

# PRODUCT MANUAL

## In-Wall DMX RGB-W Controller



Solid Apollo™

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### DESCRIPTION

#### In-Wall DMX RGB-W Controller

Thank you for purchasing the In-Wall DMX RGB-W Controller. This sleek, sophisticated LED controller allows you to control up to four channels (RGB-W) in your installation using any DMX enabled LED light. This Manual will show you how to install, use, and fully utilize all of your controller's functions.

#### Main Functions

- Touch sensitive interface for exact color selection.
- 3 Memory slots for color saving.
- 1 Pre-loaded Color changing mode.
- Play and Pause functionality.
- Brightness and speed selection.
- Instant White Function.
- Brightness and Speed Fine-Tuning.
- Three Dynamic White: Pure White, Daylight White, and Warm White.

### In-Wall DMX RGB-W Controller



## Installation

### A. Setting up your In-Wall DMX RGB-W Controller System

*Note: If you plan on using a housing, or putting the device through the wall, please make sure to run all wiring through the housing/casing you will be using before complete setup.*

1. View the back of the In-Wall DMX RGB-W Controller, and look at Figure 1. You will see the slots where both power and DMX cables will go.
2. Connect the Ground, DMX + and DMX – wires as demonstrated to a DMX enabled LED lighting fixture, and to the corresponding cables on the In-Wall DMX RGB-W Controller. You will need to unscrew each set-down screw (screws that hold the cables for power and DMX) to securely place and lock each wire.
3. Attach the 24V transformer power cable to the two labeled power slots.
4. Attach the exposed wires on the other end of your wire to the negative and positive power slots on the controller. Make sure they are secure.
5. Only after all of the previous steps are complete, plug in the 24V transformer to power.
6. Connect your power supply to the controller, and your In-Wall DMX RGB-W Controller will not be active.

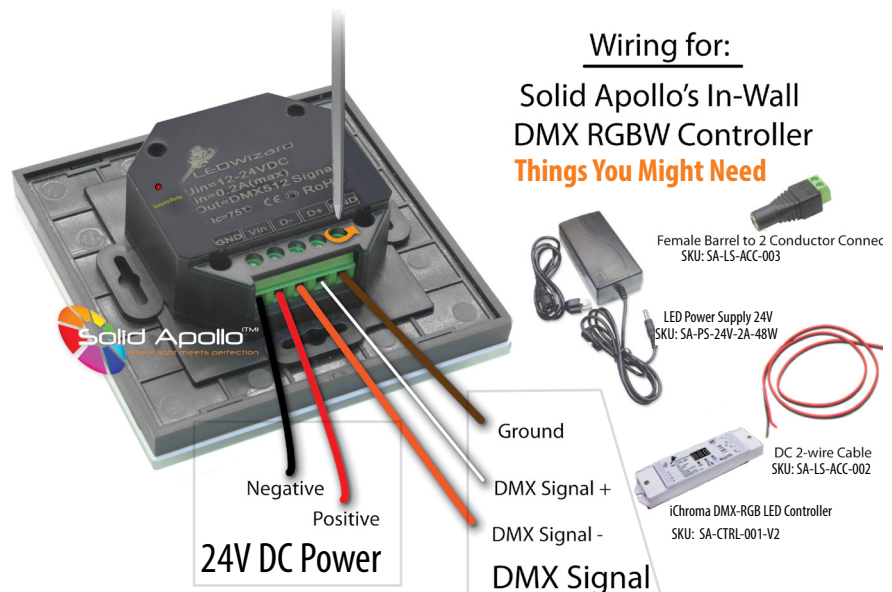


Figure # 1

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## In-Wall DMX RGB-W Controller



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### B. Placing the Unit inside a wall.

1. After thoroughly testing your controller with your LED Lighting Fixture to make sure it functions properly, you are able to recess your In-Wall DMX RGB-W Controller inside of a wall for a sleek, modern design. Please sign Figure #2 to see how the In-Wall DMX RGB-W Controller can be recessed within your wall.

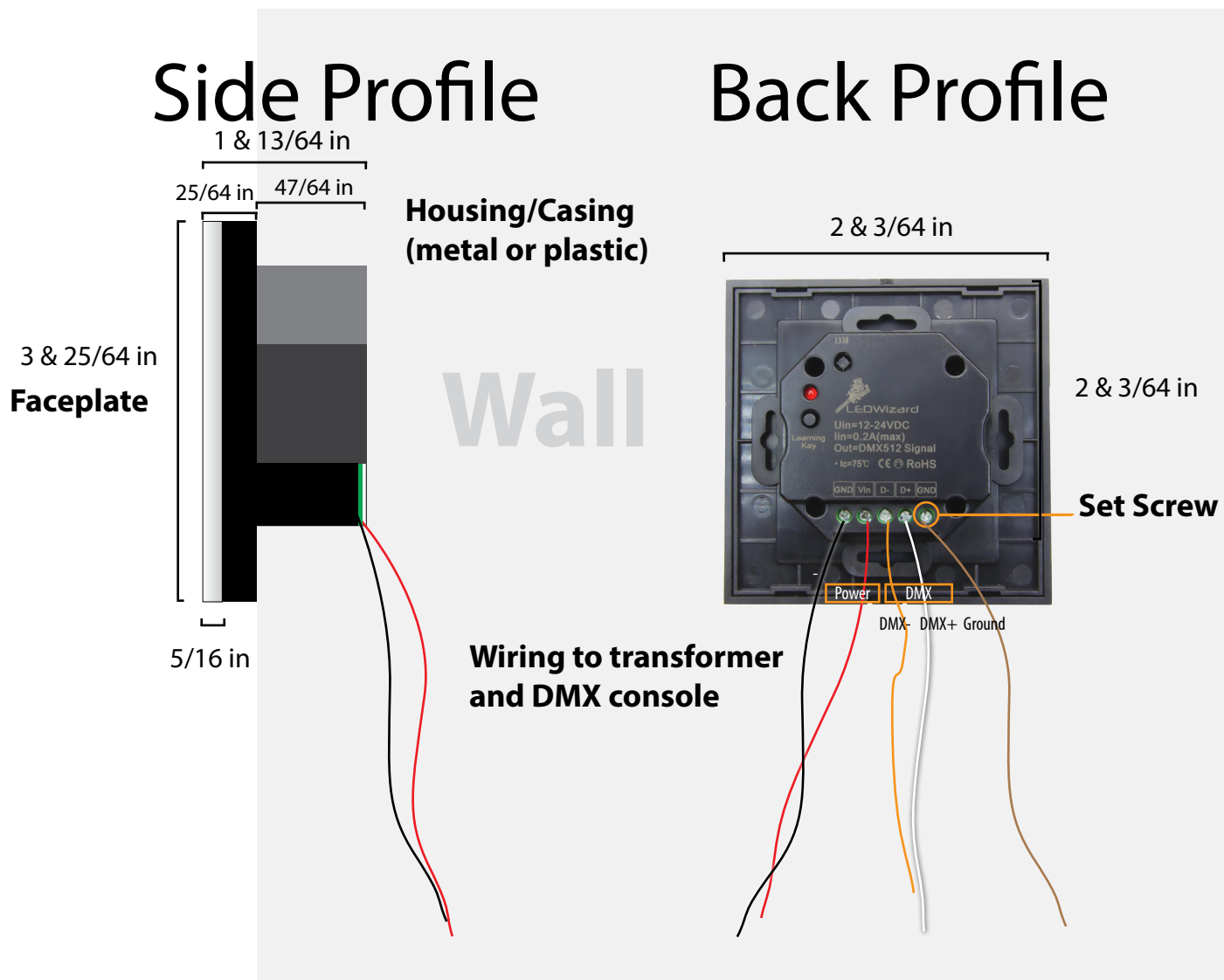


Figure # 2

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### Interface

You can easily and accurately control your lighting features with your In-Wall DMX RGB-W Controller's touch sensitive panel.

**Color Wheel:** Easily adjust to your preferred color.



**Color Fine Tuning:** Turn on/off pure colors and white, or slightly adjust colors to your needs.



**Power Button+ Instant White:** Control unit power and hold down for an instant pure white.



**Save Color Function:** Save up to 3 colors which you can recall at any time.



**Pause/Play:** Pause and play the onboard color changing program.



**Program Speed +/-:** Slow or speed up how quickly the onboard program changes between colors.



**Brightness:** Adjust the brightness of your selected color.



**Dynamic White Mode:** Easily select from pure white, warm white, and daylight white.



## In-wall DMX RGB-W Controller

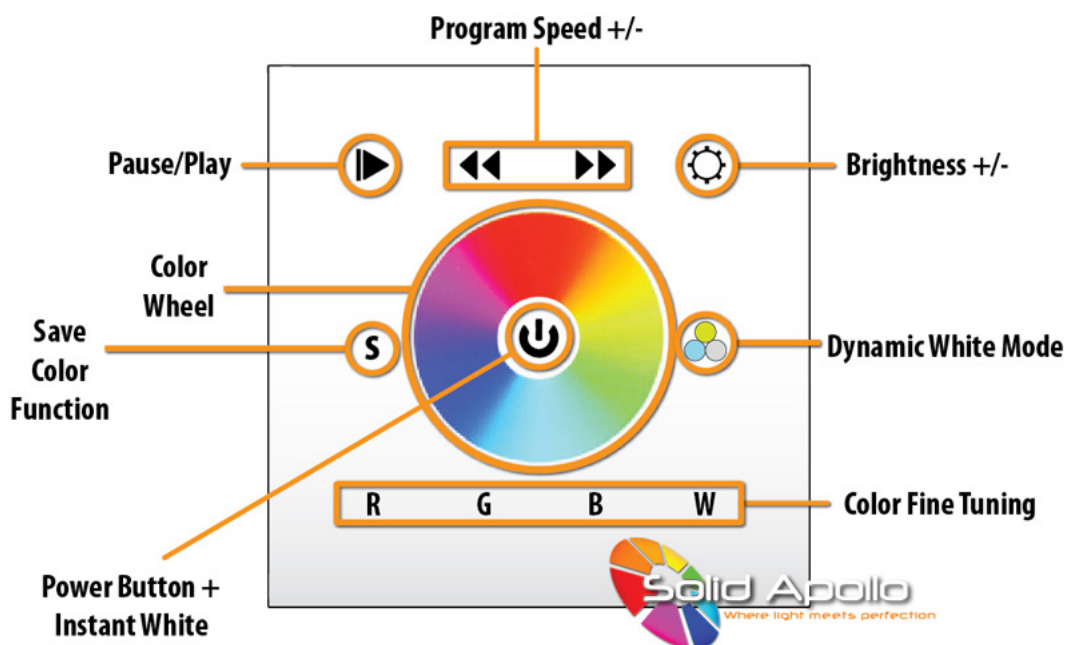


Figure # 3

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## In-Wall DMX RGB-W Controller



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## Functionality

**Controlling your color settings of your DMX lighting system is effortless with the In-Wall DMX RGB-W Controller. Each time you adjust a setting, you get a confirmation blink from the blue LED light above the color wheel to let you know your controller is sending out the correct signal.**

**Power Button/Instant White:** The most basic function on In-Wall DMX RGB-W Controller is turning your LED lighting system on and off. To turn your LED lighting system on or off, simply press and release the center power button. Secondly, you are able to create an instant, bright white using the same button. To create a bright, pure white, hold down the power button and after a moment, a pure white light at its brightest level will be emitted from your LED Light system.



**Creating Custom Colors:** You can create any custom color you desire in two different ways. Firstly, you can move your finger around the color wheel to accurately select thousands of different colors. You can also combine different amounts of reds, greens, and blues using the R, G, and B buttons to change the amount of each specific color. Each button controls a different color, by either turning off and on that color by pressing and releasing, or gradually increases or decreases that color by holding down that specific button.

Using the RGB-W buttons, it is easy to select the exact color you desire. To turn your LEDs red, simply press the (R) button once with no other colors on. This will produce an instant pure red color. To turn it off, press the (R) button once more. Pressing the (R) button then the blue (B) button will produce a purple color. Pressing the (R), (G), and (B) buttons in succession will produce a white.

To fine tune your colors, you can also hold down any color channel (red, green, or blue) to slowly add or subtract color. To add a bit of blue to your red color using this technique, first turn on the red channel by pressing (R) once. Now press and hold the blue (B) button to slowly add blue color, which will change your LED's color from pink, to magenta, to a full purple. If the (R) and (B) channels (buttons) are already engaged, hold and press down whichever color you wish to see less of, until the desired color is obtained.



or



**Pausing and playing the Pre-Loaded Program:** To start the color-changing program at anytime, simply press the play/pause button. The program will immediately start, beginning with blue, and cycling through the full visible spectrum. To pause at anytime at a preferred color, simply press the button again.



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**Adjusting program speed:** To change the speed of the pre-loaded program while the program is playing, simply press and release either the fast forward or slow down buttons once, and the program will restart at the new speed. Keep pressing in which ever direction you wish to proceed to increase or decrease speed.



**Saving a color:** You can save up to 3 unique colors using the save (S) button located on the front of your In-Wall DMX RGB-W controller. You can save a color three ways; by using the pre-installed program, using the color wheel, or through RGB buttons .

To use the pre-installed program to save a desired color, start the program, then pause at the color you would like to save. Now, simply hold the save (S) button until your LED lighting fixtures blink, and/or the blue LED on the interface blinks.

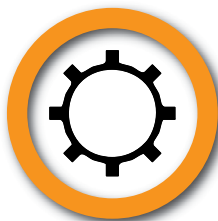
To save a color using the color wheel or RGB buttons, simply reach the color you would like to save through either method (described above) and simply hold the save (S) button until your LED lighting fixtures blink, and/or the blue LED on the interface blinks.

To recall your saved colors, tap and release the (S) button to cycle through the three saved colors.



**Changing brightness:** You can increase or decrease the brightness of any color, including the brightness of whites, but pressing the (Brightness) button pictured below. To increase brightness, simply press and release the (Brightness)button several times until your desired level of brightness appears.

You can also change the brightness of the pre-loaded program while it is running. Press and release the (Brightness) button to restart the program in a brighter level. Continued pressing simply cycles through all the available brightness levels for colors and programs.



**Dynamic White Mode:** Your In-Wall DMX RGB-W Controller comes with three preset whites you can easily access, all of which are created through the RGB channels of your controller. To cycle through Pure White, Daylight White, and Warm White, simply press the "Dynamic White Mode" Button and you can choose from all three.



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### Configuring Your Optional In-Wall DMX Remote

1. Once you feel comfortable with controlling your In-Wall DMX RGB-W Controller, you can sync up the optional remote that is compatible with the In-Wall Control Box. This remote allows you to control the color changing speed, pause and play the color changing program, save three colors, adjust Red, Green, and Blue color values, and change brightness while working as a simple on/off remote as well.
2. Once your In-Wall DMX Controller is powered on, and you have your DMX or RGB lighting fixture powered on and connected, you can start to sync your remote.
3. To Sync your remote, press and release the learning key on the back of your In-Wall Controller as seen below. This will cause the red indication light above the learning button to turn a solid red color. You can now press any of the buttons on your remote to send a signal to the controller. You can see if your remote has sent a successful series of signals, because the indication light will blink several times, indicating you have a successful synchronization.
4. If for some reason you need to resynchronize your controller and remote, or sync a new controller and remote. Simply hold down the learning key on the InWall DMX RGB-W Controller for 10 seconds. This will reset your controller. Repeat from step 3 to resynchronize.

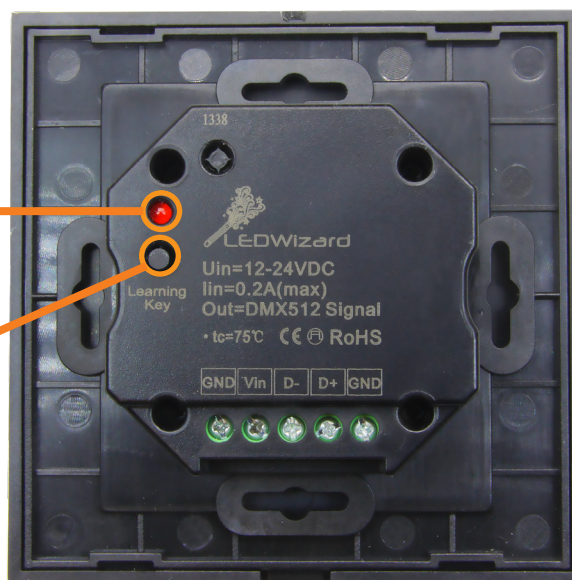


SKU# SA-CTRL-1000TX  
(optional)

**Note your controller and remote will remain paired even when unpowered.**

**Red Indication Light**

**Learning Key (button)**



**Figure #4**

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## In-Wall DMX RGB-W Controller

### Operating your remote.

Your Remote for the In-Wall DMX RGB-W Controller has all of the same functionality as your touch-pad, except the white color temperature change. Other than that, all of the buttons function the same and work in the same way as your controller.

#### Turning your lights on/off + Instant White Functionality

Your remote is always on, so you can turn your LED Lighting fixtures on and off by simply pressing and releasing the Power Button. Pressing and holding the power button for six seconds will make RGB LED Lighting fixtures produce a brilliant pure white.



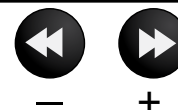
#### Pausing and Playing the color changing program

Your remote can easily pause and play your on-board color changing program at any time. By pressing the Pause/Play button on your remote at any time, you can start the color changing program. To pause the program, press the Pause/Play button again. This will pause your remote at any color you wish to hold static on your LED Lights.



#### Changing program speed.

Use the Program Speed +/- buttons to increase or decrease the speed of the program while it is running.



#### Saving and retrieving a selected color

Use the save button to access three saved colors. Save a color by pressing down on the button for three seconds when color is displayed.



#### Controlling Brightness

Use the Brightness +/- to slightly dim the LED Light fixtures that are hooked up to your In-Wall DMX RGB-W Controller



#### Controlling Red, Green, and Blue Color Values

Instantly produce a red, green, or blue color, using the R, G, and B buttons, or gradually add a color value by pressing and holding down on a color button. Press down again to take away color value.



#### White Channel Control

Instantly turn on and off your White LED channel on RGB-W enabled devices.



Power Button/  
Instant White

Pause/Play

Program Speed +/-

Save Color  
Function

Brightness  
+/-

Color Fine  
Tuning

White Channel  
Control



Figure #5

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## Technical Specifications

### Controller

- 24V DC operation
- 5W minimum power
- 4 channel RGB-W
- DMX 512 compatible
- This controller uses DMX address 1,2,3, and 4

### Optional Remote

- RF Remote
- CR 2025 3V Battery
- 1.6 x 5.5 inches
- 30ft unobstructed range