

### Manual Content

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### Product Description

Solid Apollo's new Pro-Wifi DMX 8 Zone LED Controller is a smart and powerful DMX controller that allows you to control DMX LED fixtures through your Wi-Fi with a mobile app.

This DMX controller gives you full control of up to 8 different zones/areas in your home and business by using Solid Apollo's "EasyLighting" smartphone app. The user-friendly app offers so many great features to customize and control your project lighting.

Installation of Pro-Wifi DMX is simple; it connects directly to your router with a simple RJ45 cable (included) and requires absolutely no configuration. The Pro-Wifi DMX Controller also has its own optional local Wi-fi that can be used to pair and control the LED fixtures in the absence of internet Wi-fi.



### Product Features

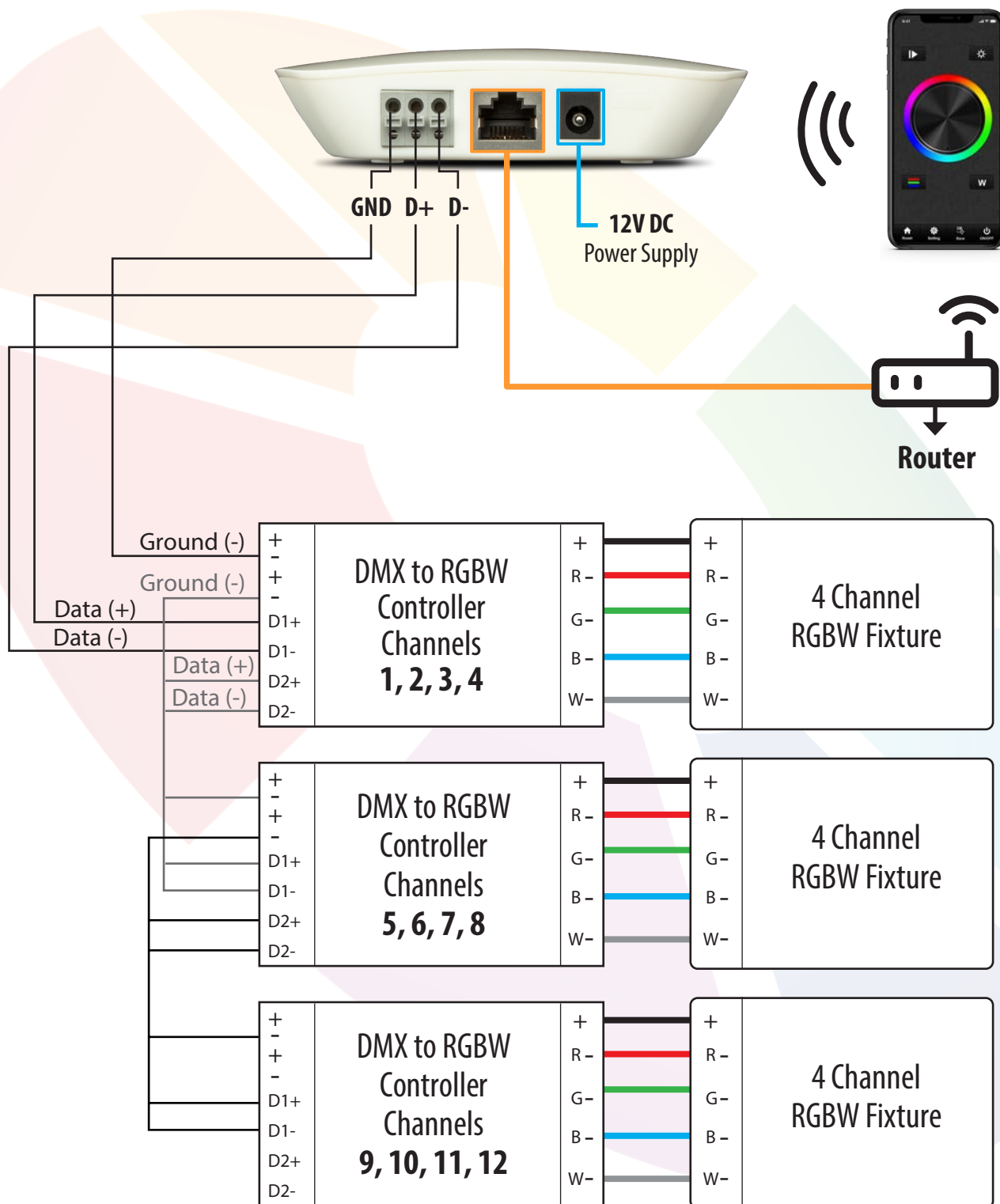
- Controls DMX fixtures with an app via Wifi
- Multiple zone/area control (up to 8 Zones)
- Can control an unlimited number of DMX fixtures in each zone.
- User-friendly customizable smartphone app
- Plug and Play Installation
- Controls:
  - Single-color LED fixtures
  - Dynamic-white/ White-tunable LED fixtures
  - Color-changing (RGB and RGBW) LED fixtures

### Product Specs

#### *Pro-Wifi Hub (Controller)*

- Input Voltage : 12V DC
- Control System : DMX & Wifi 2.4G
- DMX Address : 32 (8 sets of 4)
- Controllable Zones : 8
- Weight : 0.62 lb
- Color : White
- Range : 65ft
- Dimension : 3.3" x 4.3" x 0.96"
- IP Rating : IP20
- Warranty : 3 Years
- Working Temp. : 32F – 104F
- Certification : CE, RoHS

### Product Wiring Diagram



### Product Diagram and Installation

#### Pro-Wifi DMX Hub



#### Installation of the Pro-Wifi DMX 8 Zone Controller

1. Connect the provided power supply to the power input port on the Pro-Wifi hub.
2. Install the Pro-Wifi hub:

A. Using your home Wifi: with this option, you can be using the internet on your phone and at the same time able to control your lights with the “**EasyLighting**” app. There is no need to disconnect from the internet to control your lights like other old systems used to require.

To install the hub through this option, connect one end of the provided ethernet (RJ45) cable to the WLAN port of the Pro-Wifi hub and the other end to any free ethernet port at the back of your home router. A blue indicator light on the hub will turn ON showing success.



B. Using the Pro-Wifi local Wifi: with this option there is no access to the internet. The built-in wifi is only for pairing the “**EasyLighting**” app to the Pro-Wifi hub. This option is useful when there is no home wifi/internet. It is also useful for testing the Pro-Wifi controller prior to installation.

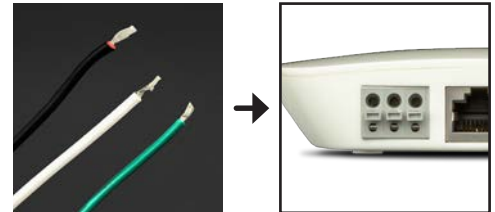
To use this option, there is no physical connection needed. Connect to the Pro-Wifi's network by following **Step 8** on Pg.5.



### Product Installation (cont'd)

3. Connect your LED fixture's DMX cables to the DMX Signal Output push-down terminals of the Pro-wifi Hub:

- A. Strip-off ¼ inch of the plastic jacket at the end of the DMX cable wires
- B. Connect the positive data wire to the D+ and negative data wire to the D-. If there is a ground data wire, connect it to the GND (*please refer to the wiring diagram - pg.2 for complete wiring guide*).



4. In step 4, please refer to the wiring diagram (pg.2) for complete wiring guide - if using multiple LED fixtures in one or more than one zone.

- A. Connect only one of the LED fixtures to the Pro-wifi Hub via the DMX signal output and then connect/daisy-chain the data cable from that fixture to the second fixture, and then daisy-chain the second to the third fixture and so on.

5. Power up to Pro-Wifi.

6. Set the DMX starting address on your DMX LED fixture (see table below.)

**DMX Address per Zone**

Zone	Default Name on App	DMX Starting Address	Full DMX Addresses in Each Zone
1	Bedroom	001	001, 002, 003, 004
2	Living Room	005	005, 006, 007, 008
3	Kitchen	009	009, 010, 011, 012
4	Bathroom	013	013, 014, 015, 016
5	Washroom	017	017, 018, 019, 020
6	Garden	021	021, 022, 023, 024
7	Corridor	025	025, 026, 027, 028
8	Stairway	029	029, 030, 031, 032

7. Download and install the "EasyLighting" smartphone app from your App Store or Google Play.



**EasyLighting**

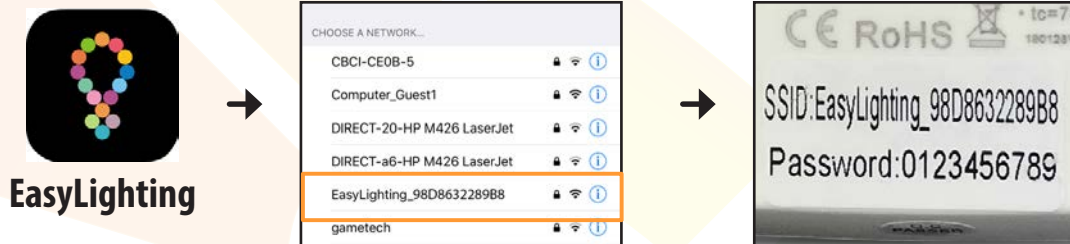


### Product Installation (cont'd)

#### 8. Open the app after installation. **Note:**

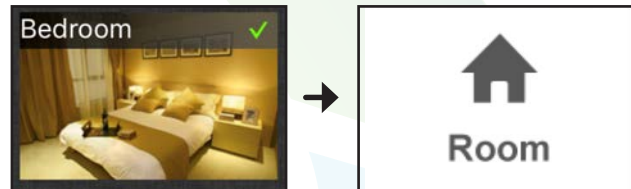
- A. If you want to use your home wifi to control the LED fixtures, make sure that your phone is connected to that wifi before opening the app. If you want to use the Pro-Wifi's local network, connect your phone to it before opening the app.

The Pro-Wifi's network ID and Password are all printed at the bottom of the Pro-Wifi Hub. Go to your phone's wifi settings and search for the Pro-Wifi's network ID. Connect to it with the password printed at the bottom of the Pro-Wifi Hub.



9. Select the Zone that your DMX LED fixture is addressed to (for example: 001-004 is the first zone = Bedroom on the app, 005 - 008 is zone 2 = Living room, 009-012 is zone 3 = Kitchen on the app, and so on. A green checkmark will appear at the top right corner of the selected zone/room.

When done tap the home icon located on the bottom right of the menu bar.



10. Once in the selected Zone/Room, an RGB color wheel be shown. Please note, within each Zone/Room there are four available color-wheel. The color wheel are as follow: RGB & RGB-W, 2 Dynamic White and for single color fixture. You can use these color-wheels based on your project.



The other color-wheels will not be displayed at first glance. To access the 3 other color-wheels, you just have to repeatedly press and slide down the tab of the selected Zone/Room (**located at the top of the screen**) you're in (see example below).



11. Rotate the color-wheel or tap any of the control buttons and the LED fixture should accordingly respond to the control activity on the app.

**Note:** If the LED fixture does not respond to the control activities, check to make sure that the DMX starting address on the fixture matches the zone that you are currently controlling. If it does not, tap the home key to go back and select the correct zone. Please refer to **DMX Address table** in Step 6 - Pg. 4 for a breakdown of the DMX addresses in each zone.



### Product Operation : App Features

#### App Features

This section will show you a brief explanation of the featured icons, please refer to the pages corresponding to the icons for more information.



**Color-Changing Program Player**  
(pg.7)

**Brightness Slide**  
(pg.7)

**Color-Wheel for Color Selection**  
(pg.7)

**Red, Green, Blue Color Mixing**  
(pg.7)

**White Brightness Slide**  
(pg.7)

**Room** **Setting** **Save** **ON/OFF**

**Zone / Rooms / Areas Assignment**  
(pg.8)

**App Configuration**  
(pg.8)

**Scene Saving**  
(pg.10)

**ON/OFF**

### Product Operation : App Features

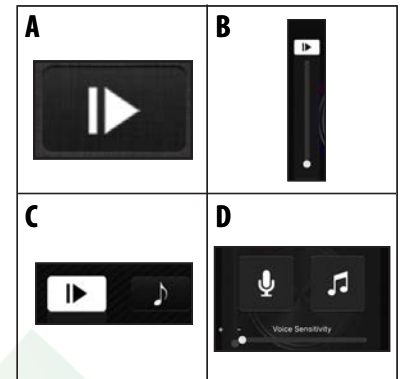
#### Featured App Icons

##### Color Changing Program Player & Music Colors Synchronizer

Tap the **Color Changing icon** once and it will open two pads: the color-changing program player and music tab. There are 10 built-in programs. One tap will play the first program (see pic A), another tap will stop it, and the next tap will play the second program and so on.

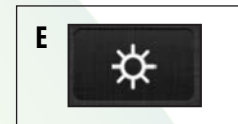
Under the program player is a slider for speeding up or slowing down the running program (see pic B).

While still within the Color Changing Program player, tap the **music icon** (located next to the Color Changing icon - see pic C) and a **mic** and **music player** (see pic D) icon will appear. Select the **mic** icon to synchronize and change the running color-changing program with voice; or select the music icon to choose and play music from your phone so that the running color-changing program will change colors along with the beats. Under the **mic** and **music** icons is a slider for increasing/decreasing the sensitivity of the color-changing to voice pitch or music beats.



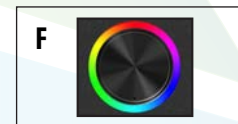
##### Brightness Slide

Tap the **Brightness icon** (see pic E) once and a brightness slider will pop up. Slide up/down to adjust brightness of the RGB outputs from 1% to 100%. Tap the Brightness icon again to exit.



##### Color Wheel

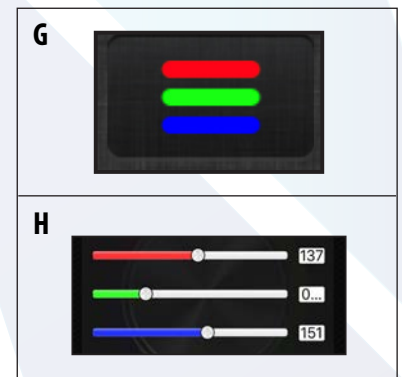
Rotate the **color-wheel** (see pic F) around to choose your desired color. There is a black dot on the wheel for pointing to a color.



##### RGB Color Mixing

The **RGB Color Mixing icon** (see pic G) is for two things: making a pure Red, Green, or Blue; or mixing R, G, B in specific amounts to produce other colors.

1. To produce any of the pure RGB colors, first clear any existing color on the fixture by sliding each of the 3 sliders (R, G, B) from 0 to 255 and back to 0 (i.e. left to right and then back to left on the slider - (see pic H)). This will turn off any colors on the fixture. Then you can slide the first slider to get pure Red or the Second to get pure Green or third for pure blue. If you display pure Red for example and then want to do pure Green, you will have to first clear the Red by sliding it to 255 and back to 0 before sliding on the green, otherwise it will mix Red and Green and give you yellow.
2. To produce other colors by mixing RGB, first clear any existing color on the fixture by sliding each of the 3 sliders (R, G, B) from 0 to 255 and back to 0. This will turn off any colors on the fixture. Then you can slide the RGB sliders in your desired proportions to mix and produce colors.



##### White Brightness Control

Tap the **W** button (see pic I) once and a brightness slider will pop up. Slide up/down to adjust brightness of the white output/channel from 1% to 100%. Tap the **W** again to exit the slider.





### Product Operation : App Features (continued)

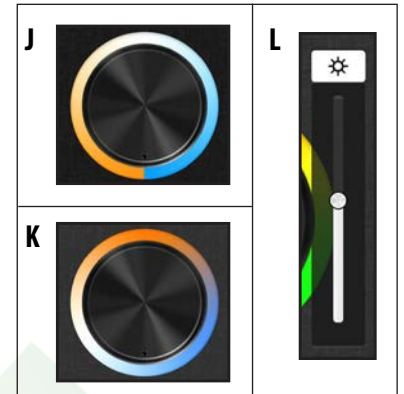
#### Available Tunable Fixture Controls

The available tunable fixture controls are accessible by sliding the tab on the top of the screen. Please refer to **pg. 5 - step 10** to access this feature.

#### Dynamic-White / White-tunable Fixtures

There are two color-wheel control for white-tunable LED fixtures (see pic J & K) on the app. Both have similar functions:

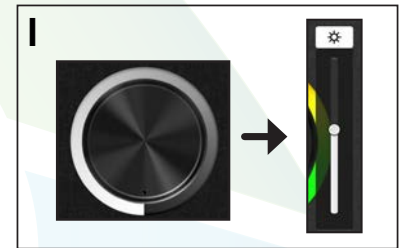
1. Correlated color temperature (CCT) selection wheel: Rotate the wheel to choose any color temperature between warm white (yellow) and cool (blue-ish) white. There is a black dot on the wheel for pointing to a color temperature.
2. Brightness control: Tap the Brightness icon (see pic L) once and the brightness control slider will pop up. Slide up/down to adjust the brightness of the LED fixture from 1% to 100%.



#### Single-Color Tunable Fixture

The single color tunable fixture control is accessible by sliding the tab on the top of the screen. Please refer to **pg. 5 - step 10** to access this feature.

1. Brightness control Wheel: Rotate the wheel clockwise to brighten the lights and the opposite way to dim the lights.
2. Brightness control: Tap the Brightness icon (see pic L) once and the brightness control slider will pop up. Slide up/down to adjust the brightness of the LED fixture from 1% to 100%.



### App Configuration/Customization

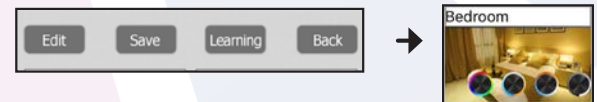
#### Zone/Room Personalization

The name, picture, and type of LED fixtures of a zone/room can easily be personalized on the app. There are 8 zones available and each can be customized. To edit and personalize a zone:

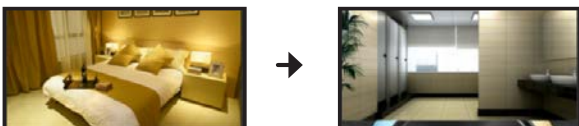
1. Tap the Settings menu and select the "Edit rooms information" option.



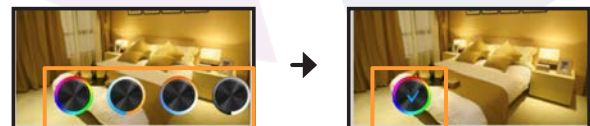
2. Tap the Settings menu and select the "Edit rooms information" option.
3. To change the zone's name, tap on the existing name and delete it before entering a new name. When done tap on the icon "Save".



4. To change the photo, tap on the zone's background picture. This will open the option to either take a picture from your camera or select a photo from your phone gallery, When done tap on the icon "Save" to save settings.



5. To choose the type of fixture in the zone, tap on the small color wheels at the bottom of the zone's photo to select/unselect the desired fixture. When done tap on the icon "Save".





### Product Operation : App Features (continued)

#### Zone/rooms/areas Assignment

The controller is designed to control 8 zones with 4 DMX addresses in each. Each zone is assigned the 4 DMX addresses by default even if the LED fixture(s) in that zone use less than 4 addresses.

Therefore, Zone 1 uses DMX addresses 1,2,3 and 4; Zone 2 uses the next 4 DMX addresses (5, 6, 7 and 8); and so forth (see table below). This allows you to control the LED fixture(s) in one zone completely independent from another zone.

An unlimited number of DMX LED fixtures can be placed and controlled in each zone as long as they are all connected and given the same DMX starting address of the zone.

**DMX Address per Zone**

Zone	Default Name on App	DMX Starting Address	Full DMX Addresses in Each Zone
1	Bedroom	001	001, 002, 003, 004
2	Living Room	005	005, 006, 007, 008
3	Kitchen	009	009, 010, 011, 012
4	Bathroom	013	013, 014, 015, 016
5	Washroom	017	017, 018, 019, 020
6	Garden	021	021, 022, 023, 024
7	Corridor	025	025, 026, 027, 028
8	Stairway	029	029, 030, 031, 032

The addresses in the table above are built-in and fixed for each zone and cannot be changed.

Therefore, the DMX addresses on the LED fixtures used, should be set on the fixture to match the desired zone that you want to place the LED fixture in.

If your fixture does not have the built-in buttons to set its address, you can use DMX addressers such as **Solid Apollo's DMX Addresser** device to set your LED fixture(s) DMX starting address to the zone you want to place it in.

Once the correct DMX address is set on the LED fixture, the app will automatically be able to control the fixture. Just select the zone that the fixture is addressed to, and you will be able to fully control it.



**DMX Addresser**

SA-CTRL-DMX-Addresser

### Product Operation : App Features (continued)

#### Scene Saving

There are 8 scene saving options for each zone/area. These can easily be accessed from the Save tab on the bottom menu bar. The scene saving options let you save a desired color scene (color + brightness level) or color-changing program, and easily recall it in that zone at any time with just a simple tap. To save a color scene or program in a zone:

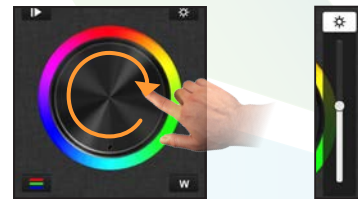
1. Tap the home icon and select the zone that you desire to save the scene in.



2. Tap the home icon again and select the type of tunable fixture in that zone to access the controls. (to access the tunable fixture controls, slide the tab on the top of the screen. Please refer to **pg. 5 - step 10**).



3. Set the desired color scene to save (color at your desired brightness level) or choose your desired color-changing program from the 10 built-in programs for RGB/RGBW fixtures.



4. Tap the **Save** tab on the bottom menu bar. A block with 8 saving options (S1 to S8) will pop up .



5. Press and hold the desired tab (S1 to S8) under which you want to save the scene, until the lights flash .



6. To recall the saved scene at any time, enter the zone (steps 1 and 2 above) and simply tap the saving option under which the scene was saved.



### Product Troubleshooting

This section will show you how to troubleshoot the Pro-Wifi DMX 8 Zone Controller.

1. **Light(s) are ON but not responding to controls on the app:** There are four possibilities for this; *incorrect wifi connections, incorrect DMX cable connection* between the LED fixture and Pro-wifi Hub, *incorrect DMX addressing of LED fixture(s), or incorrect Zone control on app.*

#### **Incorrect wifi connections**

##### **A.** If using your home wifi,

- Ensure that the Pro-Wifi hub is correctly connected to your home router through a good ethernet (RJ45) cable.
- Make sure that the home wifi is working and that the blue LED indicator on the Pro-Wifi hub is ON.
- Ensure that your phone/device containing the EasyLighting app is connected to the same home wifi.
- Close and restart the EasyLighting app, if it does not work, go to the app's Settings and select "**Connect Wifi LED controller to your home network**" to connect.

##### **B.** If using the Pro-wifi's local network,

- Make sure that the Pro-Wifi hub is powered ON and that its wifi network name (see bottom of the hub or refer to pg.5) can be found by your phone/device.
- Connect your device/phone to the network with the password printed at the bottom of the hub.

#### **Incorrect DMX cable connection between the LED fixture and Pro-wifi Hub**

- Please refer to the wiring diagram on pg.2 and follow the instructions for "*Installation of the Pro-Wifi DMX 8 Zone Controller*" - pg.4 step 3.
- Make sure that the LED fixture's DMX data cables are correct connected to the right DMX output port on the hub (positive wire to D+ and negative wire to D-).
- Make sure that the plastic sheaths at the data wire ends are stripped off (about ¼ inch) before installing them into the push-terminals.
- Ensure that there is proper contact between the metal-stands of the wires with the wire-clamp inside the push-terminal. This can be done by lightly pulling the wires after installing them into the push-terminal to see if they will come out.

#### **Incorrect DMX addressing of LED fixture**

- Follow the instructions on *Zone/Room/Area Assignment* (pg.9) in the *Product Operation Guide: App Features* section.
- Make sure that the LED fixtures are properly addressed with the correct zone's starting address see the table in the *Zone/Room/Area Assignment* section.

#### **Incorrect Zone Control on the App**

- Select the correct zone that the LED fixture is addressed to. See the table in the *Zone/Room/Area Assignment* (pg.9) section.
- Slide the tabs and navigate through the correct Tunable Fixture Controls representing the correct type of fixture(s) in a zone (RGB/RGBW fixtures, dynamic-white/white-tunable fixtures, and single-color fixtures) in order to access the right controls (see pg.8).
- If the wrong circle representing the LED fixtures is initially set, use the "*Edit room information*" (see pg.8 under *App Configuration / Customization*) option in the Settings tab to edit and checkmark the correct circle for the zone .
- Be sure not to select multiple zones (unless desired) to control the lights.
- After selecting a zone (with the checkmark showing at the top right corner of the zone's picture) always remember to tap the home icon to access the controls.