



HUSSONG MANUFACTURING CO., INC.  
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# LED Supplemental Manual

**For Models: Generation 6020**



English and French installation manuals are available through your local dealer or website. Visit our website [www.kozyheat.com](http://www.kozyheat.com).

Les manuels d'installation en français et en anglais sont disponibles chez votre détaillant local. Visitez [www.kozyheat.com](http://www.kozyheat.com).

INSTALLER: Leave this manual with the appliance.

CONSUMER: Retain this manual for future reference.



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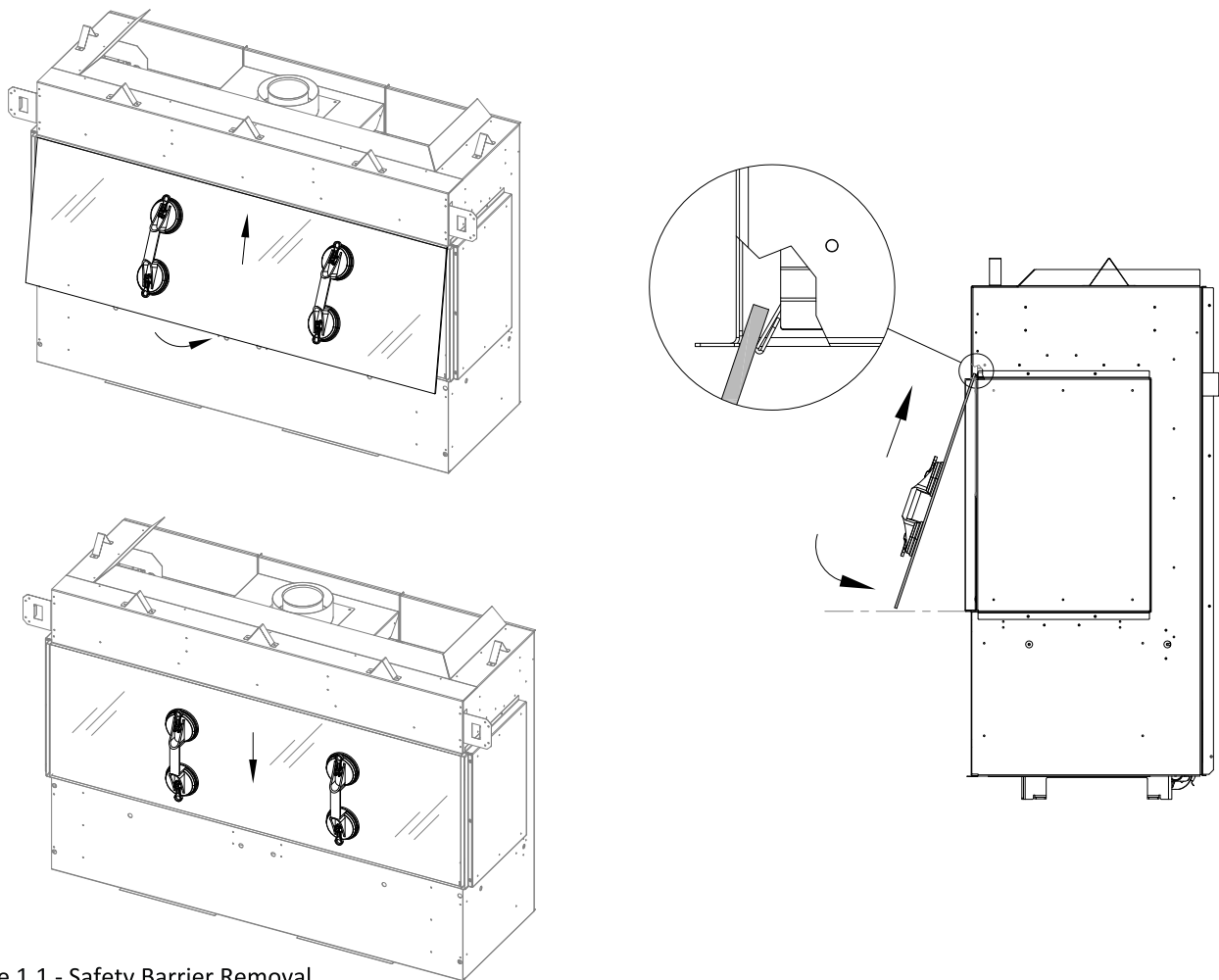
# 1.0 How to Access LED Controller

The LED controller is inside the fireplace along the right side of the fireplace. You will need to access the LED controller to sync it to a Wi-Fi network or to sync a remote.

Refer to the fireplace installation manual for additional information.

## Instructions

1. Remove the front glass safety barrier. See Figure 1.1.
2. Remove the front and both sides of the exterior media tray. See Figure 1.2.
3. Remove the right side interior panel. This interior panel is a black metal panel that is preinstalled from the factory. This panel would be replaced with a black glass side panel if you chose the optional black glass refractory panel set. See Figure 1.3.
4. Lift up the exterior LED assembly and move it towards you slightly. Locate the LED controller access tray along the right side of the fireplace. Loosen the nuts that secure the LED controller access tray and lift up on the access tray. When you lift up the access tray to it highest position you then slide the access tray to the left to place it in the top position. See Figure 1.4. The image in Figure 1.4 has the side of the fireplace removed for better visibility of the access tray.
5. You will now have the LED controller lifted up where you can access it. You may find it easiest to remove the exterior LED assembly to interact with the LED controller. Locate the plug connections on top of the LED controller to disconnect the exterior LED assembly. You can now proceed with interacting with the LED controller in the following section.



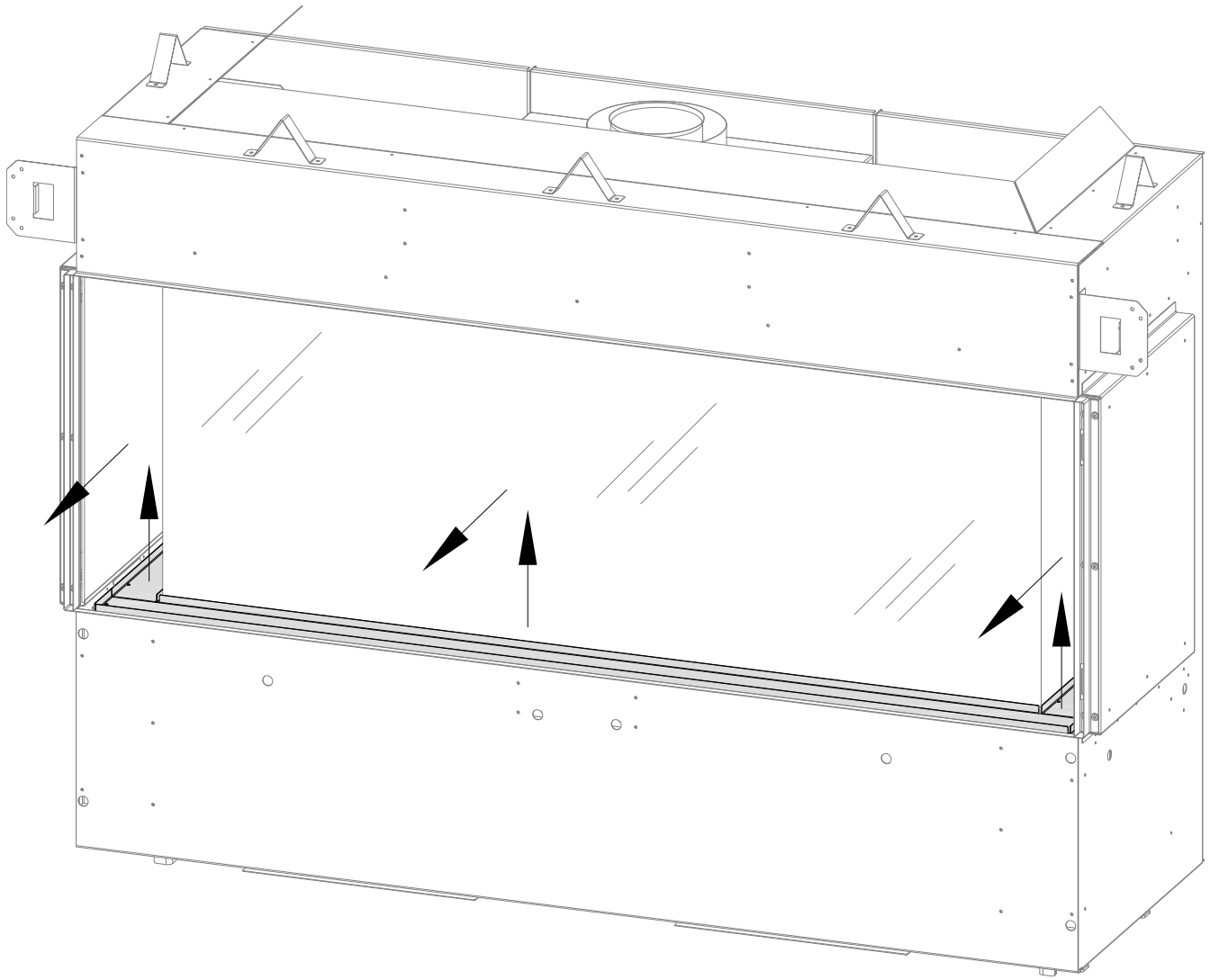


Figure 1.2 - Exterior Media Tray Removal

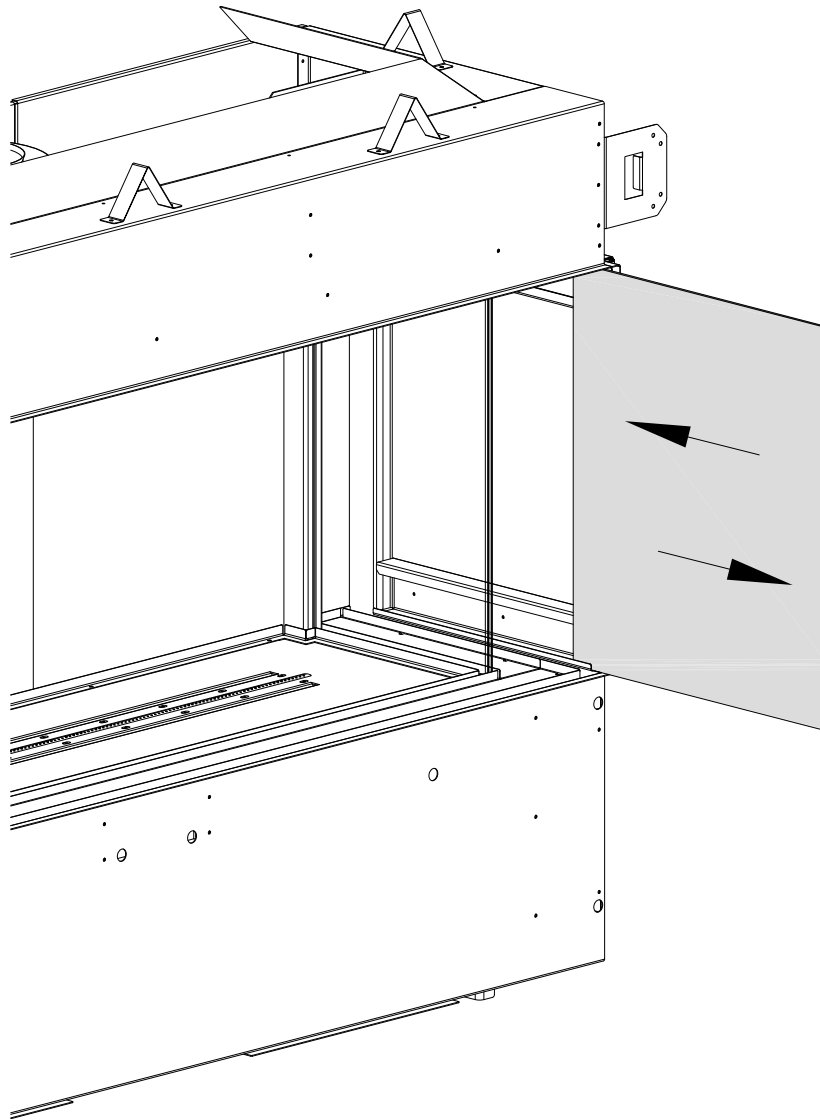


Figure 1.3 - Removal of Right Side Interior Panel

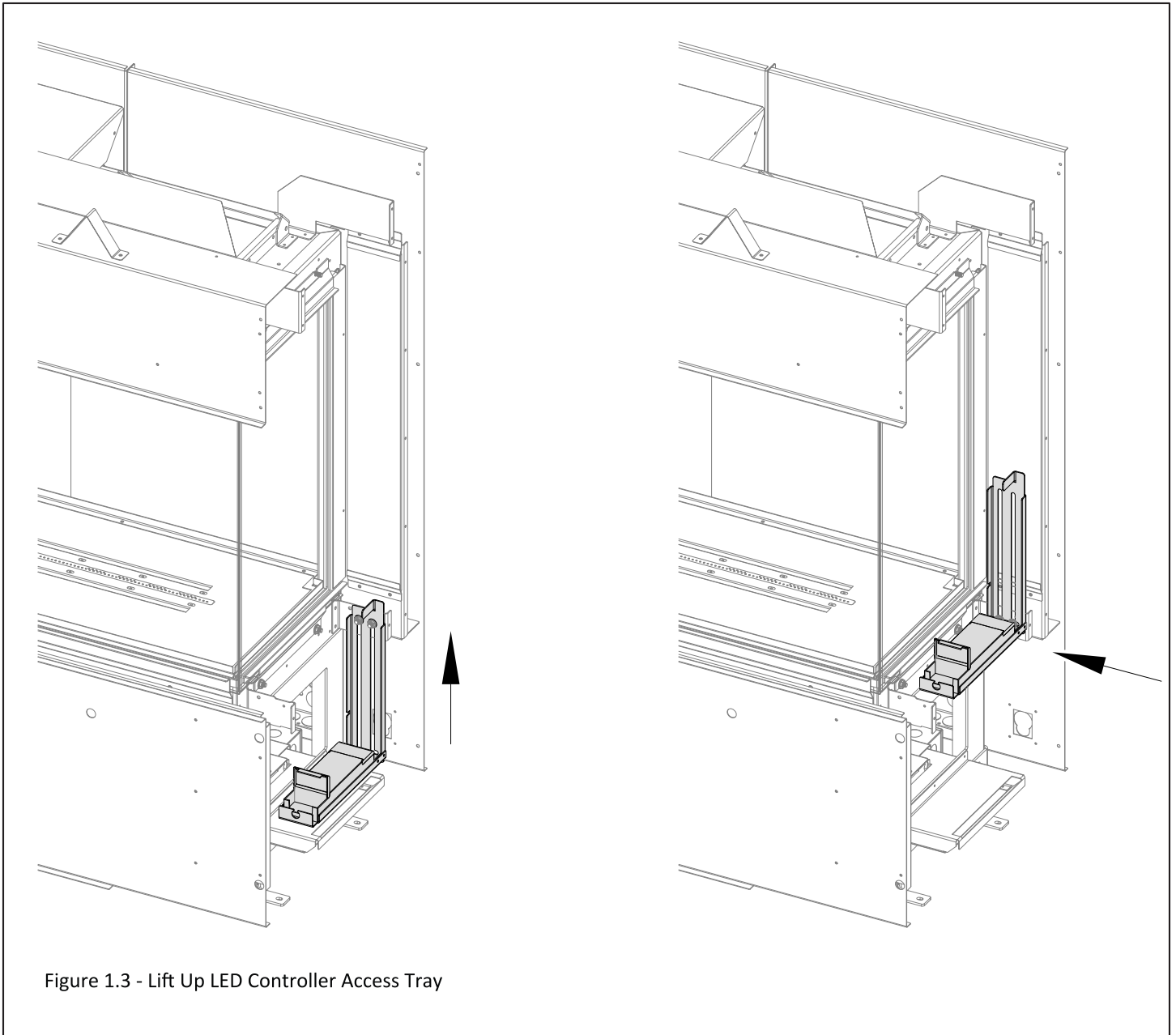


Figure 1.3 - Lift Up LED Controller Access Tray

## 2.0 LED Controller and Wi-Fi Connection

Once power is supplied to the fireplace / LED System the LEDs will initially flash. If you want to only operate the LEDs with the provided remote then continue to Section 2.1. You will sync the remote to the LED driver. If you want to use the Tuya Smart App Proceed to Section 2.3.

### 2.1 Syncing the Remote

Instructions:

1. Open the left cover on the V5-L(WT) LED Controller. When the controller is inside the fireplace located on the access tray the access cover will be the one located closest to the front of the fireplace.
  2. Verify the LED indicator is solid green. Press and hold the “MATCH” button for 1-2 seconds and the LED indicator will start flashing green. Note: If it flashing a light purple color the “MATCH” button was held down too long and the device has cleared the setting. Wait until the LED indicator has stopped flashing and start over.
  3. While the LED indicator is flashing green press the power button the the remote then press a command on the LED color wheel of the remote. You should see the color adjust on the LED kit. If the LED color does not change to match your movement on the color try pressing the power button again. Once you have seen the LED system react to the correct command from the remote you have a successfully paired remote. If the system is not taking commands from the remote then repeat the remote process starting with Step 2.
- If you want to change to a different remote or if you are having trouble with the remote commands you can erase the settings by holding the “MATCH” button for 10 seconds. After 10 seconds you will see the LED indicator start flashing and now you have cleared the settings. You can repeat the process for learning a remote. It is important to note that this will also clear any Wi-Fi settings. This reset process clears all settings for the remote or Wi-Fi.

### 2.2 Dip Switch

For successful RGBW operation the Dip Switch settings need to match Figure 2.2 and Table 2.1. Dip Switch PIN 1 needs to be up and PIN 2 needs to be down. If you have the dip switches incorrect you may have no LEDs or only some function.

Table 2.1 shows the different dip switch positions, what type of LEDs the dip switch setting is programmed for, and what color the LED indicator will be for the dip switch setting. Reference Figure 2.2 for Dip Switch location and LED Indicator Location.



Figure 2.1 - Access Cover

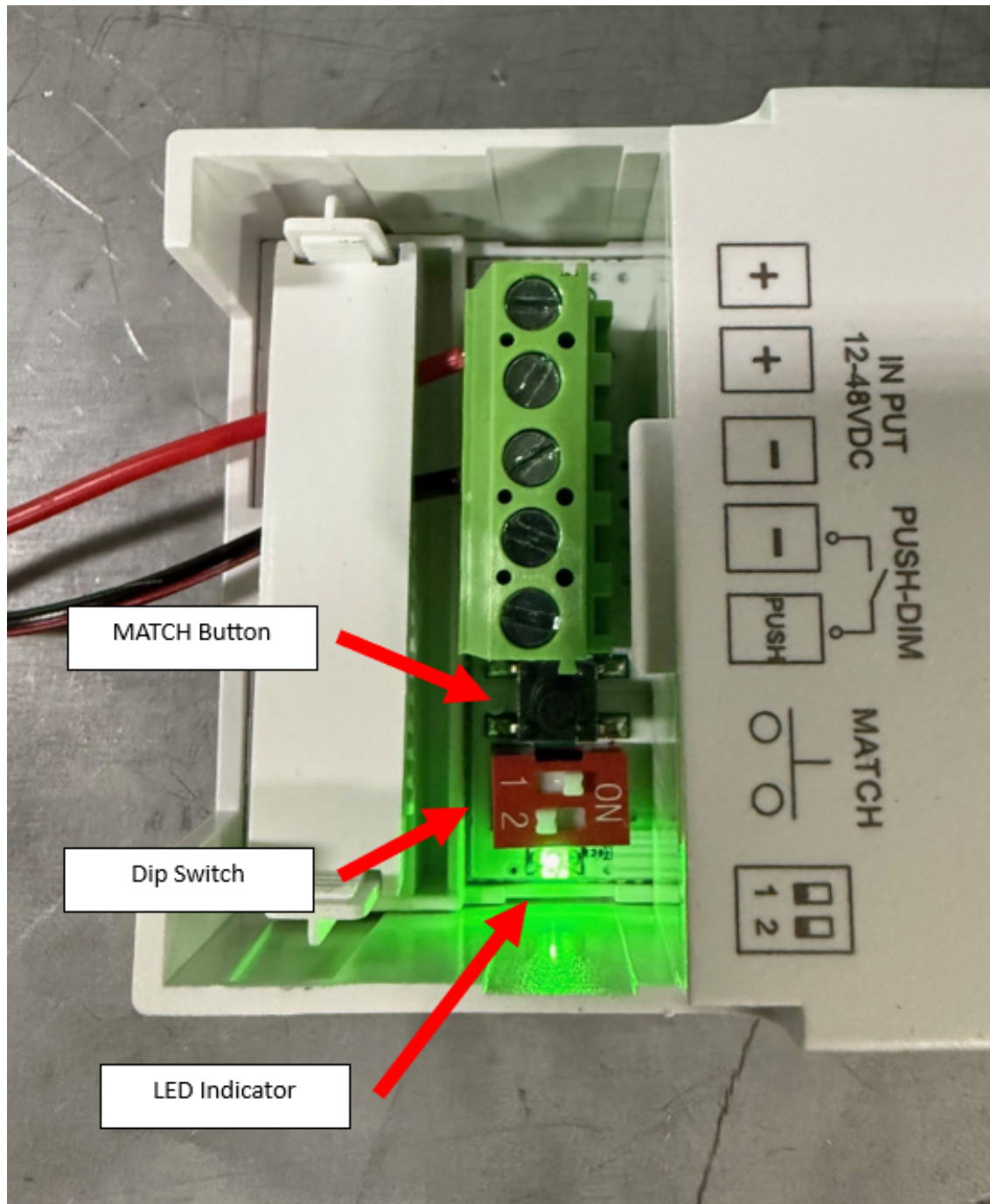
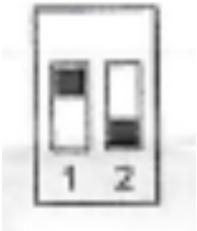
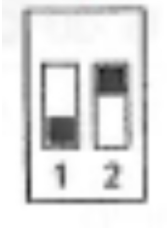
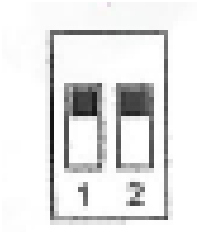
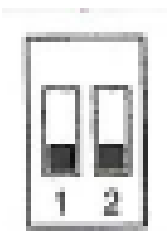


Figure 2.3 - Left Access Items

**Table 2.1 - Dip Switch Position Information**

| Dip Switch Position                                                                 | LED Function                                                               | LED Indicator Color |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------|
|    | <b>RGBW LED</b><br><b>(Correct position for Generation 6020 Fireplace)</b> | <b>Green</b>        |
|   | <b>RGB LED</b><br><b>(Incorrect Position)</b>                              | <b>Red</b>          |
|  | <b>RGB+CCT</b><br><b>(Incorrect Position)</b>                              | <b>Blue</b>         |
|  | <b>Dual Color CCT</b><br><b>(Incorrect Position)</b>                       | <b>Yellow</b>       |

## 2.3 Download the Tuya Smart App

- If you want to connect the LED controller to your Wi-Fi network so you can adjust the LEDs from your phone you will have to download the Tuya Smart App.
- Download the app from the Apple or Android App Store. Search “Tuya Smart” and you should see this screen. Once you download the app and open it, you will see the option to use the app as a guest or create an account. You can use the app as a guest and control the LEDs as a single user. Not all features are available in app when using guest mode.
- If you want multiple users/devices to be able to control the fireplace LEDs you will have to create a user account. A verified user account is required for each user when you want to use the fireplace with multiple users.

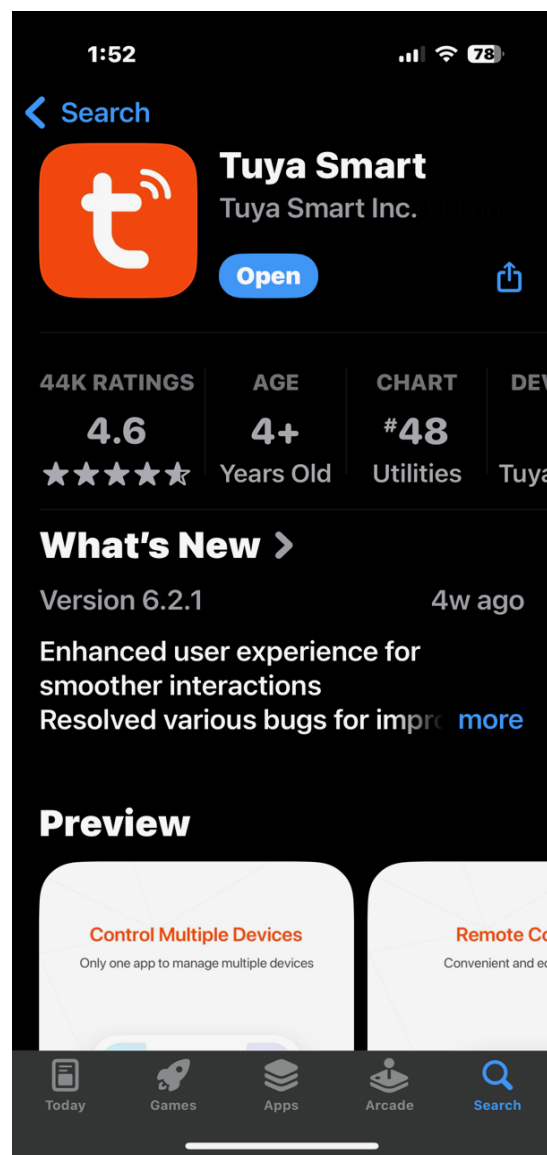


Figure 2.4 - Download the app

## 2.4 Wi-Fi Connection

- First you will place the LED controller in the pairing mode. This can be accomplished by pressing the “MATCH” button quickly two times or by pressing and holding the button for two seconds. This will clear the previous network connection and enter in configuration mode. The LED indicator will flash purple 10 times to indicate that it is in pairing mode. Figure 1.3 for button and LED location.

Note: To connect the LED controller to the Wi-Fi at your location you must have your phone connected to the Wi-Fi network.

- Go to the app home screen and click the “+” logo in the top right corner. See Figure 2.5.
- After clicking the “+” logo a window will appear at the bottom of the app for the device you previously placed in pairing mode. Select “Add”. See Figure 2.6.
- The next window will show the Wi-Fi network that your phone is connected to. This is how you add the LED controller to the Wi-Fi network. Ensure the network information is correct and select “next”. See Figure 2.7.
- Once you have added the device you will be taken to the home screen for the device. You can now turn on the device by clicking the power button at the bottom and adjust the features. See Figure 2.8.
- When you return to the app home screen you should see the new device. See Figure 2.9.

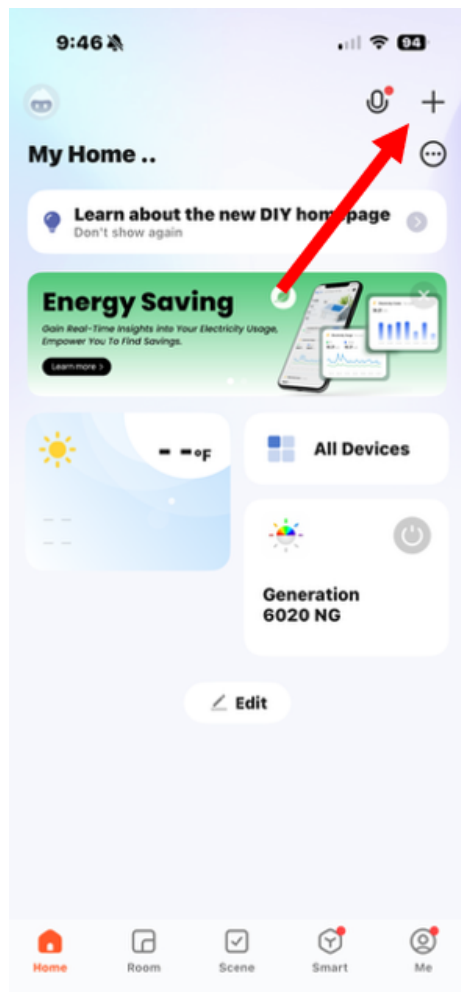


Figure 2.5 - App Home Screen

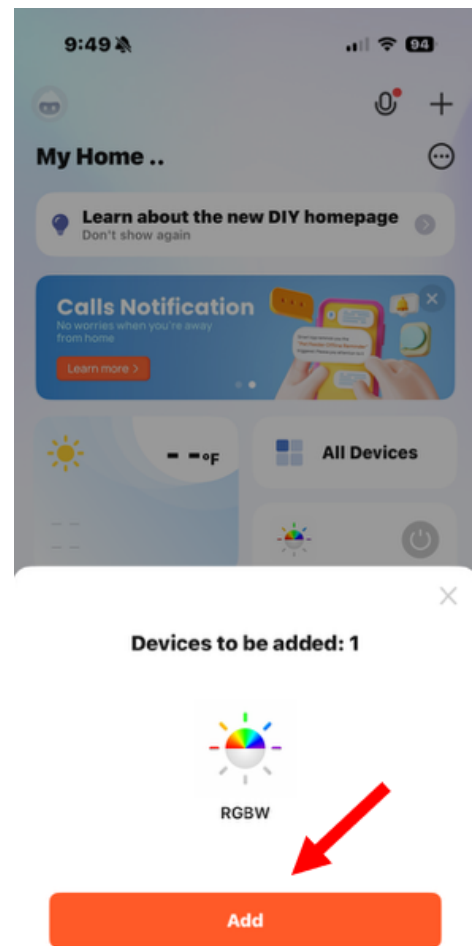


Figure 2.6 - Add Device

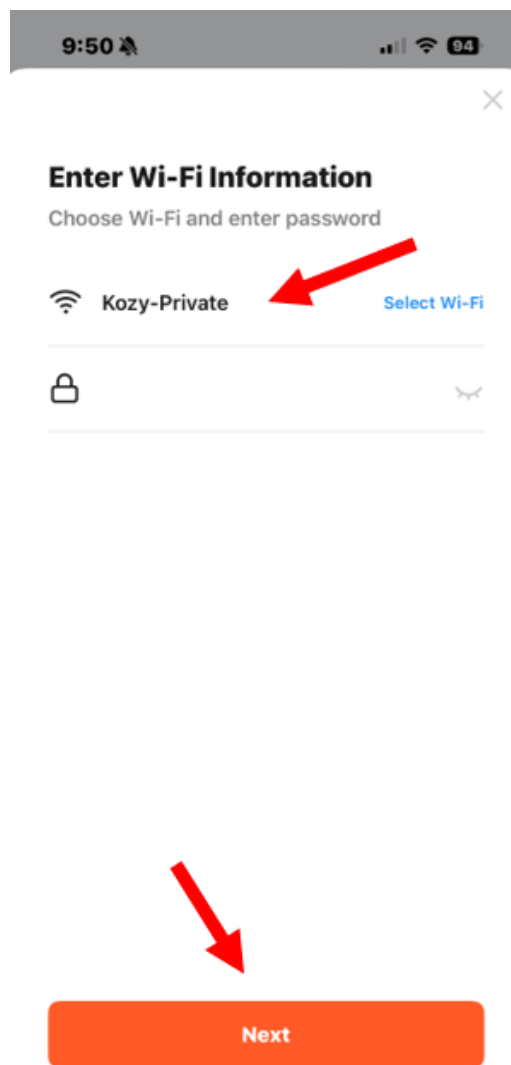


Figure 2.7 - Wi-Fi

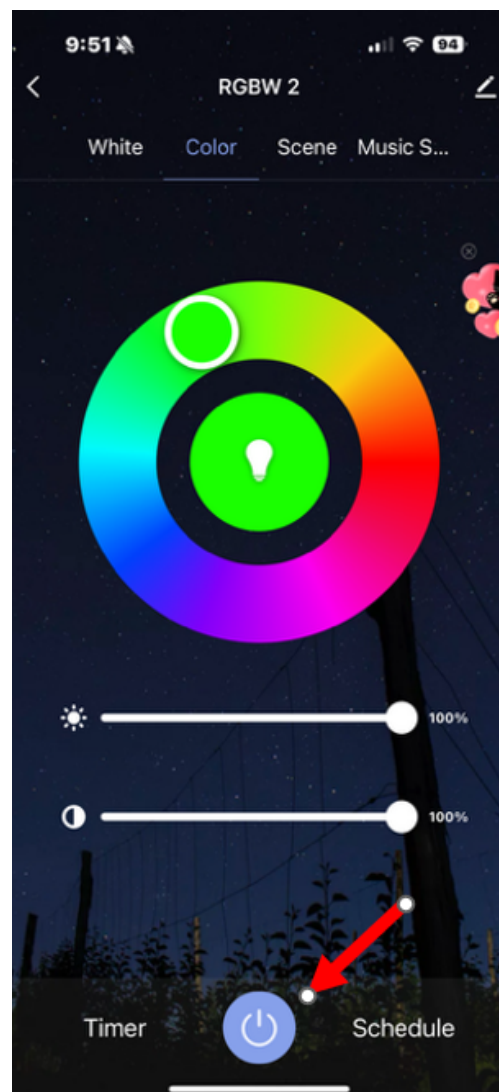


Figure 2.8 - Device Screen

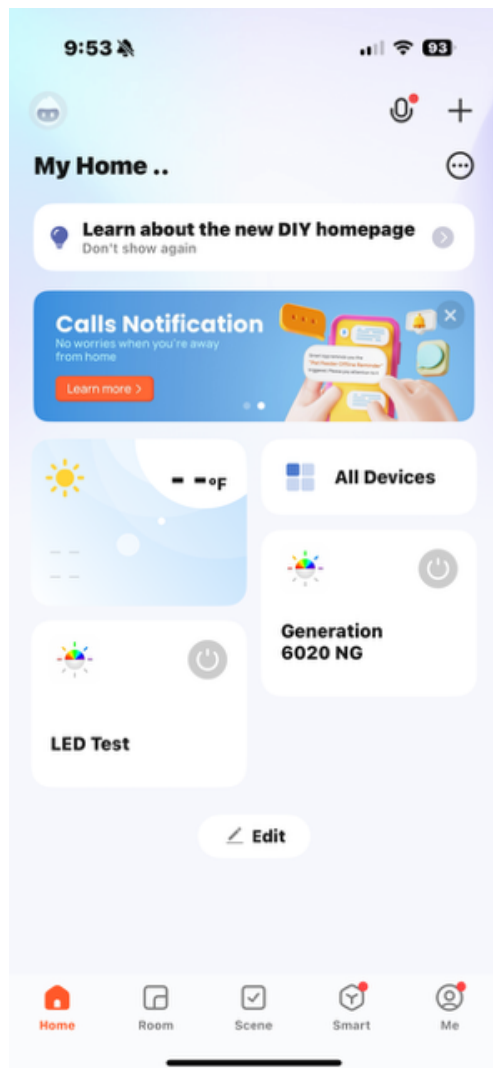


Figure 2.9 - Device Added

## 3.0 Tuya Smart App Features

### 3.1 App Features - LED Operation

- Your next screen should be the home screen. When you follow the instructions to place the LED controller in pairing mode you will see a pop up come up inside the app when in the home screen to add the RGBW system. Once added you will see a screen that looks like Figure 3.1.

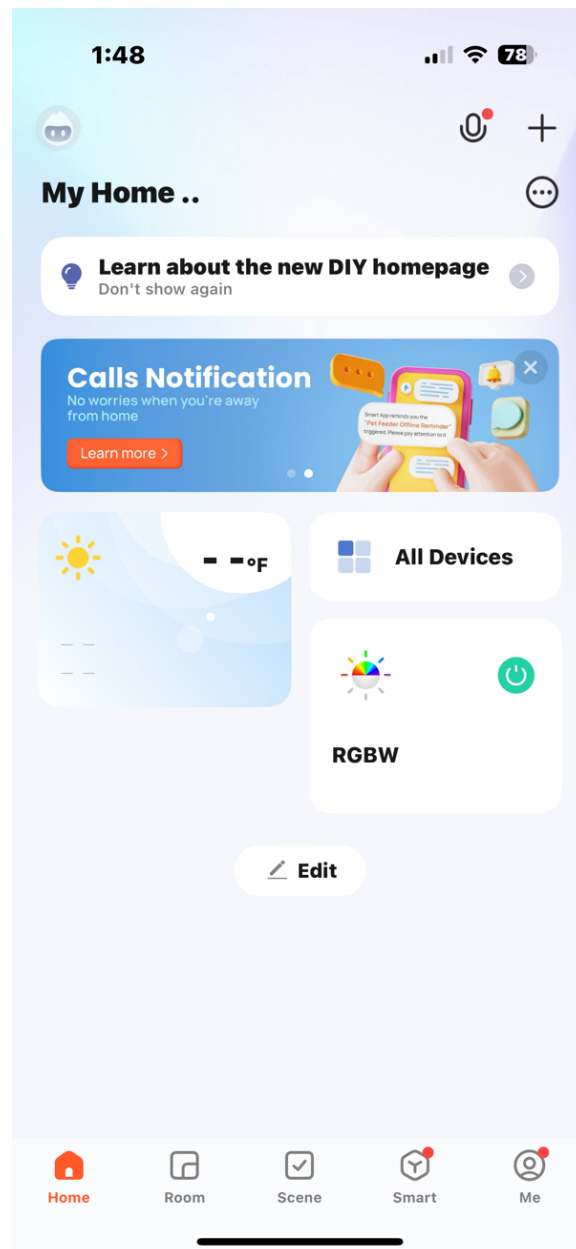


Figure 3.1 - Home Screen

- Figure 3.2 shows the RGBW system when it is turned off. The button on the bottom of the screen is the power button. When you select the power button and turn on the RGBW system you will see what is shown in Figure 3.3.
- Along the top of the screen now you will see (4) tabs where you can cycle through the different modes of the LED system. You have white, color, scene, and music. See Figure 3.3.



Figure 3.2 - On / Off Button

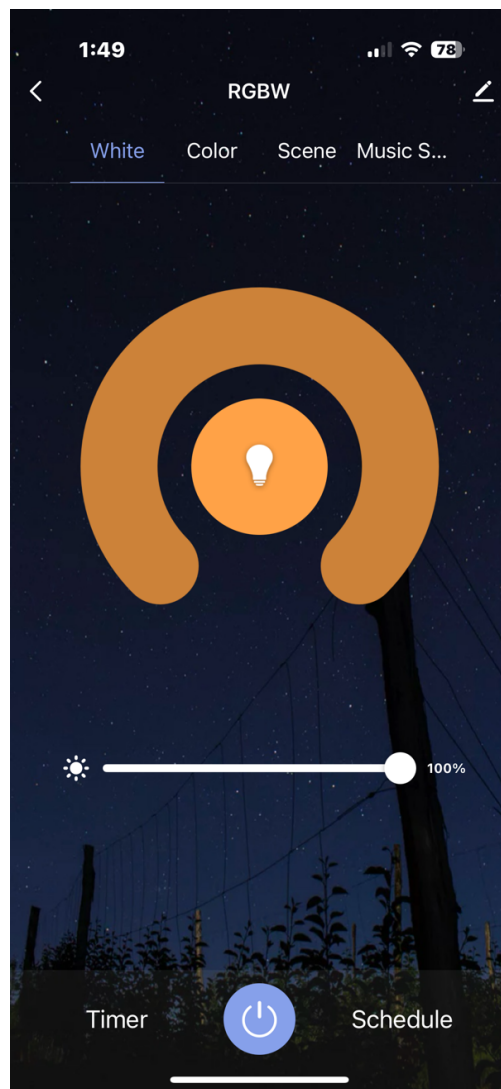


Figure 3.3 - Modes in App

- Figure 3.4 shows the color mode. It has a color wheel where you select the color you want the LEDs to be. Under the color wheel there are two slider bars. The top slider bars adjusts the intensity of the color you select. The bottom slider adjusts the white brightness. Note: you will want to keep this bottom slider bar at 100% to maximize the color you selected.
- Figure 3.5 shows the Scene mode. Each scene shows a picture and the LEDs of the fireplace will change to the different colors of the image shown.

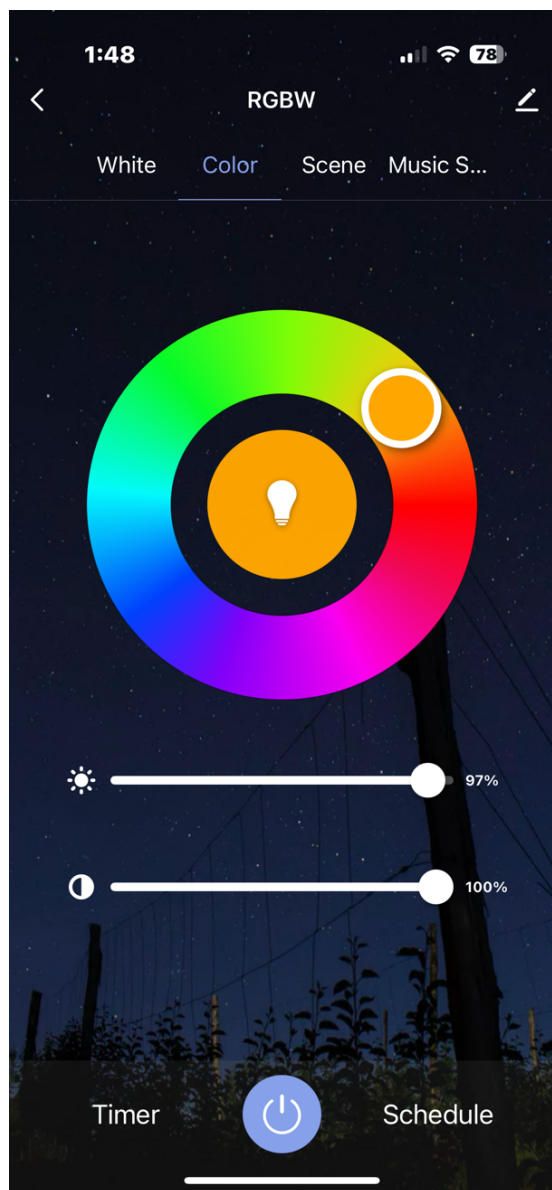


Figure 3.4 - Color Mode

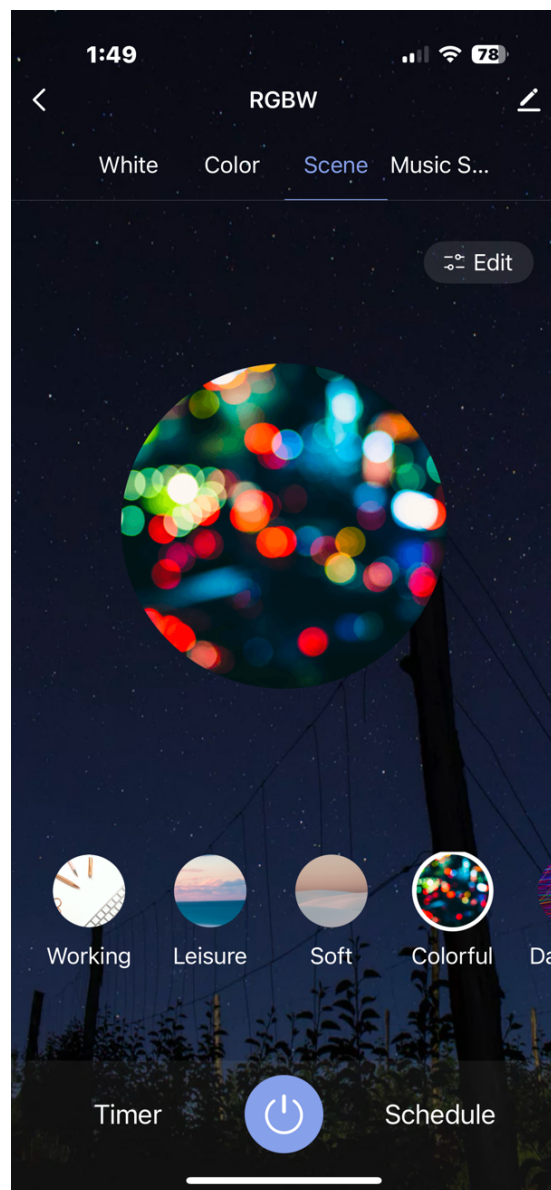
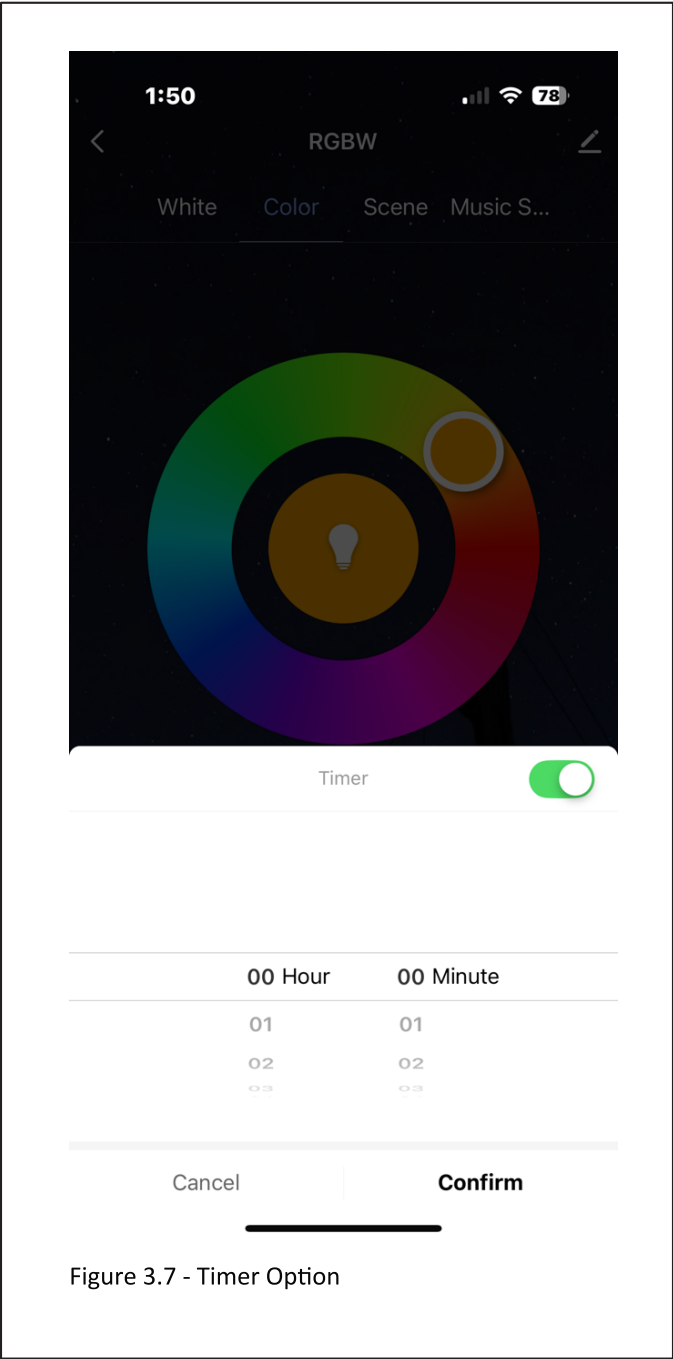
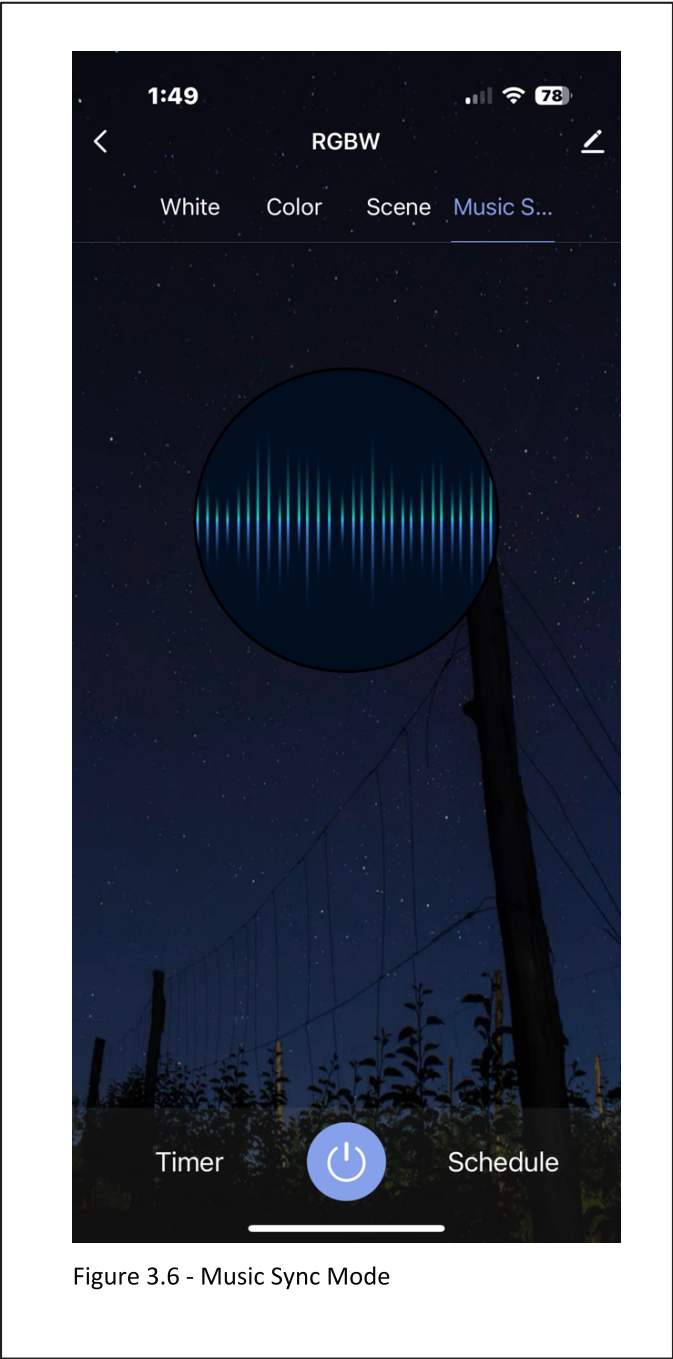
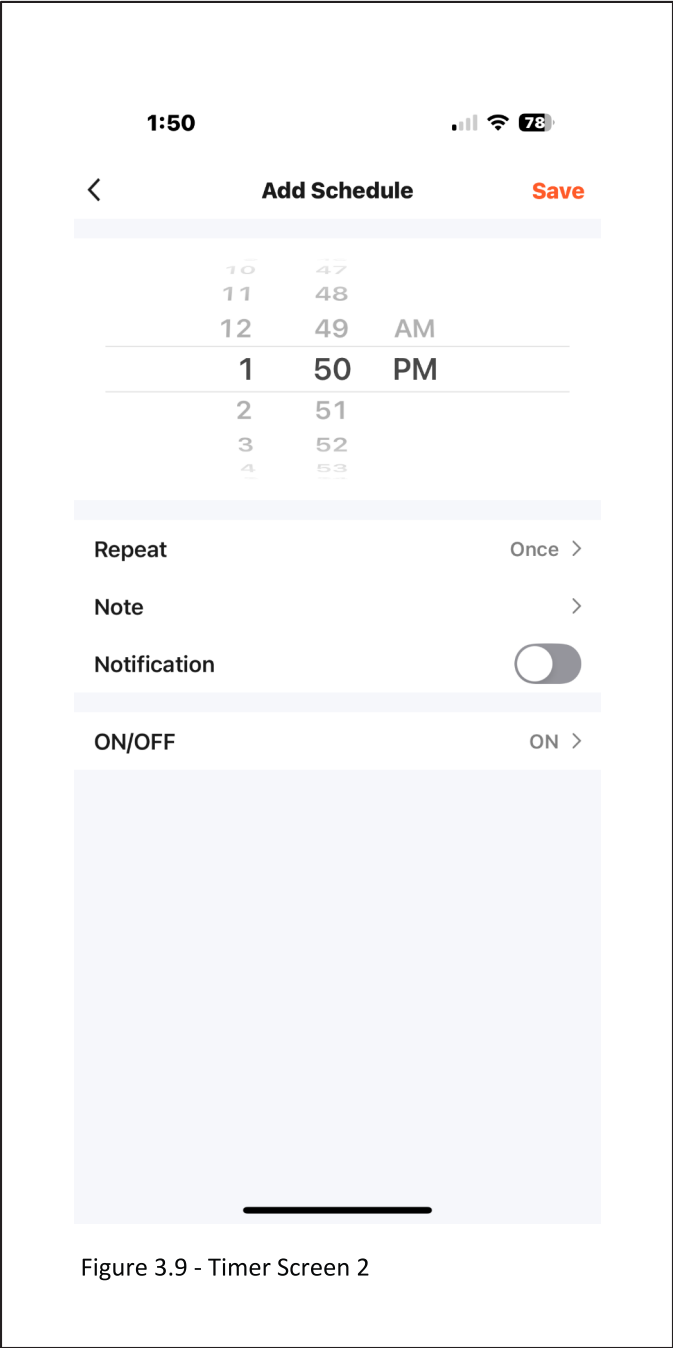
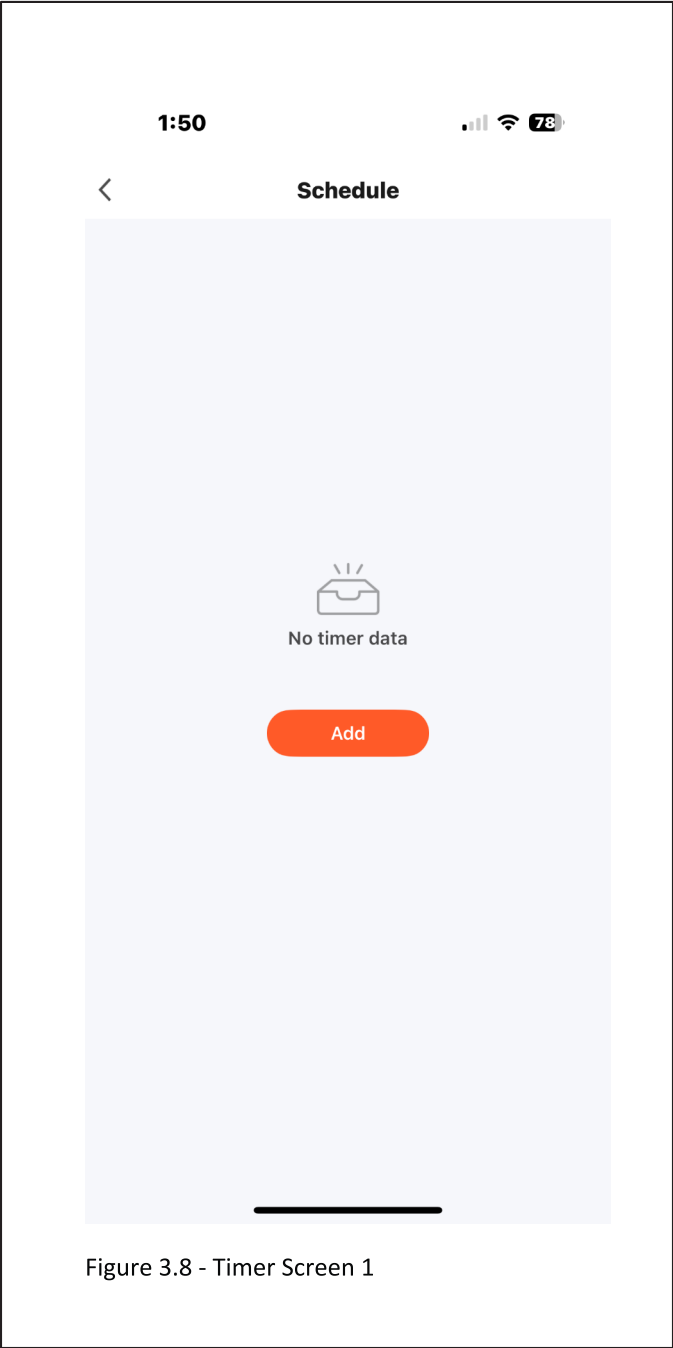


Figure 3.5 - Scene Mode

- Figure 3.6 shows the Music Sync Mode. When you have music playing the app will use the microphone in your phone to adjust the lights to the music or audio it picks up.
- Figure 3.7 shows what the app looks like when you schedule a timer option. At the bottom of the app you will see the Timer option. You have this timer option regardless of the mode you are in. Click the timer option and set the timer for the duration you want.



- Figure 3.8 and 3.9 shows what the app will look like when setting up a schedule to run the LEDs. Regardless of the mode you are in the schedule option will appear on the bottom of the screen. When you select the “Schedule Option” you will see Figure 3.9. Select “Add” and you will see Figure 3.10. Select the features you want for your timer and then save those options.



### 3.2 How to Change the Device Name

- Click on the device from the home screen. See Figure 3.10.
- Click the device setting “pencil” icon in the corner of the top right. See Figure 3.11.

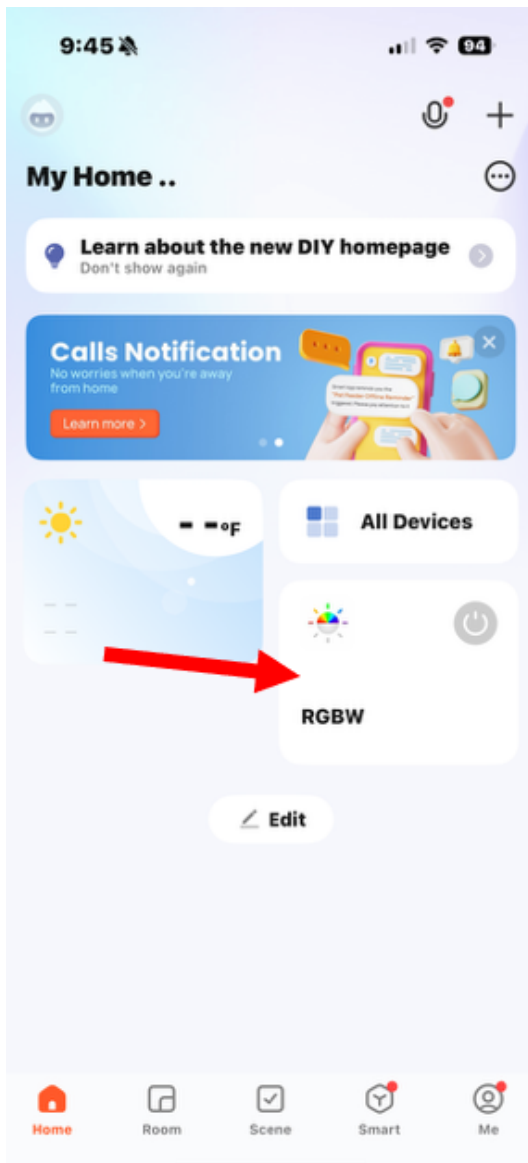
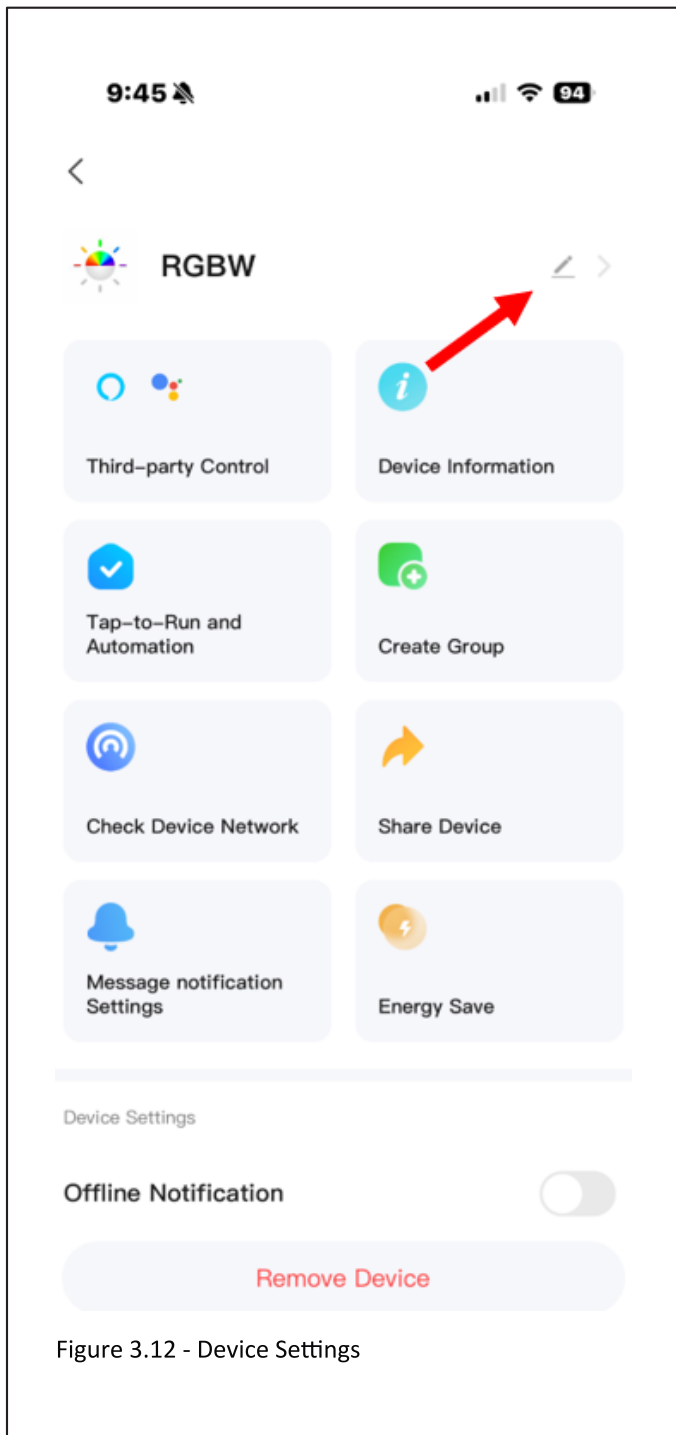


Figure 3.10 - App Home Screen



Figure 3.11 - Device Screen

- Click on the “pencil” icon in the top right corner of the screen. This will take you to the screen to change the name of the device. See Figure 3.12.
- Figure 3.13 shows the screen where to select the name.



- Figure 3.14 shows where you change the name. Click “confirm” when you are done.
- Figure 3.15 show the app home screen when the name change is completed.

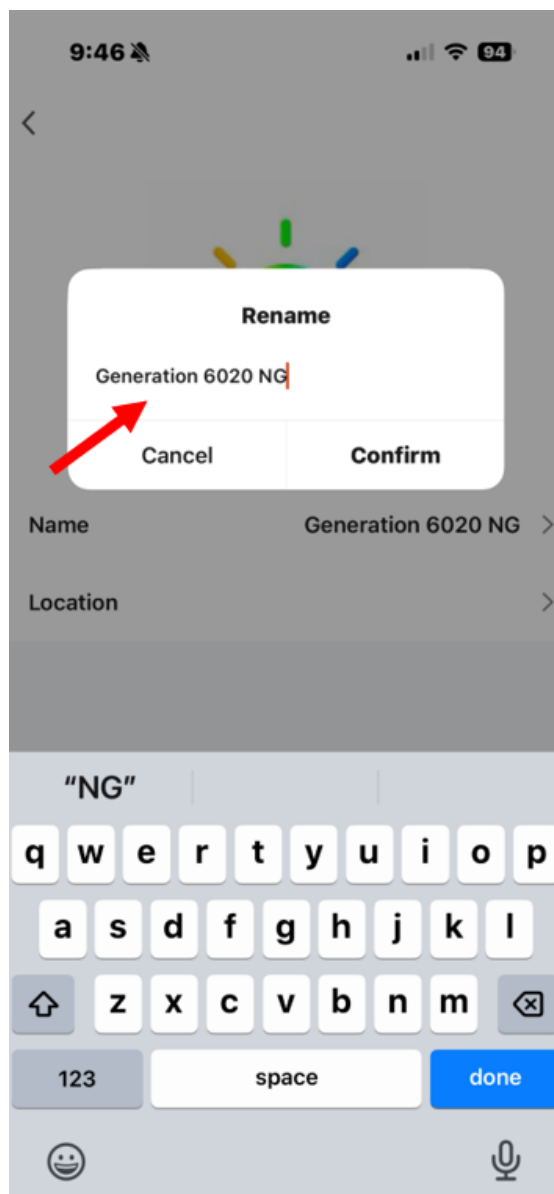


Figure 3.14 - Name Change

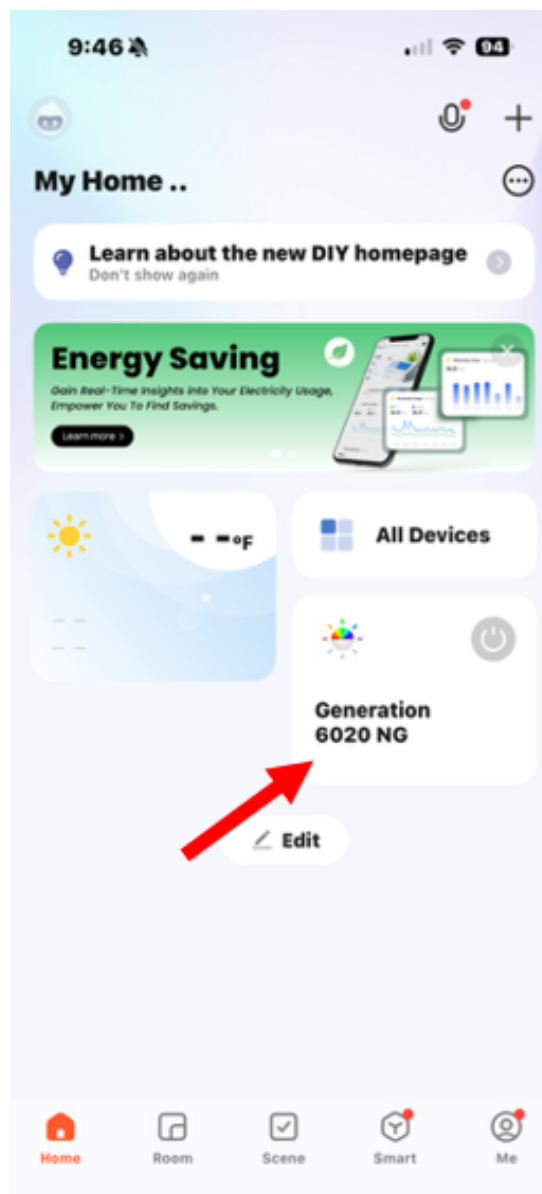


Figure 3.15 - Final App Home Screen

### 3.3 How to Share a Device

This section will show you how to share the device to an additional person. This is how multiple individuals can operate the LED system.

- Go to the home screen of the app and select the device. Figure 3.16.
- Select the “Pencil” in the top right of the device screen to access the device settings. Figure 3.17.

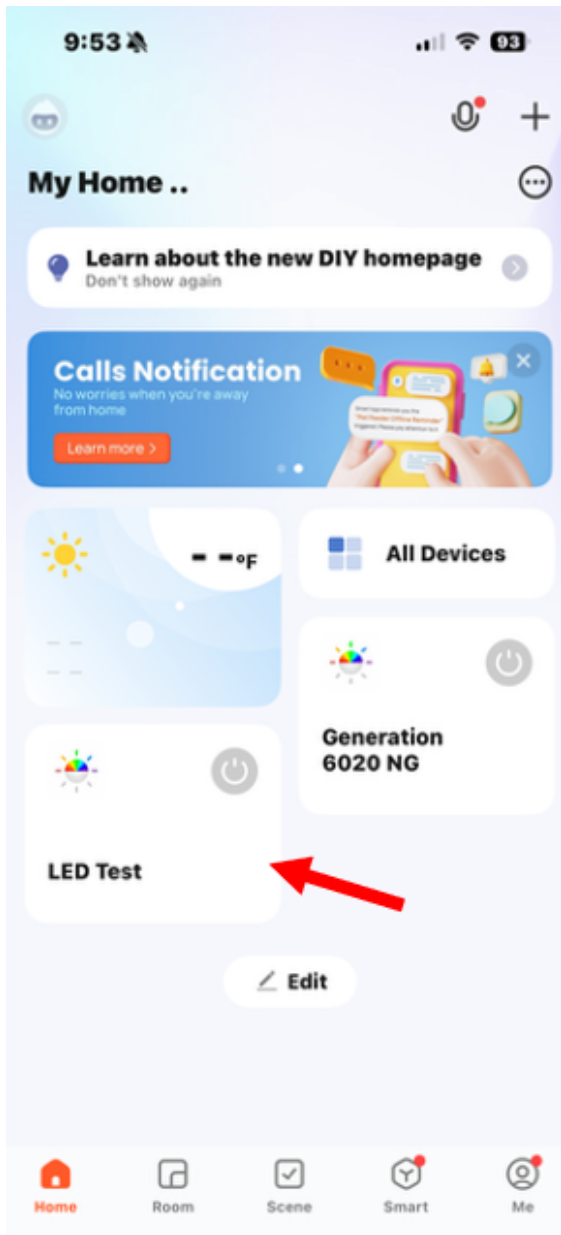
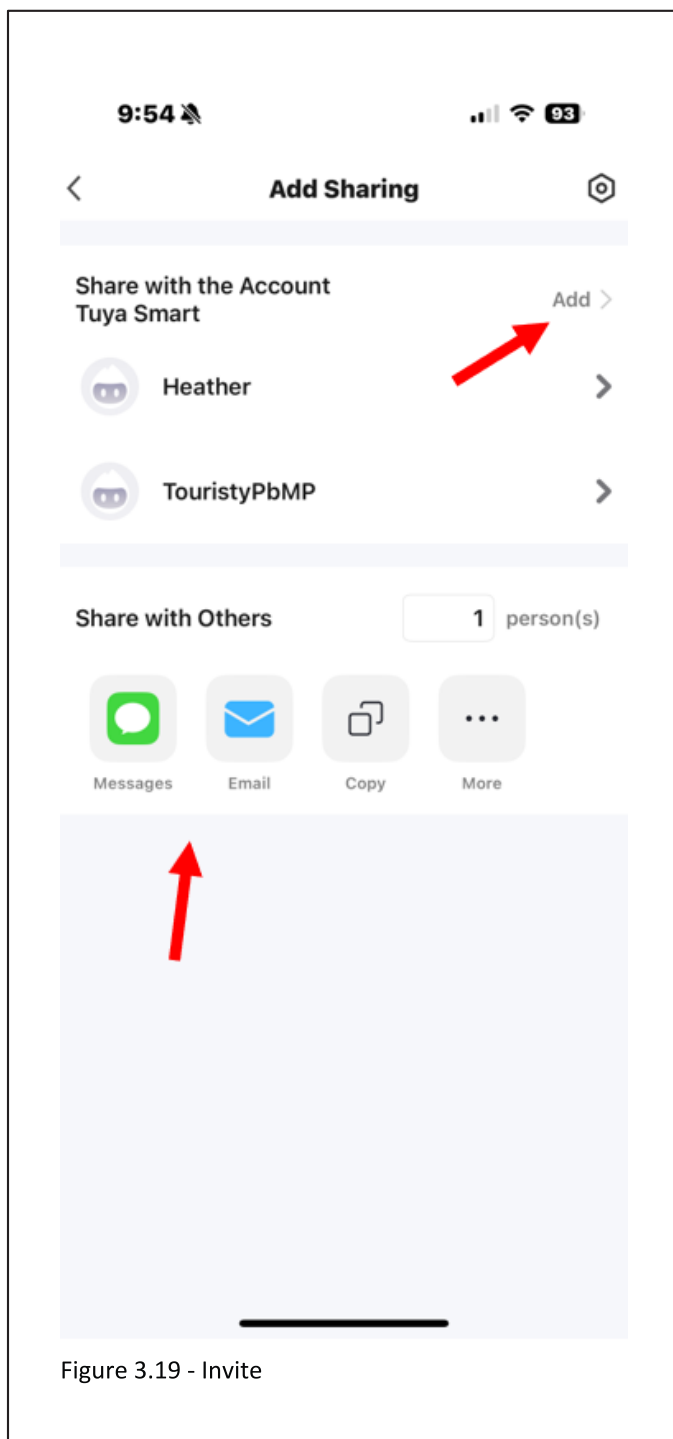
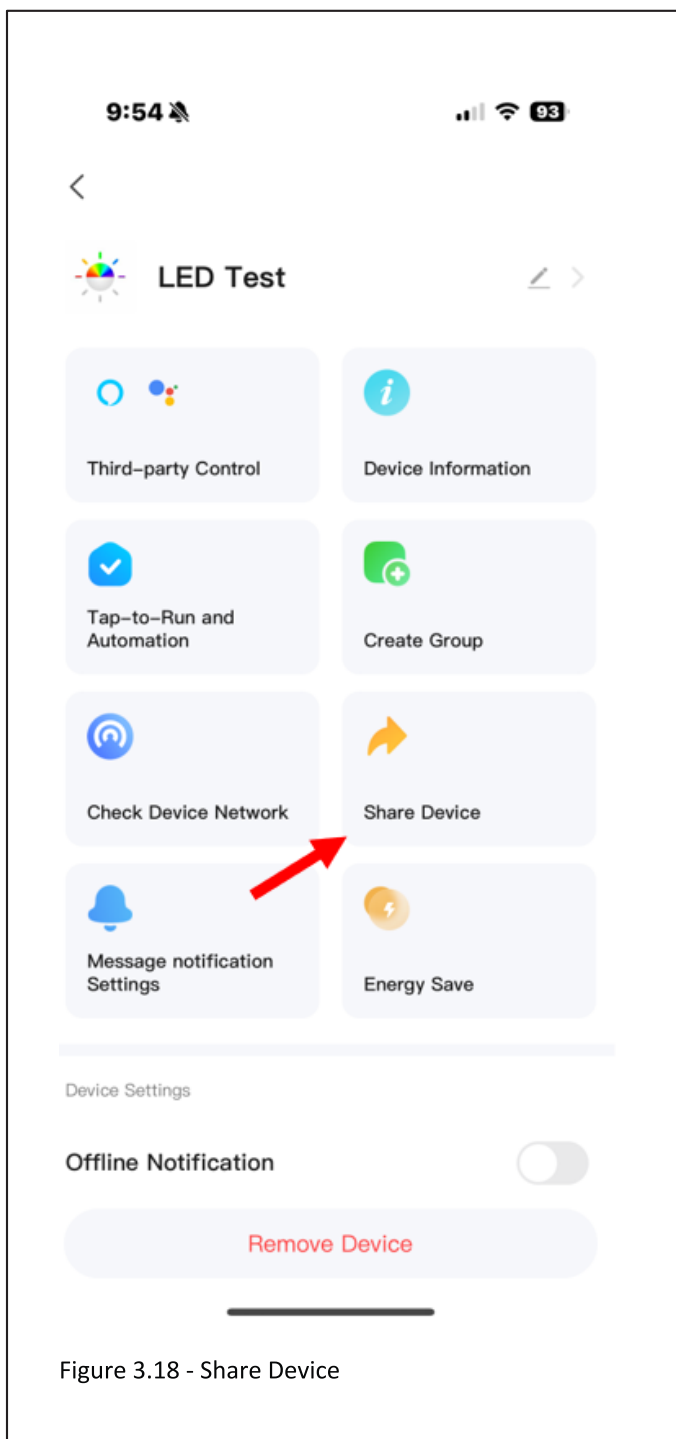


Figure 3.16 - App Home Screen



Figure 3.17 - Device Home Screen

- Click the “Share Device” button on the screen. Figure 3.18.
- This screen shows us existing individuals with Tuya accounts that you have shared devices with. You can click the “add” button in the top right to add an individual with an existing Tuya account. You can click the messages or email buttons down at the bottom where you can send an invite to an individual that does not have a Tuya account or if you do not know the other individual's Tuya account information. See Figure 3.19.

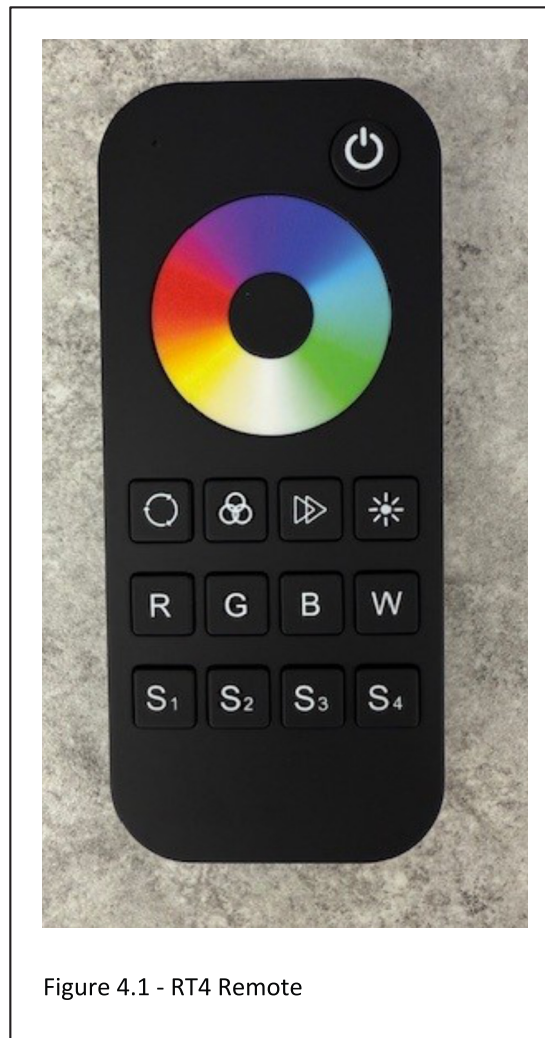


## 4.0 Remote Control

### 4.1 Remote Control Overview

Note: If you want a “white” color option we recommend using the “W” direct color button. If you use the white section of the color wheel which blends together separate color LEDs to create a white light. When using the white color wheel option you could still press the direct color “W” button which turns on a separate set of white LEDs. In this scenario both sets of LEDs are on and would potentially draw too much power from the power supply. The power supply could shut down via an internal mechanism.

| Table 4.1 - Remote Control Overview                                                 |                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Button                                                                              | Description                                                                                                                                                                                                     |
|    | Located in the top right.                                                                                                                                                                                       |
|    | Touch to adjust static RGB color.                                                                                                                                                                               |
|   | Static Color - Press the button to cycle between 24 levels of color. You can press and hold the button to cycle through colors in a continuous manner. Let go of the button to stop on the color that you want. |
|  | Dynamic Mode - Press the button quickly to cycle between the modes                                                                                                                                              |
|  | Dynamic Adjustment - Press to adjust the speed of the selected mode.<br>Static Color - Press to adjust selected color to white saturation.                                                                      |
|  | Brightness - Press the button to adjust 10 levels of color brightness.                                                                                                                                          |
|  | Direct Color Buttons - R is Red, G is Green, B is Blue, and W is White.                                                                                                                                         |
|  | S Buttons. Press and hold one of the buttons for 2 seconds to save the current color. The LED indicator on the top left of the remote will display green when the color is saved.                               |



---

## 4.2 Dynamic Mode List

The remote control has 10 different modes you can circulate in between Press the mode bottom to switch in between modes listed below.

- RGB Jump
- 6 Color Fade
- 6 Color Jump
- 6 Color Smooth
- Yellow, Cyan, Purple Smooth
- RGB Fade
- Red Fade
- Green Fade
- Blue Fade
- White Fade

## 5.0 Troubleshooting

| Issue                                                                | Cause                                                                        | Solution                                                                                                                              |
|----------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <b>LED Lights will not turn on</b>                                   | LED remote control batteries low                                             | Replace batteries in remote.                                                                                                          |
|                                                                      | No communication between the remote control and the LED Driver               | Ensure power is present to fireplace and LED driver.                                                                                  |
|                                                                      |                                                                              | Reprogram the remote to the LED driver.                                                                                               |
|                                                                      | Dip Switch has incorrect settings                                            | Refer to Section 2.2 for correct Dip Switch Settings.                                                                                 |
| <b>LED Dynamic Mode freezes on a color</b>                           | Glitch on LED Controller                                                     | Cycle through the Dynamic Modes until you are back on the desired mode.                                                               |
| <b>LED color does not match the color wheel on the remote or app</b> | Glitch on LED Controller                                                     | Turn off LEDs via remote.                                                                                                             |
|                                                                      |                                                                              | Close the App and relaunch the App.                                                                                                   |
|                                                                      |                                                                              | Turn power off to the fireplace via shutting off a breaker or unplug the LED controller from the electrical box inside the fireplace. |
| <b>Tuya App Crashes / Features not working inside of App</b>         | App Issue                                                                    | Contact Tuya Smart Inc.                                                                                                               |
| <b>Cannot add LED Controller to Wi-Fi Network</b>                    | Existing network information on LED controller                               | Erase existing settings. See Section 2.4.                                                                                             |
|                                                                      | Phone not connected to the Wi-Fi network that you want the LED controller on | Connect phone to Wi-Fi network.                                                                                                       |

