will confirm the pairing is complete.
(Repeat this procedure for each slave receiver in the zone)
E. The master and slave programming is now complete.

C. Learning Key

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Technical Information

8 Zone Remote Control

• 3 AAA Batteries needed for operation (Not Included)

• Control up to 8 Receivers in Group all at Once or Individually

• Brightness Levels can be Controlled for Each Individual Color and Zone

• Programs with Chase Effects through all Zones

• Memory Function Remembers Last Scene Selected on All Zones

• Wireless Uninterrupted Range of 100ft.

• On/Off Switch of individual Zones or All Lights

• Color Saturation can be Controlled on Each Zone

• Comes with an Easy to Mount Magnetic Wall Holder

120V AC Wireless RGB Controller

• Controls 4 Channels: RGB + White

• High Voltage Applications

• 600W Max Power

• Waterproof Casing for Indoor/Outdoor Use, IP rating of 67

• Memory Function

• Intelligent Channel Assignment

Troubleshoot

1. **LED Lights are not turning on when the 120V AC Wireless Waterproof RGB Controller Receiver is plugged in.**

   Please revert back to the wiring diagram and check your wiring connection to see if the wires matched their corresponding wire (positive to positive and negative to negative). If you have installed the RGB Outdoor Waterproof Connector, please make sure that those wires are installed correctly onto their terminals and in relation to their corresponding wire.

2. **Remote not pairing or not working...**

   • **Battery** : If the 8 Zone Remote Control is not pairing properly. Check the batteries or simply just replace them. If you decide on replacing them, please take note of the placement of the battery. Many times, it could be just the battery placed incorrectly. Once you have done that, move on to the pairing process.

   • **Pairing Process:** Press and **hold** the **Learning Key** button for about 10 - 15 seconds. This should reset the 120V AC Wireless RGB Controller to factory settings. After that, repeat **Step 2 through 4** from the pairing process guide (Page 5)**.**

   * Should you have any questions about installation, troubleshooting and other concerns, please don't hesitate to call us at 425.582.7533 and we will be glad to assist you.