

PRODUCT MANUAL

Programmable 4-Zone RGB-W Wireless LED Controller/Receiver



Contact Us: 425.582.7533

www.SolidApollo.com

Andrew@SolidApollo.com

Manual Content

- Product Information
- Product Diagram and Parts
- Product Wiring and Installation
- Product Operation
- Product Troubleshooting

Product Description

Solid Apollo's Programmable 4-Zone RGB-W Wireless LED Controller/Receiver is an advanced new control system for controlling RGBW fixtures in multiple areas or zones of your home and business. This programmable controller can control RGB/RGBW LED fixtures in four different zones individually or simultaneously.

The remote is sleekly designed with an amazing silky finish that gives a nice feel to the touch and it has so many fascinating features.

The product comes with a powerful 5A Receiver that converts radio frequency signals from the remote to control the LED fixtures. The remote controller has an impressive 65 feet range and it is able to pair and control an unlimited number of Receivers in any of the 4 zones.



Product Features

- Sleek design with quality material construct
- Battery operated Remote with backlit power button
- Controls up to 4 different zones
- Comes with a UL listed Receiver
- Pairs with unlimited number of Receivers
- Can control R, G, B, W outputs separately
- Precise color mixing and creation
- Ability to create personalized color-changing programs
- Adjust speed and brightness of running programs
- Save up to 4 scenes/programs per zone
- Three built-in white color temperatures
- Ten built-in color-changing programs
- Soft on/off and smooth dimming
- Magnetic wall-mounted remote holder

Product Specs

Remote Controller

- Input Voltage : 3 x AAA Batteries (Not included)
- Control System : Radio Frequency
- Controllable Zones : 4
- Weight : 0.20 lb
- Color : Black
- Range : 65ft
- Dimension : 4.7" x 3.0" x 1.2"

Receiver

- Input Voltage : 12V - 36V DC
- Max Power : 240W@12V DC
720W@36V DC
- Max Amps : 4 x 5A
- Dimensions : 7" x 1.8" x 0.9"
- Weight : 0.15 lb
- Working Temp : - 4F - 120F
- Warranty : 3 Years
- Certificates : CE, RoHs, UL

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Product Diagram and Parts

Remote

Remote Size:

Length: 6in / 152mm

Width: 2in / 52mm

Height: 0.76in / 19mm

Wall Mount/ Remote Holder:

Length: 3.8in / 97mm

Width: 1.3in / 34mm

Height: 0.86in / 22mm



Receiver

Power Supply
Input Terminal

"SEC" Terminal
for LED Fixture



Learning Key

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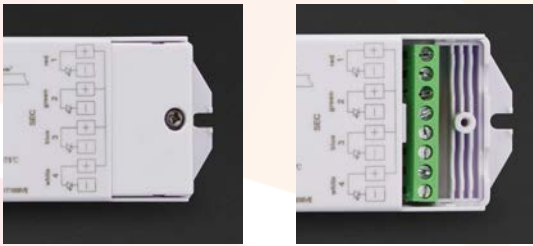
Product Wiring and Installation

Wiring of Receiver

The tools required for the installation are Philips head screwdriver, slot head screwdriver and wire strippers.

Step 1:

Unscrew and remove the white plastic endcap to expose the green wiring terminal blocks.



Step 2:

To add power, strip off about ¼-inch of the plastic jacket from the ends of the power supply wires to expose the metal strands. Twist each wire to bind the strands together for a better installation.



Please Note: Make sure that the power supply is NOT connected to a power source.

Step 3:

Open the green terminal-block slots located below the screw, by partially unscrewing the screws on the top.



Step 4:

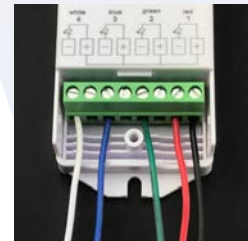
Securely install the stripped Power Supply wires into the opened "INPUT" side of the terminal-block by tightening back the screw until the wires are firmly installed. The Red wire should be connected to the "+" slot of the "INPUT" and the Black wire connected to the "-" slot.



Step 5:

Strip off ¼" of the wires from the LED fixture and connect them to the "SEC" side of the terminals by similarly following Steps 2 and 3. The positive wire of the fixture can be connected to any of the "+" terminals and the negative wires according to color (Red to Red, Blue to Blue, and so on).

Lightly pull the wires to test and make sure that they are strongly connected. Place back the end cap removed in step 1. Wiring is complete and you can now power up.



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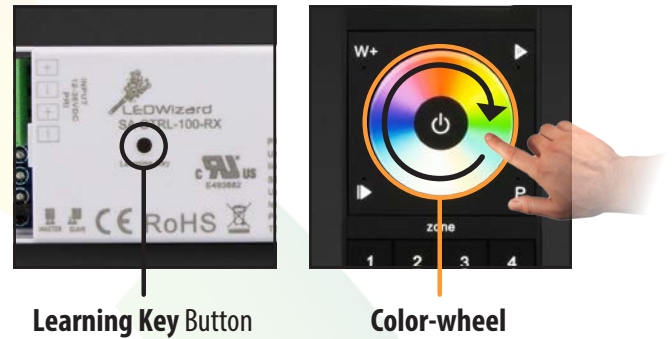
Product Wiring and Installation

Setting up the Remote Controller

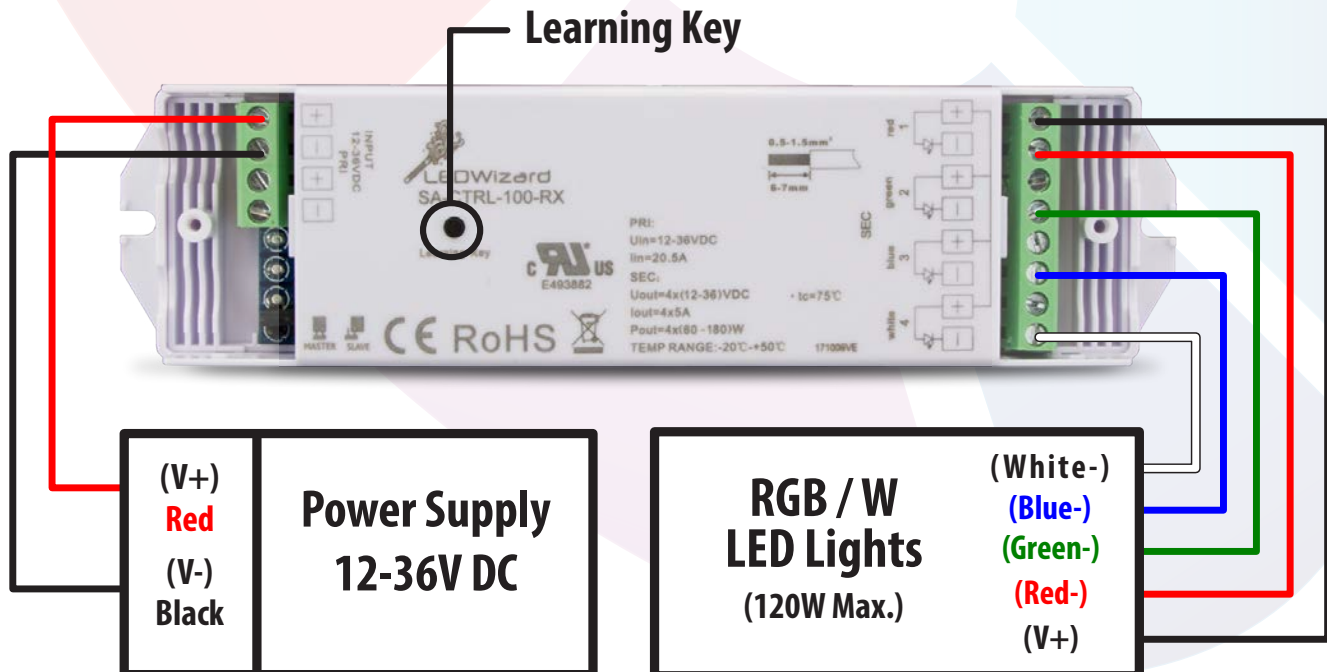
1. Properly insert 3 pieces of AAA batteries into the battery compartment of the remote.
2. Identify a suitable location to mount the remote cradle for holding/storing the remote after usage.
3. Install the Remote cradle using the provided 3M double-sided tape or screws.

Pairing the Remote to the Receiver

1. Press the **Power** button on the remote to power it on (the Power button will have a blue backlight).
2. Locate and push the “**Learning Key**” button on the Receiver once.
3. Press the Zone number (1-4) on the remote that you desire to place the LED fixture (and Receiver) in.
4. Tap and circle around the color-wheel on the remote. The LED fixture’s lights should flash and respond to any control activity on the remote.



Wiring Diagram



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Product Operation : Button Functions

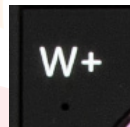
RGB brightness control :

Slowly swipe left-right or right-left to increase or decrease the brightness of the RGB colors output.



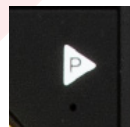
Built-in warm, natural, and cool white button :

Press to select one of the 3 built-in white color temperatures. Press once to select warm white, press again to select natural white, and so on. Compared to normal white light, these built-in white color temperatures are created from a mixture of RGB to mimic actual white light. They are preset and ready to apply with the push of the button.



Built-in program mode selector :

Press to select between jumping, flashing, fading, and strobing effects to play with any of the color-changing programs that is running. Press once to select the first mode, press again to select the next mode, and so on.



Color selection wheel :

Circle around the color-wheel to choose a color for the selected zone. In addition to having all the colors on a normal color-wheel, there is an extra artificial white color section on the color-wheel for choose between warm and cool white color temperatures.



Power button :

Press to turn ON/OFF the remote and LED fixtures in all zones.



Built-in program player :

Press to play any of 10 built-in color-changing programs. One press plays a program and a second press pauses it, then the third press plays the next program and the fourth press pause it, and so on.

Speed-up/slow-down a running program :

Press and hold the button to speed up a running color-changing program. Another press and hold will slow down the running program.



Program creator :

To create a program, press "P" button once. Then choose 2 to 5 colors on the color-wheel by tapping the desired colors on the wheel one after the other. Then press the "P" button once again. A color-changing play with the chosen 2-5 colors will run on the LED fixtures.

Use the "Play" button to add jumping, flashing, fading, or strobing effects to the program you created. While the program is running, a push of the "Play" button will add an effect (example jumping effect) to the program, another push will replace the jumping effect with a different effect (example fading) on the program, and so on.



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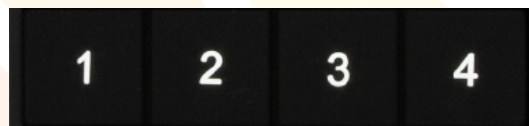
Product Operation : Button Functions (Continued...)

Zone selector :

Each number represents a separate zone. Always press the number corresponding to the zone desired to be controlled first, for the LED fixtures in that zone to correctly respond to control activity on the remote. You can also select 2 or more zones to control at the same. For example, to control zones 1,2 and 3 simultaneously, first press buttons 1,2, and 3 and then all the three zones will simultaneously respond to any control activity on the remote.

Turning ON/OFF a zone :

Press and hold a zone number to turn on or off its the LED fixtures.



RGBW (Red, Blue, Green, white) output control :

The buttons turn ON or OFF the Red, Green, Blue, and White outputs respectively. For example, one press of the R will turn the red output ON and another press of the R will turn the red OFF. To produce a pure color (green for example), turn the R, B and W OFF first just as mentioned in the previous example.

RGBW output brightness control :

Press and hold any individual RGBW button to brighten or dim the corresponding color output.

Fine color mixing :

Press and hold any of the RGBW buttons will gradually increase the color of the corresponding output. Therefore, to mix two colors, first turn one ON (the base color) and then press and hold the button corresponding to the second color. This will gradually start adding the second color to the base color. For example, to produce a special yellow, first turn the R output ON with full brightness, then press and hold the G to gradually saturate the red with green until you get you desired yellow color.

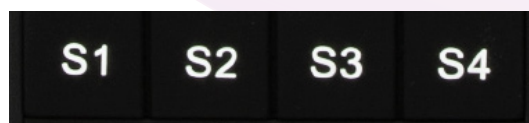
Special white control :

The white output of RGBW fixtures is fully controlled by the W button. Press the W once to turn ON or OFF the white output. Press and hold to brighten or dim the white output.



Color scene or program saver :

Press and hold any of the (S1-S4) to save the current color scene or running program to the zone. Press once to recall a saved scene or program



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Product Troubleshooting

This section will show you how to troubleshoot the Programmable 4-Zone Controller/Receiver.

- 1. Installation completed but lights are not ON:** Check to make sure that the wiring of the LED fixture(s) to the Receiver is properly done with the Power Supply wires correctly and securely connected to the "INPUT" terminals and the LED fixture's wires properly connected to the "SEC" terminals on the Receiver. See *Wiring of Receiver (Pg.3)* section.
- 2. Light(s) are on but not responding to controls on the remote:** If the lights are not responding to remote's controls, check to make sure that the following issues are fixed; incorrect pairing between Receiver and controller, and incorrect zone controls.
 - a. Incorrect pairing between Receiver and Controller :**
 - Follow the instructions on Pairing the Remote to the Receiver in the *Product Wiring and Installation (pg.4)* section.
 - Make sure that the lights you are trying to control are paired to the correct zone (1 - 4) on the remote. Pair again by following steps 2-4 in the pairing instructions (*Product Wiring and Installation - pg.4*).
 - b. Incorrect zone or button controls :**
 - Make sure that the correct zone (1 - 4) is selected first before doing any control activity.
 - If in the right zone but lights are not responding to the buttons even though a color-changing program is running, circle around the color-wheel to stop and reset any colors on the LED fixtures. Then select a zone and the controls should work for the selected zone.
 - If a created color-changing scene does not appear to be running after programming, it might be due to a slow speed set for the program. Push and hold the "**Built-in Program Player**" button (refer to pg. 5) to speed up the program. If you push and hold for 3-5 seconds and it did not speed up, then release the button and push and hold again.
 - **Note:** Even though there are four saving options per zone which allows you to save 4 colors and their brightness settings, only one personally created color-changing program can be saved per zone. However, the personally created program can be saved with up to four different color-changing effects (jump, flash, fade and strobe) in each zone. Save the program with one effect for each scene saving button (S1 – S4).