

PRODUCT MANUAL

LEDWizard Programmable LED Controller/Receiver (4 Zone)

DESCRIPTION

LED Wizard Programmable 4 Zone Controller/Receiver

Solid Apollo's Programmable 4 Zone RGB LED Controller is a part of the new generation of LED Controllers which can control any color changing LED light system. Additionally you are able to create your own color changing programs and assign them individually or as a group to any of 4 different zones. Each zone can have a personalized program, and each program can have up to 10 different steps or color transitions.

Previously, multiple zones each had to have their own remote. Now, you can control up to 4 different zones with just one central wireless control system.

Main Functions

- Touch sensitive Color Wheel for exact color selection.
- Create your own color transitions for each zone.
- Control saturation levels for each color or Zone.
- Turn ON/OFF all zones at once or individually
- Full Dim control on each zone.
- Control Program speed on each zone.
- 10 Pre-Programed color changing effects.
- Wireless Transmission up to 100 Feet away.

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This Manual will review:

- The entire Installation Process (Page 2-3)
- Product Features and Primary Uses (Page 4)
- Detailed Functionality for programming your receivers with your remote. (5-7)
- Technical Parameters (8)



Remote Controller



Receiver

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Installation

This part of the manual explains how to connect your Receiver to your LED lighting fixtures and then how to synchronize it with your remote.

1. Setup each Receiver as outlined in Figure 1. Please note that you can set up as many as 4 zones (with multiple receivers), but only need one for your remote to operate. You can set up each individual receiver by first connecting to your LED lighting fixture to the receiver and then safely connecting either a 12VDC or 24VDC power supply to each receiver.
2. The type of transformer (12VDC or 24VDC) is based upon the type of LED lights you will be connecting up to each receiver. There are three outputs per receiver, which can output a maximum of 5A (120W per channel) for a total of 360W total output from the receiver (at 24V). At 12V you can have a maximum of 180W (60W per channel) can go through all three RGB outputs.
3. Once you have set up the number of receivers you wish to use, you can begin to synchronize them with your remote and start to fully utilize your LED lighting system.

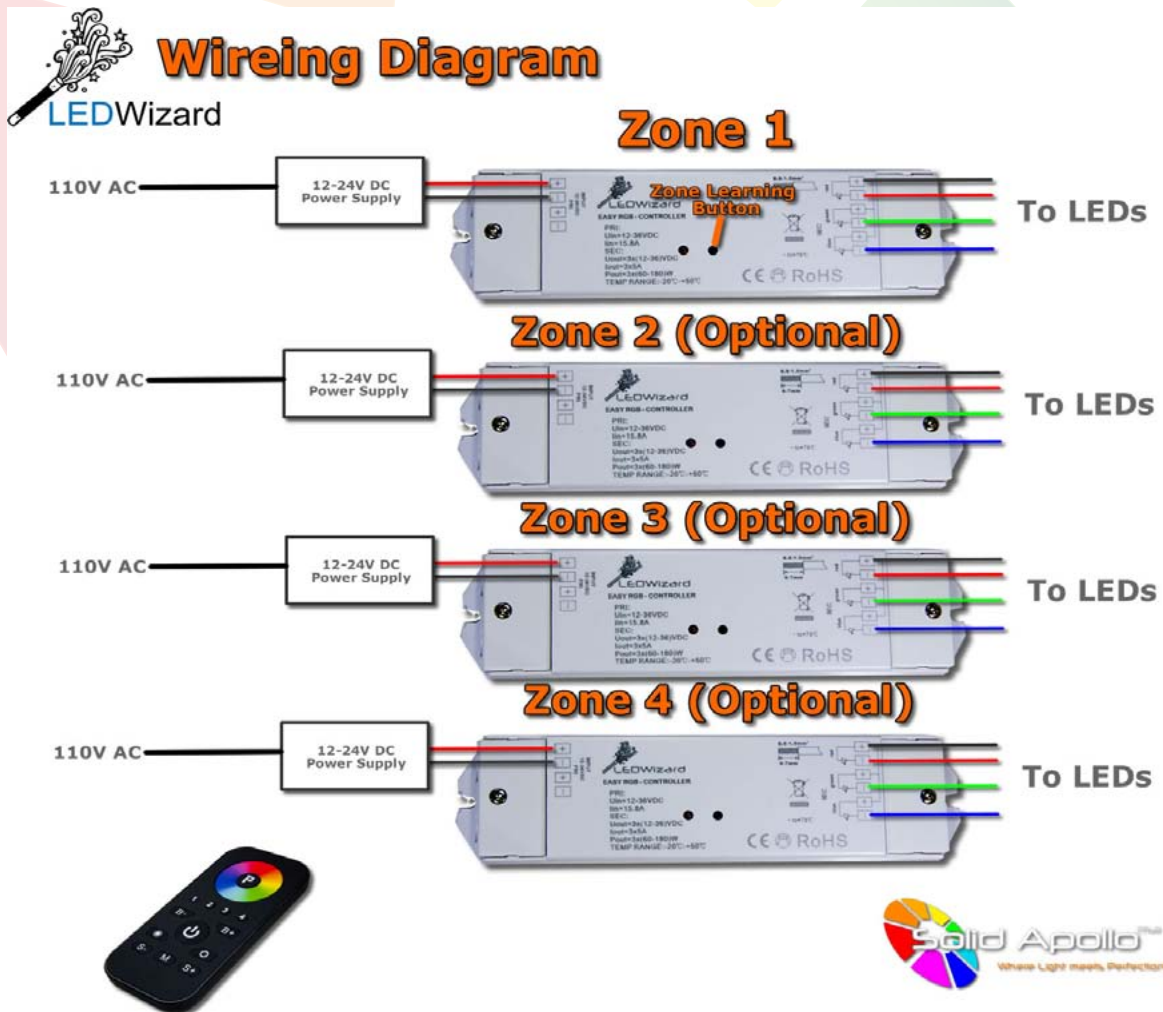


Figure 1

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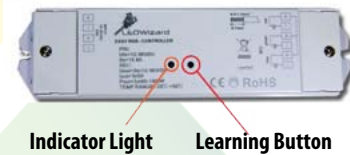
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Synching your remote & receivers

1. Once all of the receivers are plugged into both LEDs and a power supply, you are able to synchronize your remote to your receiver(s). To Synchronize your remote to your receiver(s) first press the power button on your remote control. This will turn on only your remote control.



2. Now, press down firmly on the first receiver's "learning button" and release. The indicator light on the receiver should now be glowing a solid red. It is now ready to sync with your remote. Choose which zone you wish to sync (for example 1 for Zone 1) on your remote.



3. Press down on that zone button and release. The Indicator Light on the receiver and the red confirmation light on your remote will blink. Move your finger around the color wheel to change the color of your lights and synchronization between your receiver and remote will be completed.



4. To add another receiver to a different zone, you can repeat steps 1-3 with a different zone button. With the remote on, press the "Learning Button" on the new receiver, causing its indicator light to glow red. Press and release a different zone button your remote, and you will have synchronized your new receiver to a new zone.



5. You can now independently control these zones by selecting the zone you wish to control and then adjusting the color, saturation, brightness, or program speed. However with the 4 Zone remote, you can also change multiple zones at the same time by pressing the zones you wish to adjust in succession, for example Zones 1 & 2, and then changing parameters such as color and brightness.



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Interface

You can easily and accurately control multiple zones within your lighting environment with LEDWizard Programmable LED Controller/Receiver (4 Zone) and its easy to use Remote and its following features:

Color Picker: A color wheel which allows for easy selection of any color you desire



Zone Selection: Control which zone(s) you are changing the colors for. With this button you can control multiple zones at once, or toggle them on/off while leaving other zones fully lit.



Brightness (+/-): Changing the brightness of either your selected color or program is very easy. To increase or decrease brightness, simply press the corresponding button and your program or color will become brighter (+) or darker (-).



Saturation (+/-): With these buttons you are able to increase or decrease the amount of color your LEDs are producing, with a decrease producing a white color, and an increase producing a more colorful selection.



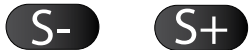
Program (P): You can create custom programs by using the (P) button in the center of the color picker.



Mode: This button saves your custom programs and plays them back to you on any zone.



Program Speed (+/-): When a program is running you can increase or decrease the speed of the program by toggling the corresponding button on your remote.



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Functionality

Controlling your color settings of your RGB LED lighting system is effortless with the LEDWizard Programmable 4 Zone LED Controller/Receiver. This section reviews the many functions of your device including

- **Creating and saving a color changing program,**
- **Controlling and adjusting the different zones of your lighting environment, and**
- **How to control multiple zones at once.**

Turning your lights on and off:

To turn your lights on, simply press and release the power button on the remote (as shown below). A small red indicator light will turn on your remote. Once your remote is on, you can control all of your zones/receivers by turning them on or off. All color changing and fine tuning is performed through your remote and not on the receivers. Please note your 4 Zone Remote automatically turns off to conserve power after 10 seconds.



Powering on and off individuals zones:

To turn on or off any of your 4 distinct zones, simply press and hold the button which corresponds to the zone you want to turn off. After approximately 5 seconds that zone alone will be shut off or turned on, while your other zones remain unchanged. If you were to press the remote's main power button, it would turn off your entire lighting system. Your system will remember the exact settings once you turn it off, meaning any zones which were off will still be off when you press the remote's main power button. To power that specific zone back on, press and hold that zone's button until it turns back on again.



Selecting Colors:

To select the static color of any zone (or multiple at once) first select the zone(s) you wish to change to a specific color by tapping their corresponding buttons. If you wanted to change the color of Zones 1 and 3, you would tap in succession buttons "1" then "3." If you simply wanted to change the color of all of the LEDs in Zone 1, you would tap button "1." Now, you can rotate your finger around the color wheel to select the exact color you want for all of the zones you have selected.



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Changing the Brightness of a color or program:

You can adjust the brightness of a static color running on any zone. To increase the brightness of a selected color, simply press the B+ or B- button to get the desired brightness of your lights. Brightness can be controlled separately between zones. By pressing the zone button, and then adjusting the brightness to the specific level you want, you can fine tune all four zones to an individual brightness on a constant color.



Decrease Brightness



Increase Brightness

Changing Saturation:

You can adjust the saturation of a constant color on any zone. To increase the amount of color your LEDs are producing in a specific zone, simply press the "Add Saturation" saturation button. To produce less saturation on your LEDs, you can press the "Decrease Saturation" button.



Add Saturation
(Saturate)



Decrease Saturation
(Desaturate)

Creating a program:

You can create two types of programs: Strobe or Fading. Please note that only one program can be saved in the internal memory. Also each program can contain up to 10 different steps.

Strobe Program

A strobe program changes quickly between colors without a fading effect. To create a **Strobe** program for all of your zones first turn on your remote. You do not need to select a zone to create your program. Now Press and release the P button at the center of the Color Wheel on your remote. You are now in "recording mode" and can select up to 10 colors on the color wheel which will be added to your new program. Tap and release colors in order to add them to the **Strobe** program. Note that while in "Programming Mode" you will not see a color change occur in your LEDs. Once you finish selecting the colors you want (in order) you can press the P button again to save that program. To run that program on any of your four zones at anytime, first select the zones you want to send the program to, for example 1,2, and 3, then press the M Button on the remote control.



1. Press the "P" Button.



2. Press colors you would like in your program (in order).



3. Press the "P" Button.



4. Press the "Mode" Button to playback your program.

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Creating a fading program

To create a fading program, you will begin with the same steps as creating the strobe program. **Fading programs slowly change between colors, creating a gradient effect on your LED strips.** First make sure your remote is on. Now Press and release the P button at the center of the Color Wheel. You are now in "recording mode". You can add up to 10 color fades into your fading program. Instead of pressing and releasing the different colors you wish to add, you can now hold down your finger on a color, and slide it along the color wheel to another color. Now, you can release your finger and start a new color fade at any place on the color wheel, including back to where you started. Once you finish selecting the colors you want (in order) you can press the P button again to save that program. To run your new program at anytime, simply press the M Button.



1. Press the "P" Button.



2. Press colors you would like in your program (in order).



3. Press the "P" Button.



4. Press the "Mode" Button to playback your program.

Changing the Speed of a program:

While a program is running, you can increase or decrease the speed of it incrementally by toggling either the increase speed or decrease speed. This will slow up your custom program or slow it down incrementally. To change the speed of a program running on any zone, simply select the zone you want to change the speed of, press the Zone button, and press the increase speed and decrease speed buttons until you have reached the desired program speed.



Decrease Speed



Increase Speed

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Technical Specifications

Remote

- Operating Voltage: 4.5VDC
- Operating Frequency: 434MHZ/868MHZ

Controller/Receiver

- Input Voltage: 12-36VDC
- Output Voltage: 12-26VDC
- 3 Channels x 5A, 3 Channels x (60-180W)