

### Controller

### Touch button.

- -Tap to switch between onboard presets.
- -Hold for 3s to turn off the lights, tap again to turn on.
- -Hold for over 6s to reset controller to factory mode.

### LED indicator.

- When indicator fades in&out with 50% brightness: It means controller is ON but not connected to any phone.

- When is solid with 100% brightness: It means it's connected to the app.

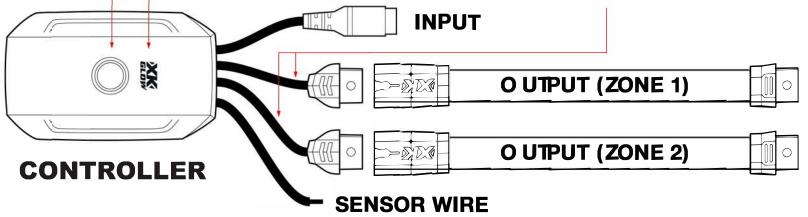


Download app "**XKchrome**"

### Multi zone control:

Each controller has multiple output zones. Those zones can be controlled independently via the app.

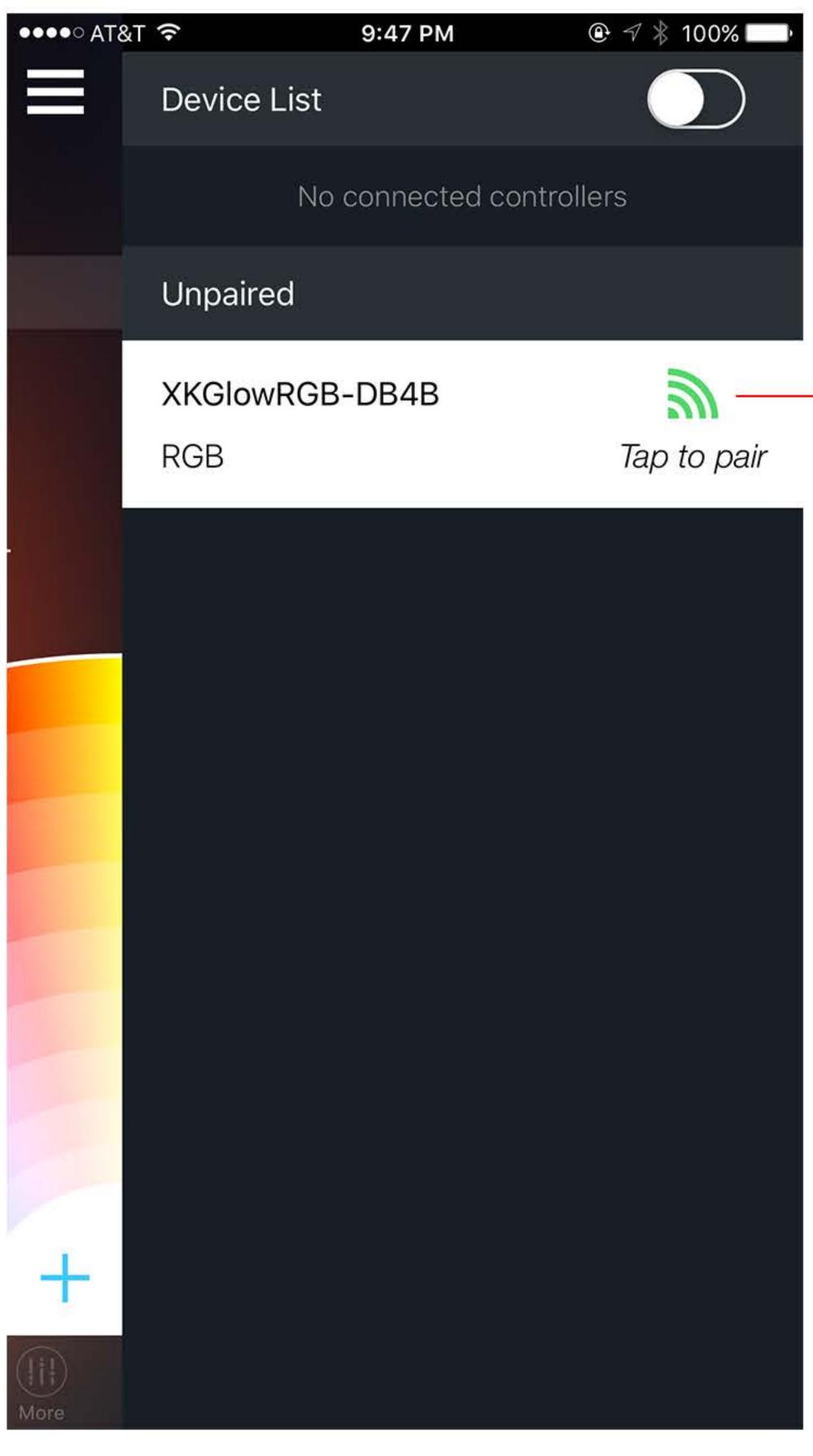
And multiple controllers can be connected to the app at the same time.



### Sensor Wire:

- It's usually connected to certain wire in the vehicle, such as brake wire, turn signal wire and etc.
- It's an optional function. user can choose not to use it.

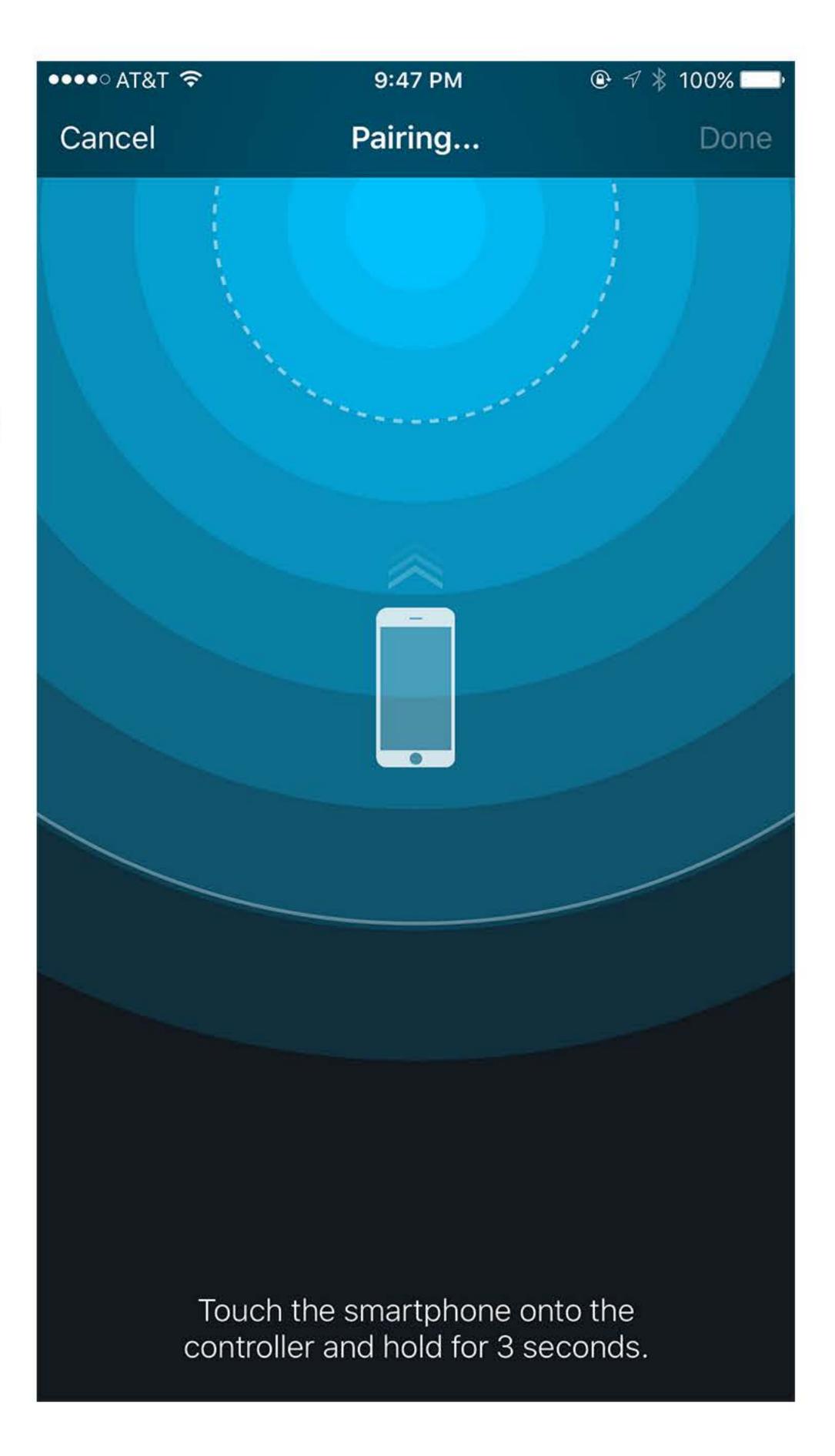
- When the sensor senses attched wire is getting power, it triggers the controller. User can define what action will the lights do (Such as turn to certain color, or strobe and etc) when this wire is triggered.



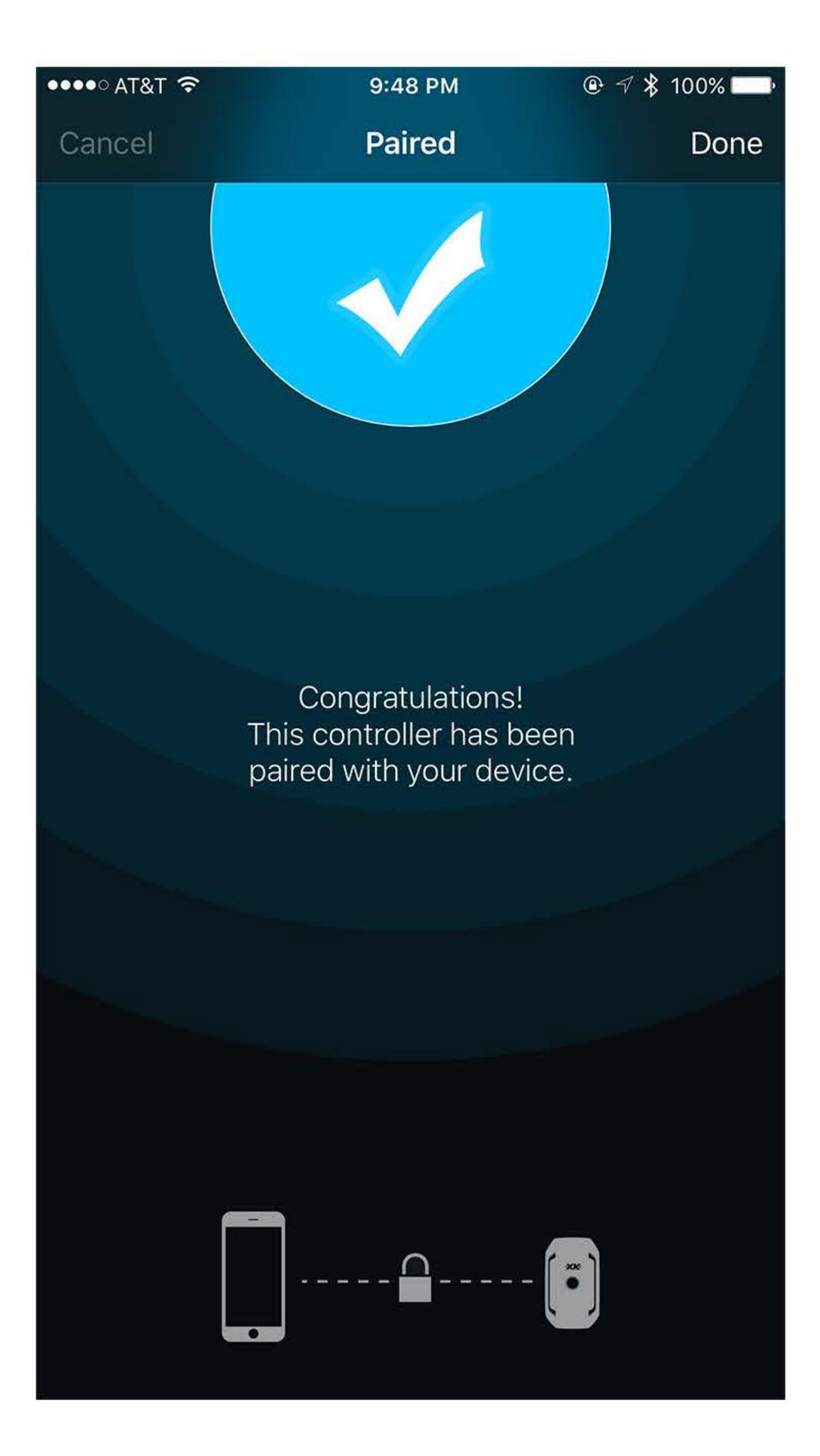


**Device Setting** 

# How to pair the controller

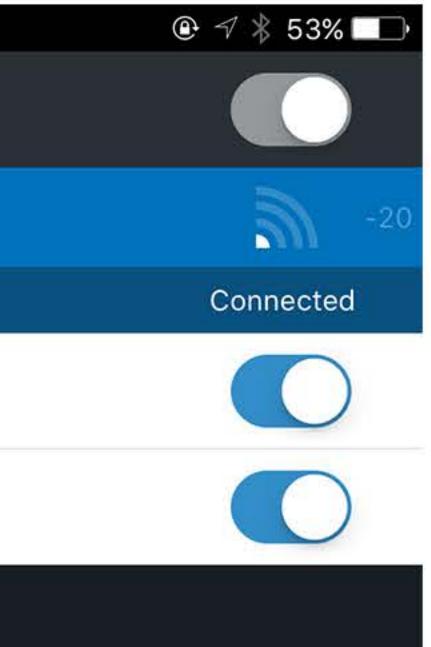






## Once the controller is paired, it will appear on the top of device list

•••• AT8	মা হ	9:05 PM
	Device List	
	Virtu	al-RGB-F219
	RGB	
	1	Zone 1
	2	Zone 2



## 2- Group

To control multiple zones at the same time, drag one zone towards the other zone (or an existed zone). The group is presented with a double-circle round marker as shown.

## **3- Ungroup**

Tap the group marker to expand all zones in that group, drag a zone marker out of the group.

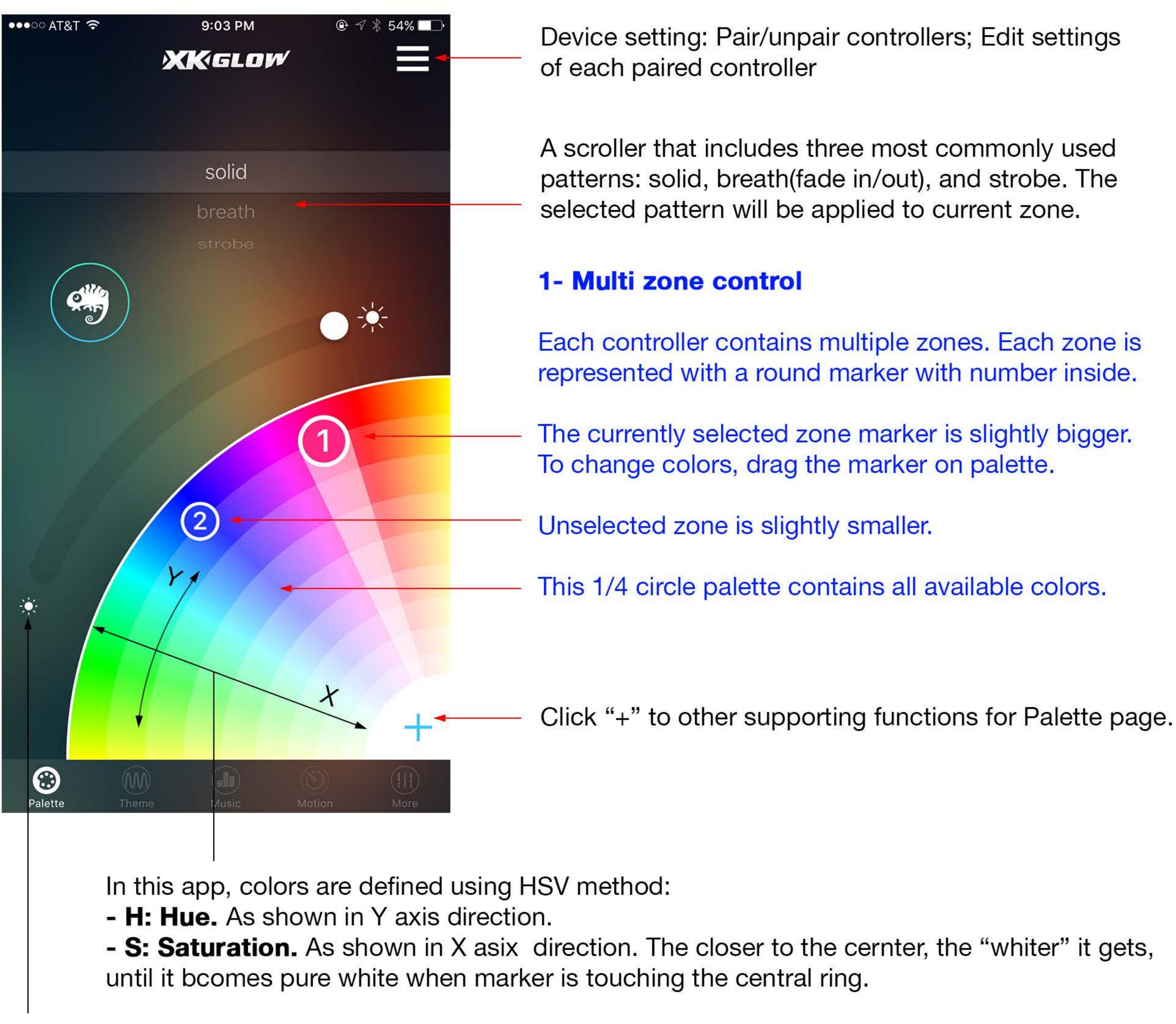




## Palette

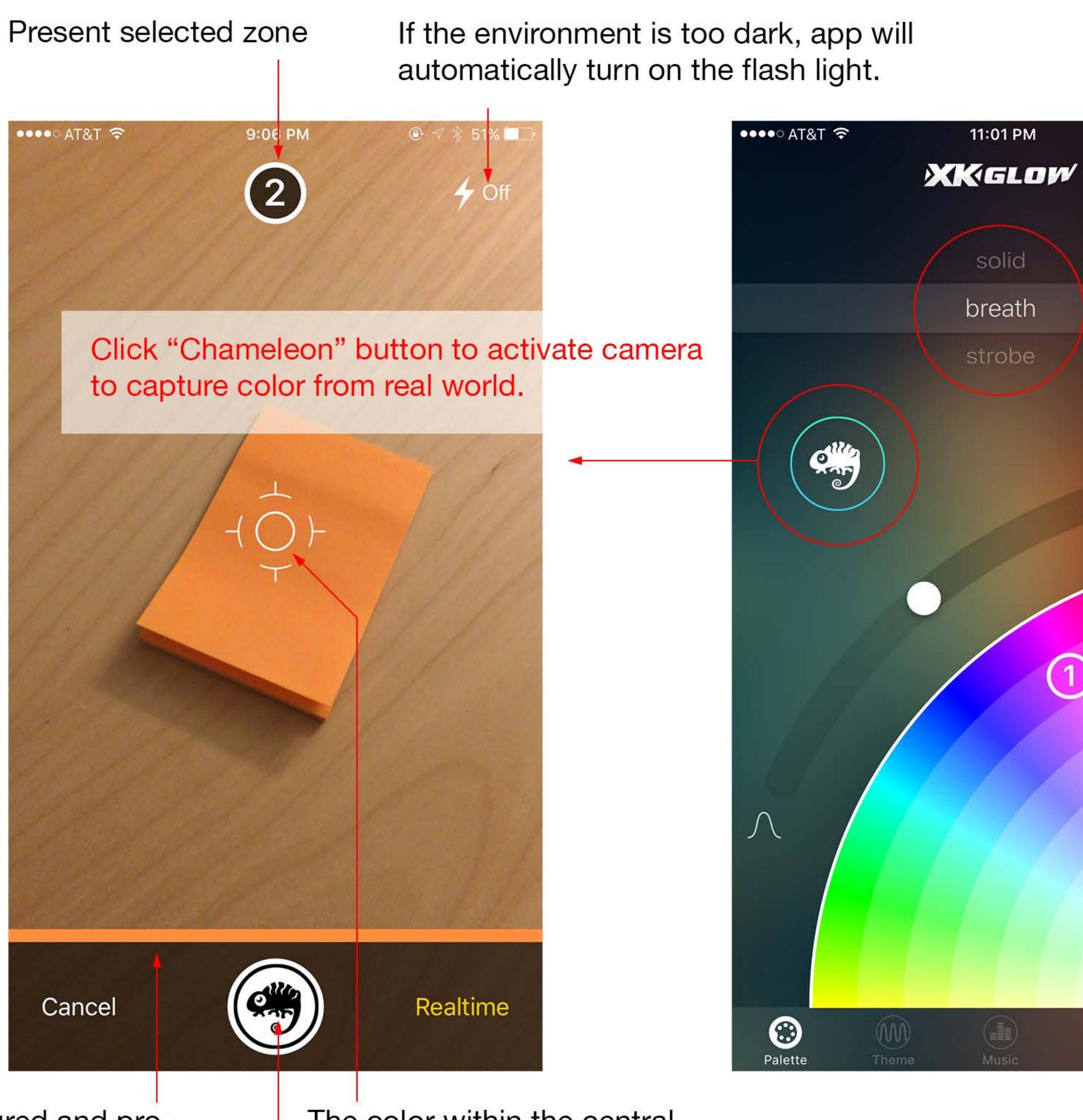
This page is used to to select a color and apply it to each zone. In addition, user can change a few settings associate with the color.





- V: Value. (Brightness) The brightness is adjusted by this arc-shaped scrolling bar.

- S: Saturation. As shown in X asix direction. The closer to the cernter, the "whiter" it gets,



The captured and processed color is displayed at the bottom bar in realtime.

The color within the central circle will be captured.

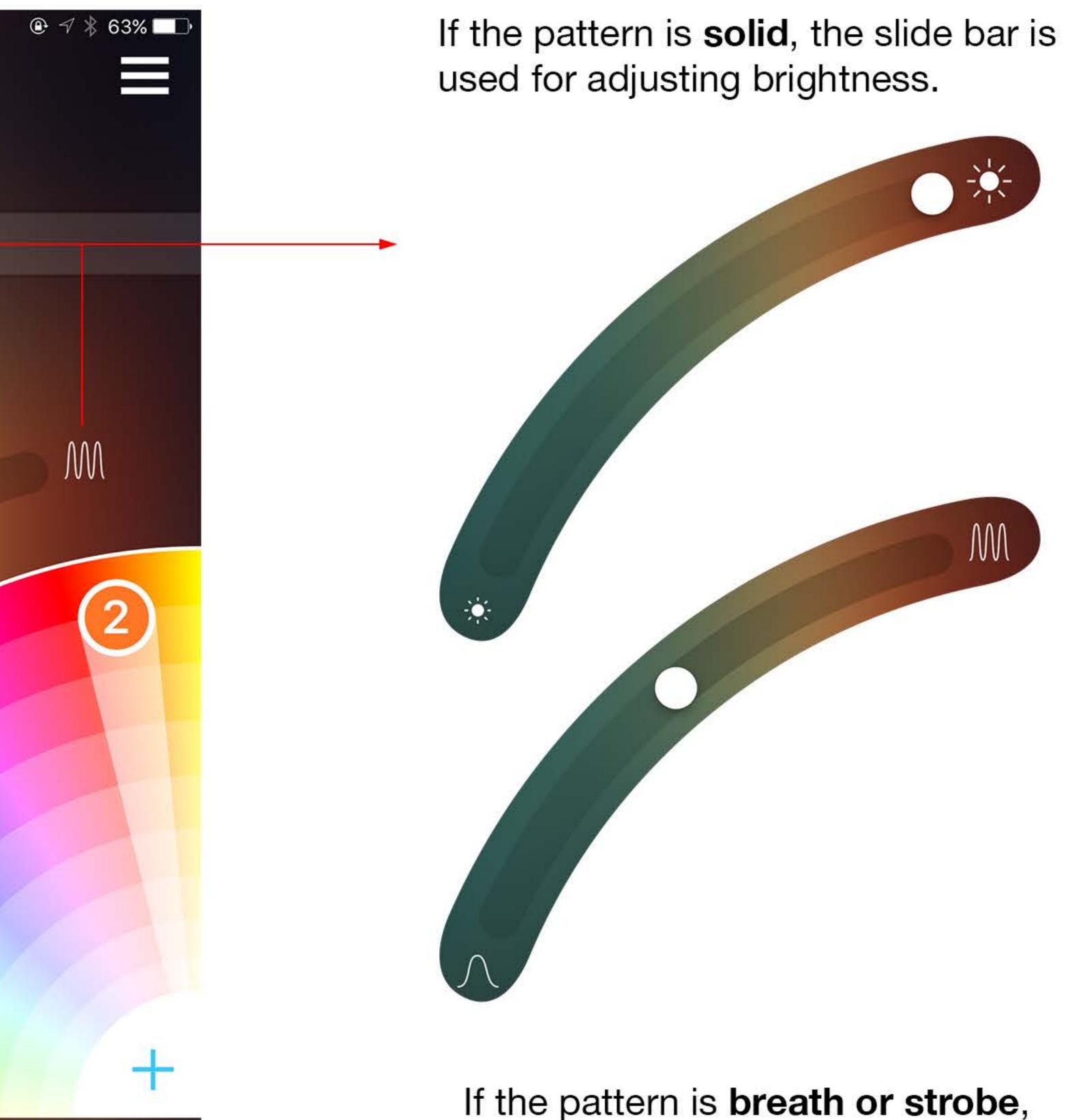
If user likes the captured color, tap the chameleon button. It will go back to the Palette page and the zone marker will move to the captured color. This color will stay on the selected zone.



As you can see. The interface in this app is designed for single hand use. Most buttons are within the range of the thumb.

Motion

In the future we will also design "left hand" mode that mirrored the current "right-handed" design.

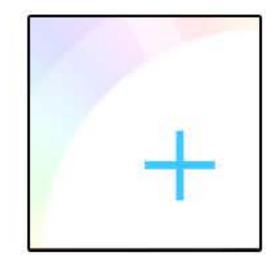


the slide bar is used for adjusting the pattern changing speed.

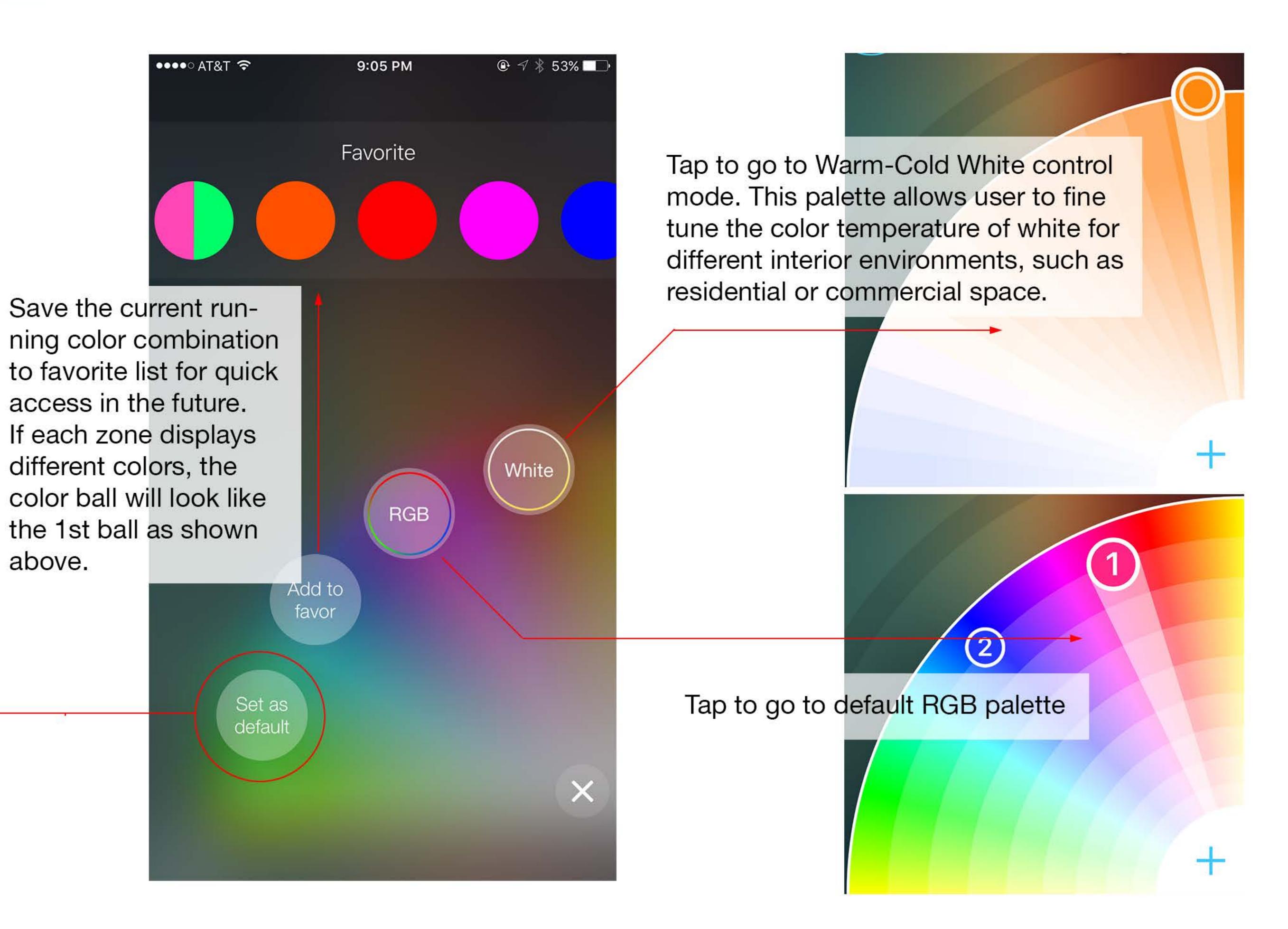


CLick to save the current running theme as the startup default theme when controller is powered on. This allows user to perform certain simple functions without using the app.





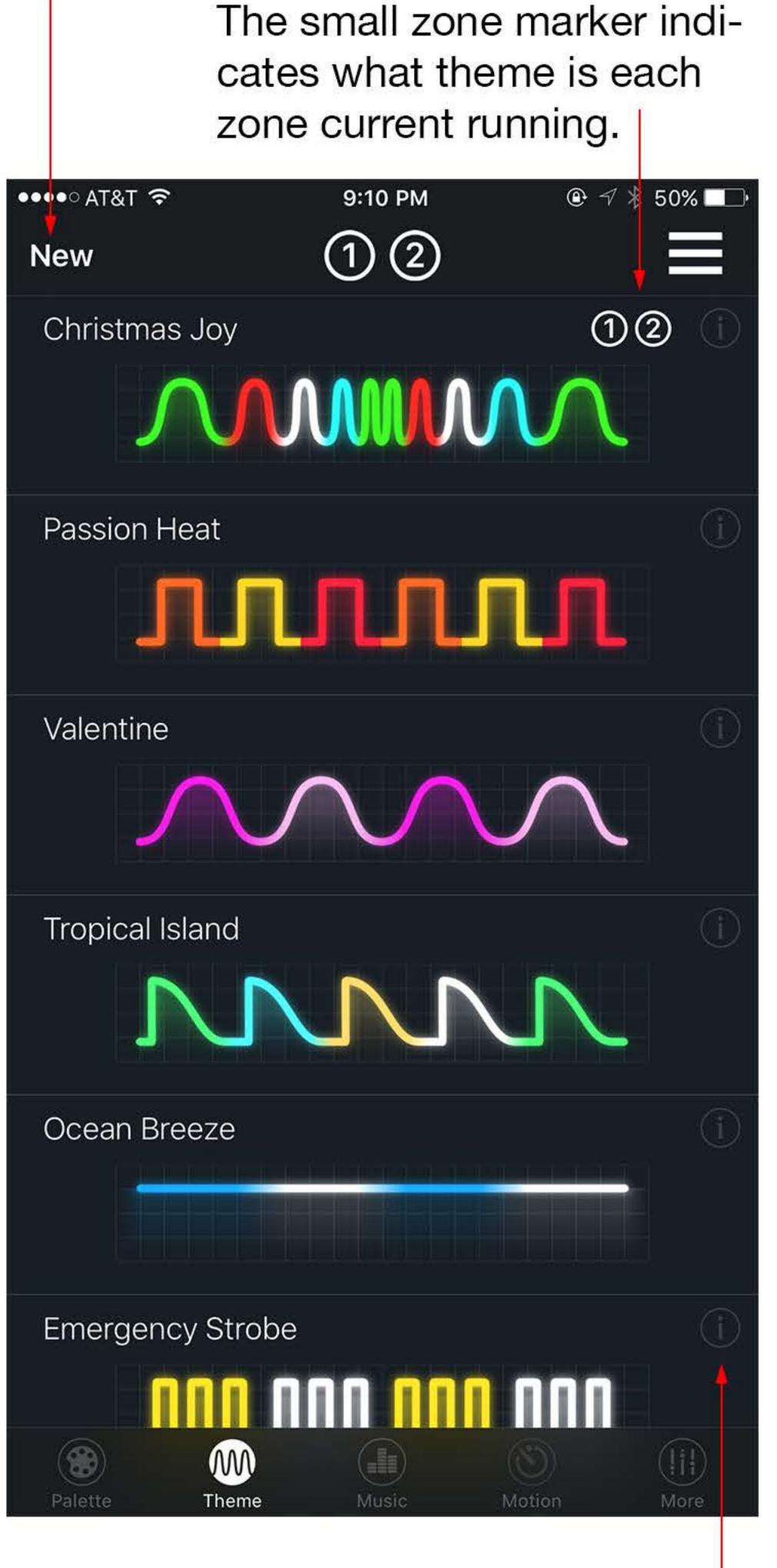
Click the "+" button at the rig supporting page.



## Click the "+" button at the right bottom corner to access the

Theme page allows user to play more complicated changing patterns. It comes with 15 presets, and allows user to edit them or creat new ones.

## Create New Theme



Click to edit existing theme (As the long screen show on the right)

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## Theme

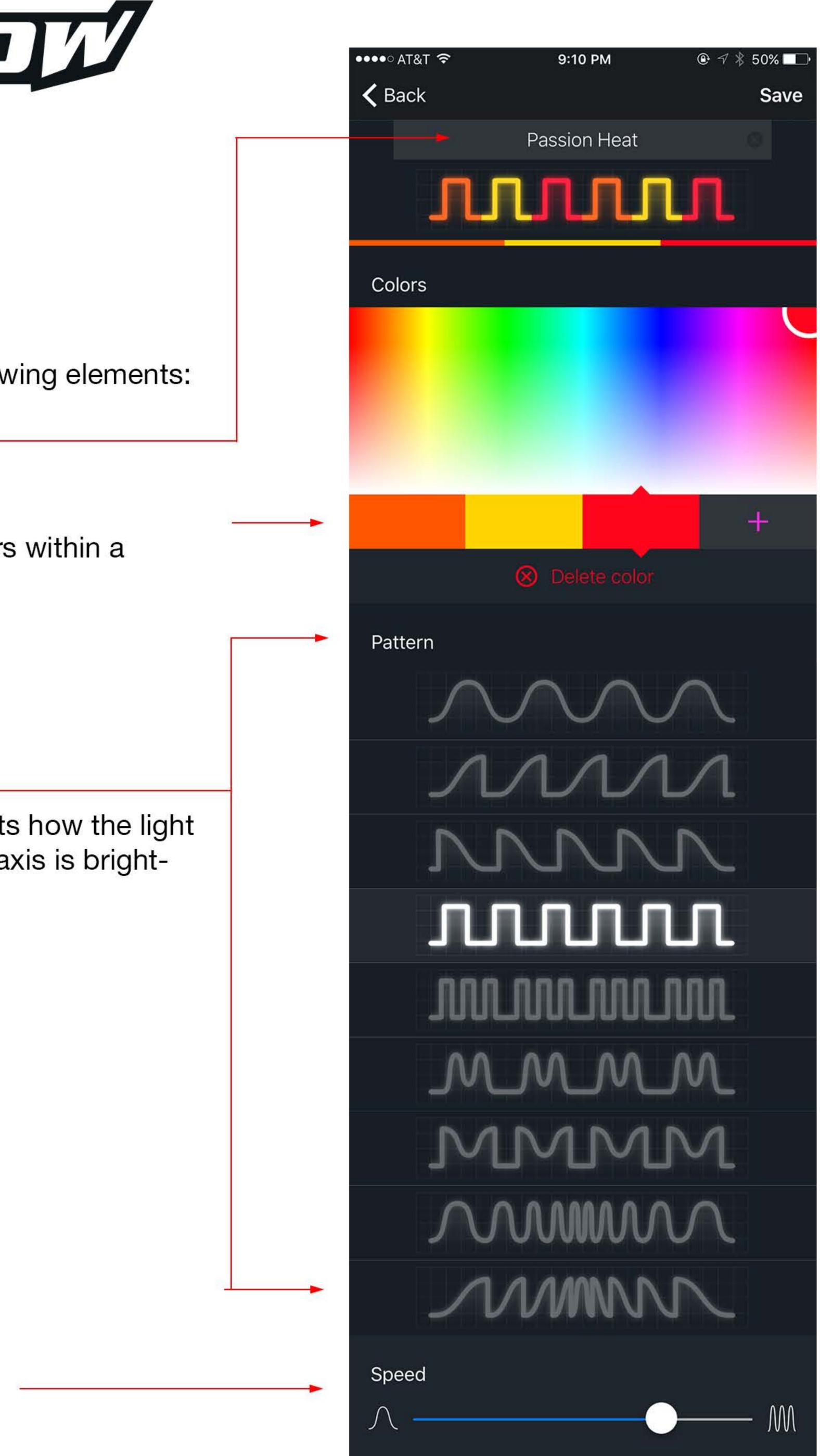
## Each theme is defined by following elements:

1-Name

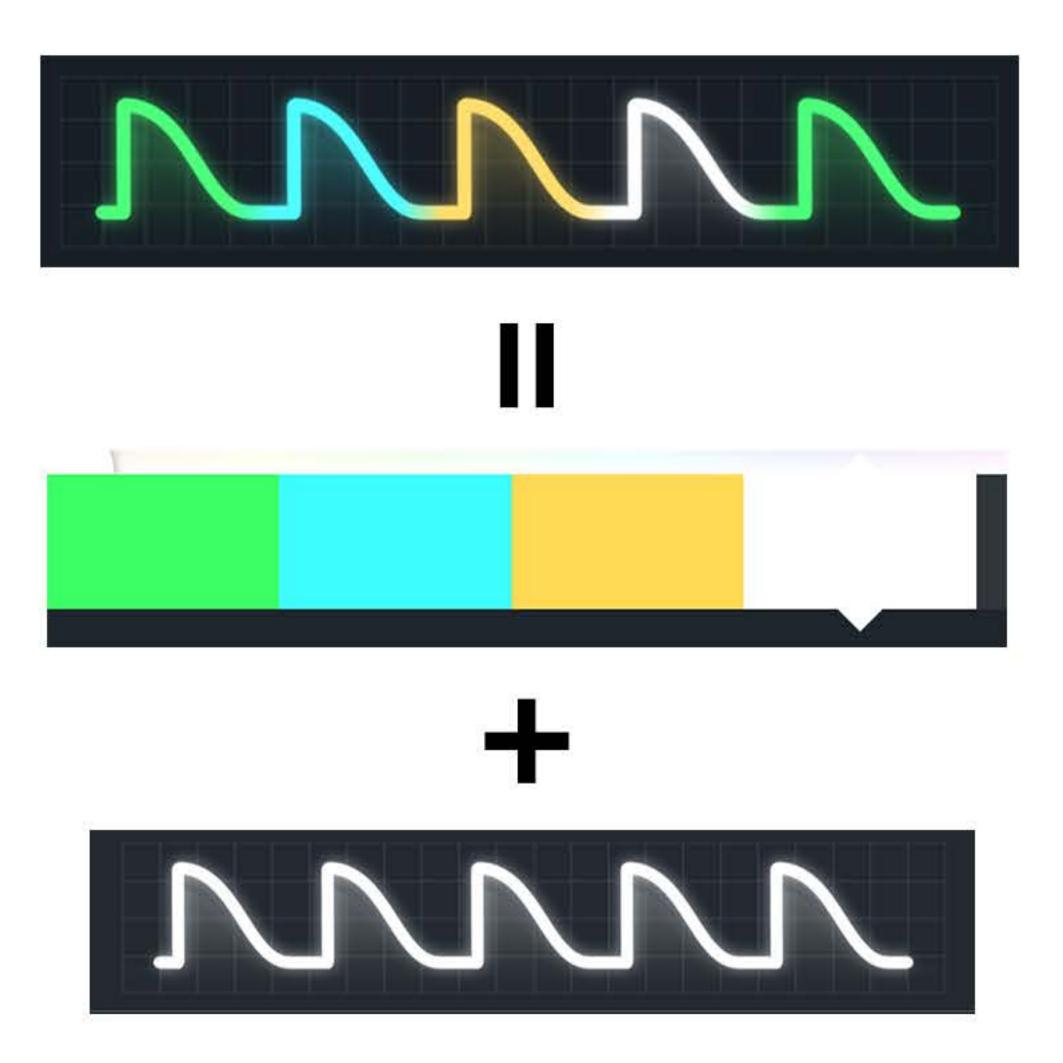
2- Colors User can assign up to 10 colors within a group.

3- Pattern — These wave patterns represents how the light changes, the X axis is time, Y axis is brightness of the light.

4- Speed How fast the pattern changes.



## Each theme is represented with a diagram.

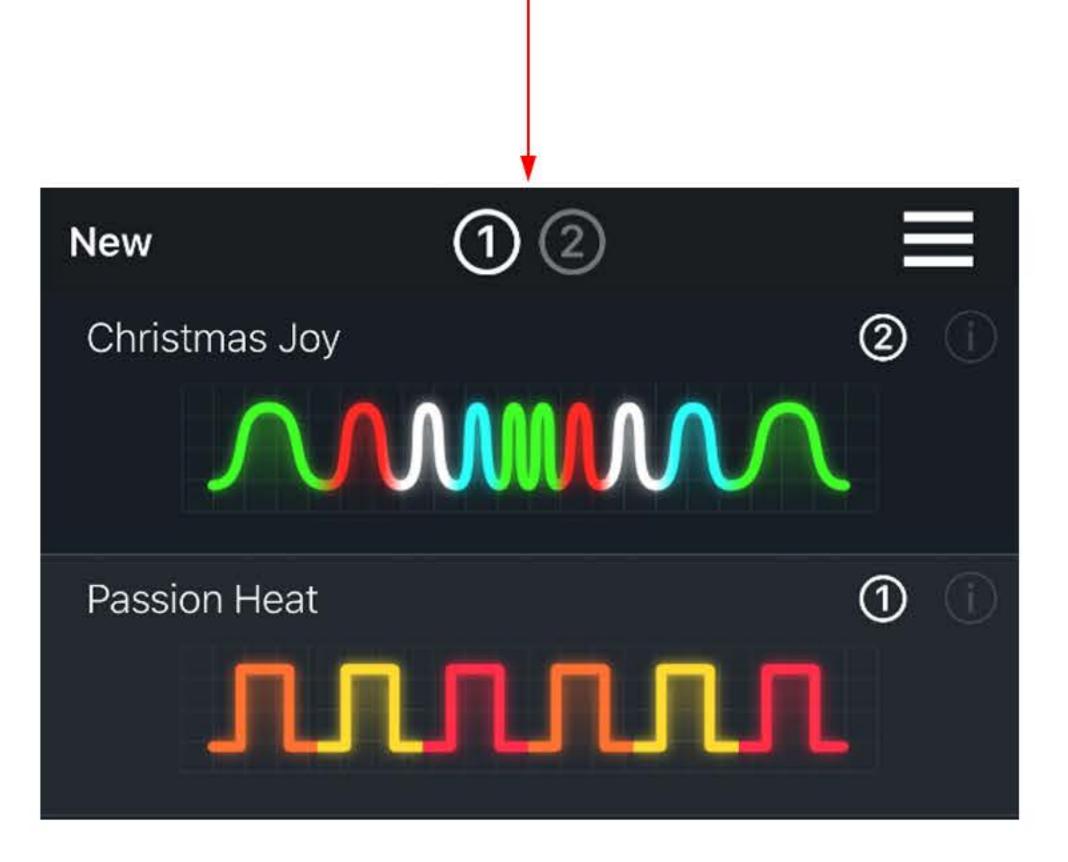




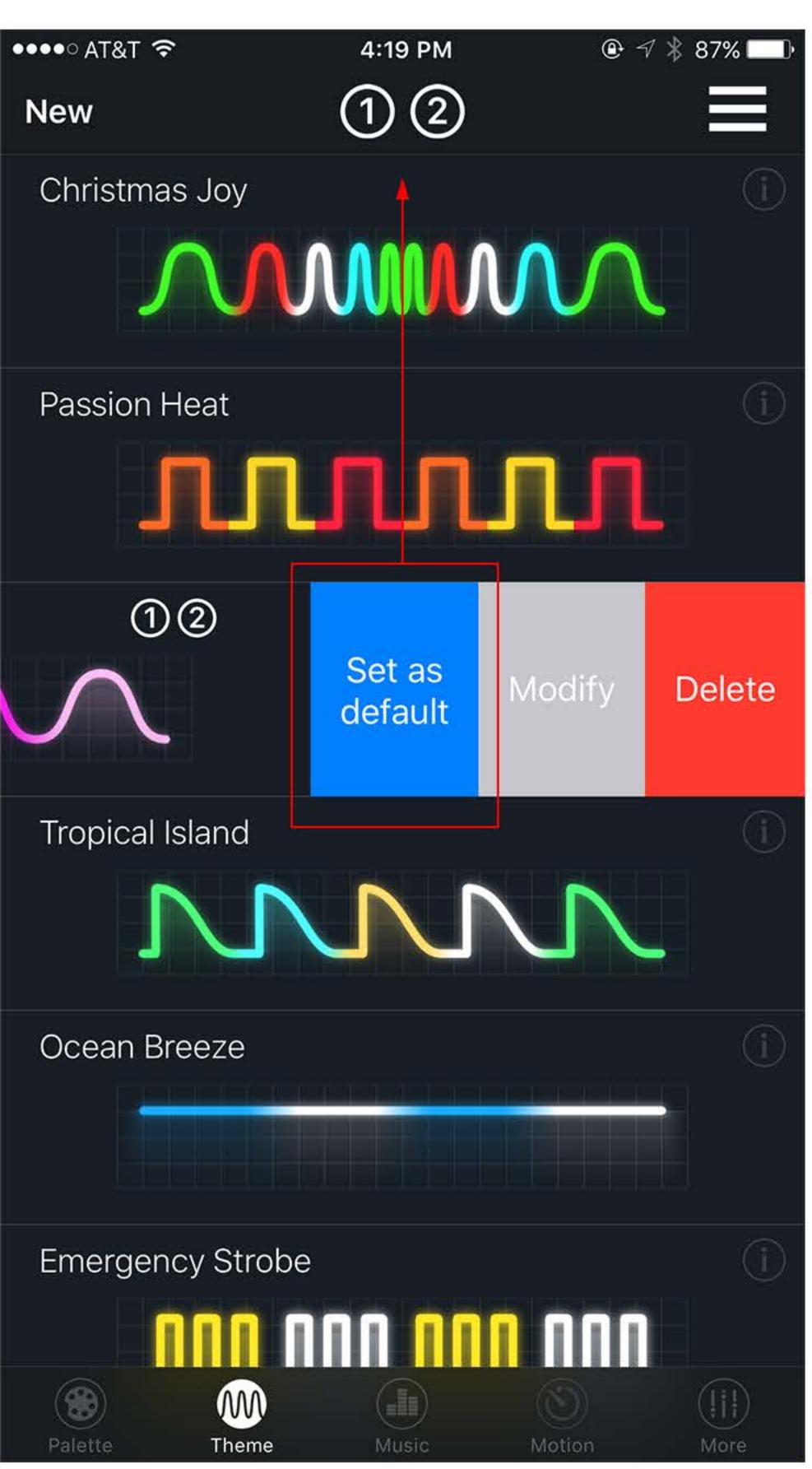
Each zone can display theme different from others.

The top zone markers serve as checkbox.

As shown below, click "2" to uncheck zone 2. then click the second theme, now only zone 1 is assigned to the

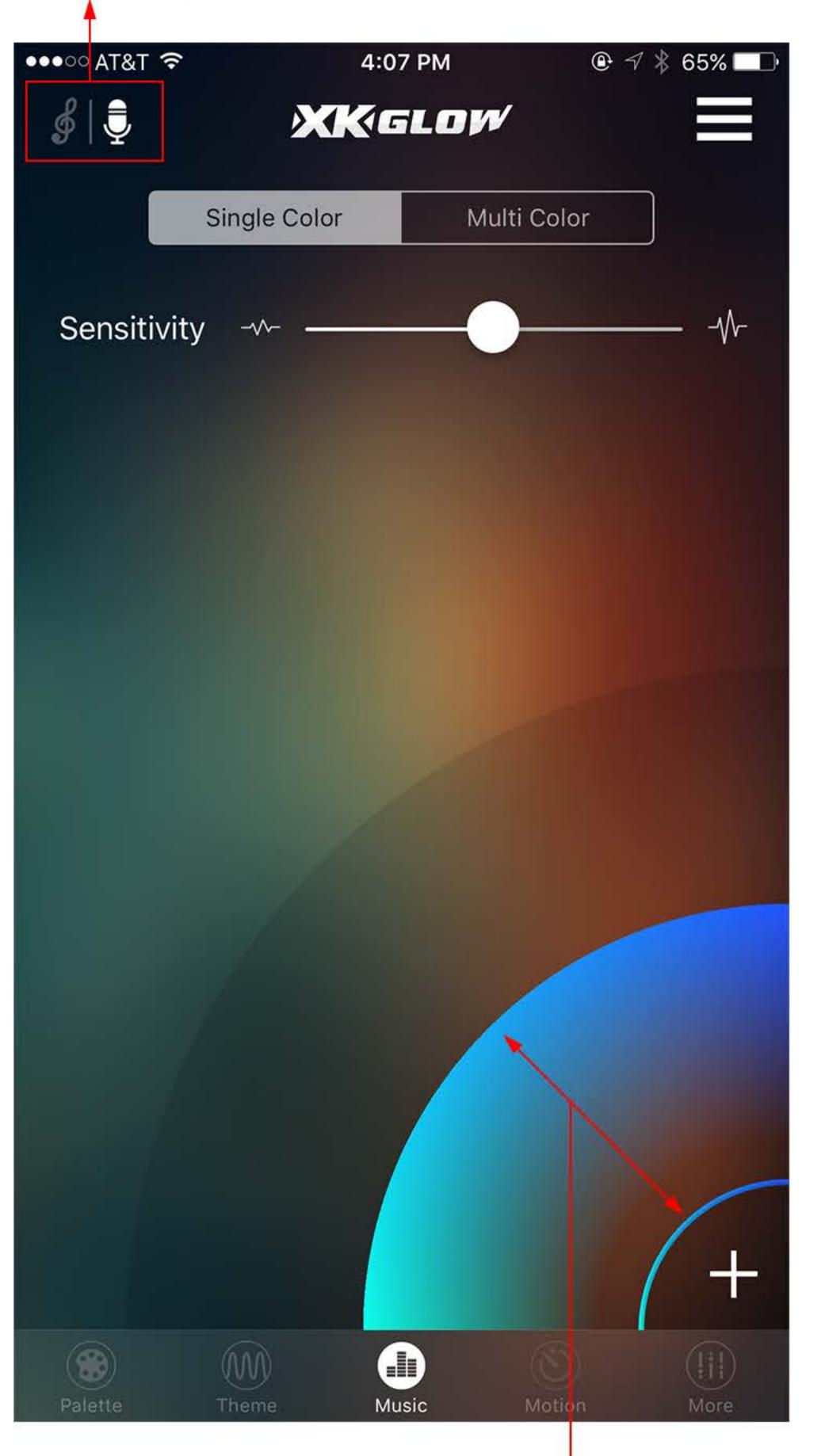


When a theme is being applied to a zone, user can set this theme as Startup theme and etc to current assigned zone(s), similar as Palette page.



## Mic Mode:

Light changes according to sound picked up by mic.



1- The size of the sector will change based on the volume of the music in real time.

2- The color of the sector indicates the current color of each zone. If each zone is displaying different color, they will be blended as shown above.

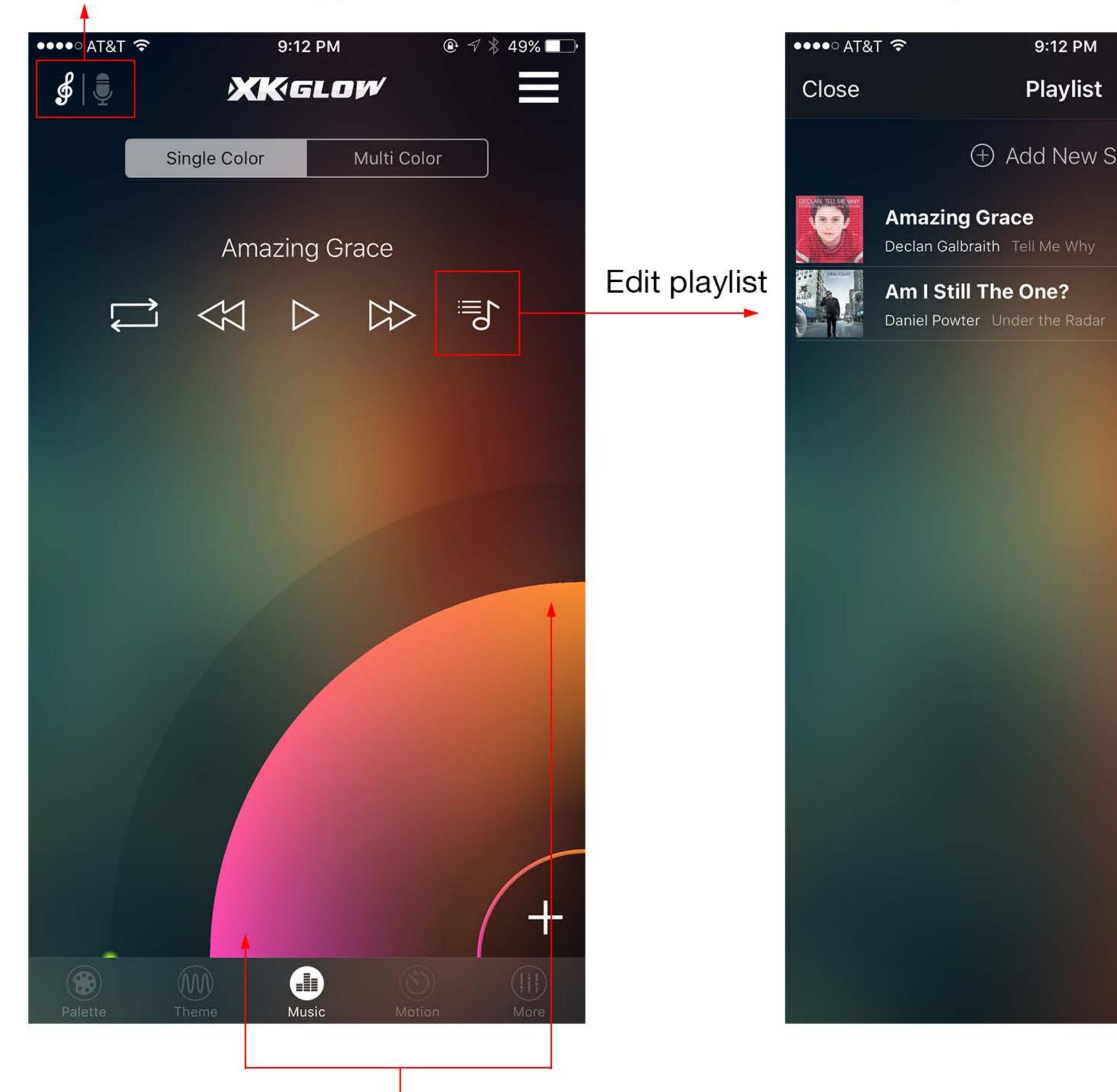


# Music

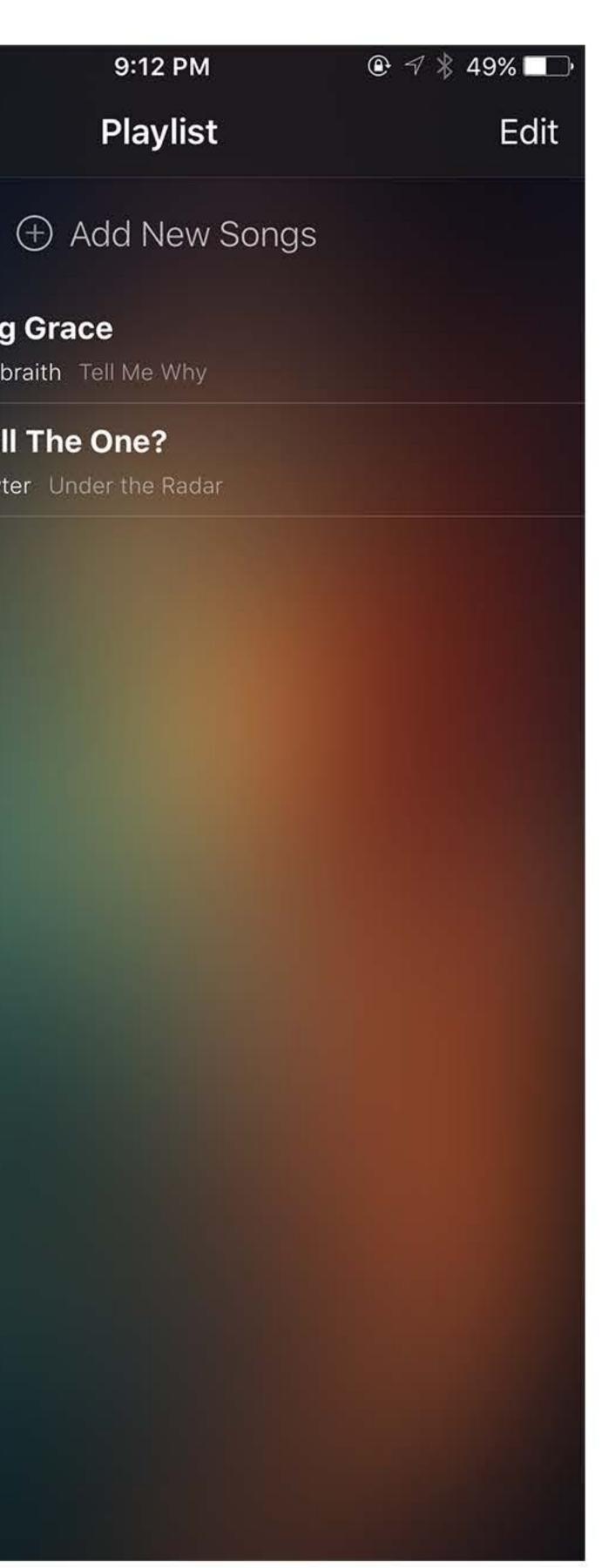
This function controls the light to respond to various sound sources in several ways.

## Music Mode:

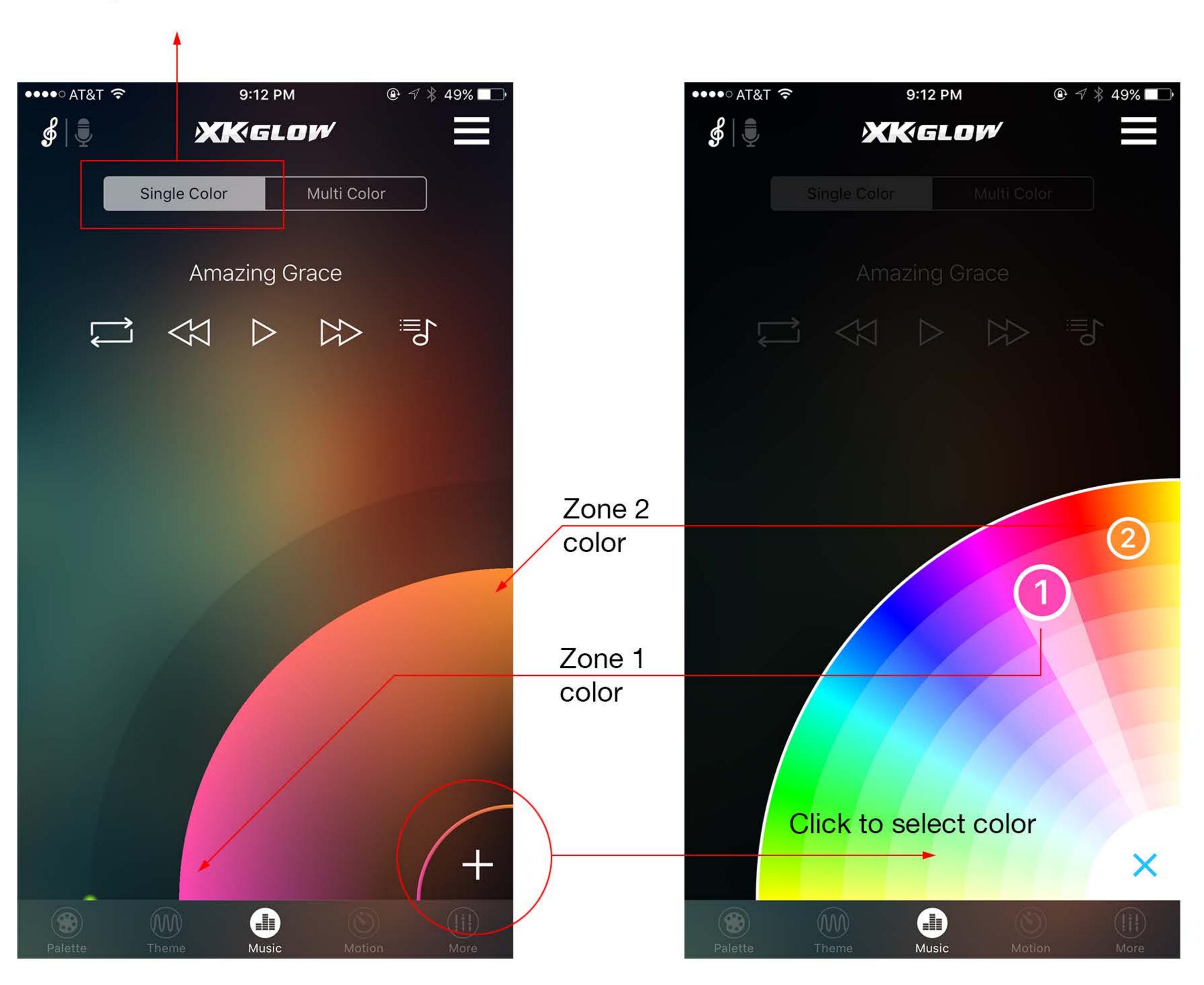
Light changes according to music downloaded in the app.



User can add, remove, rearrange songs in the playlist in this page. This is a fully functional music player.



In single color mode, user can only assign 1 color to each zone. The brightness of that color will be mapped to the volume.

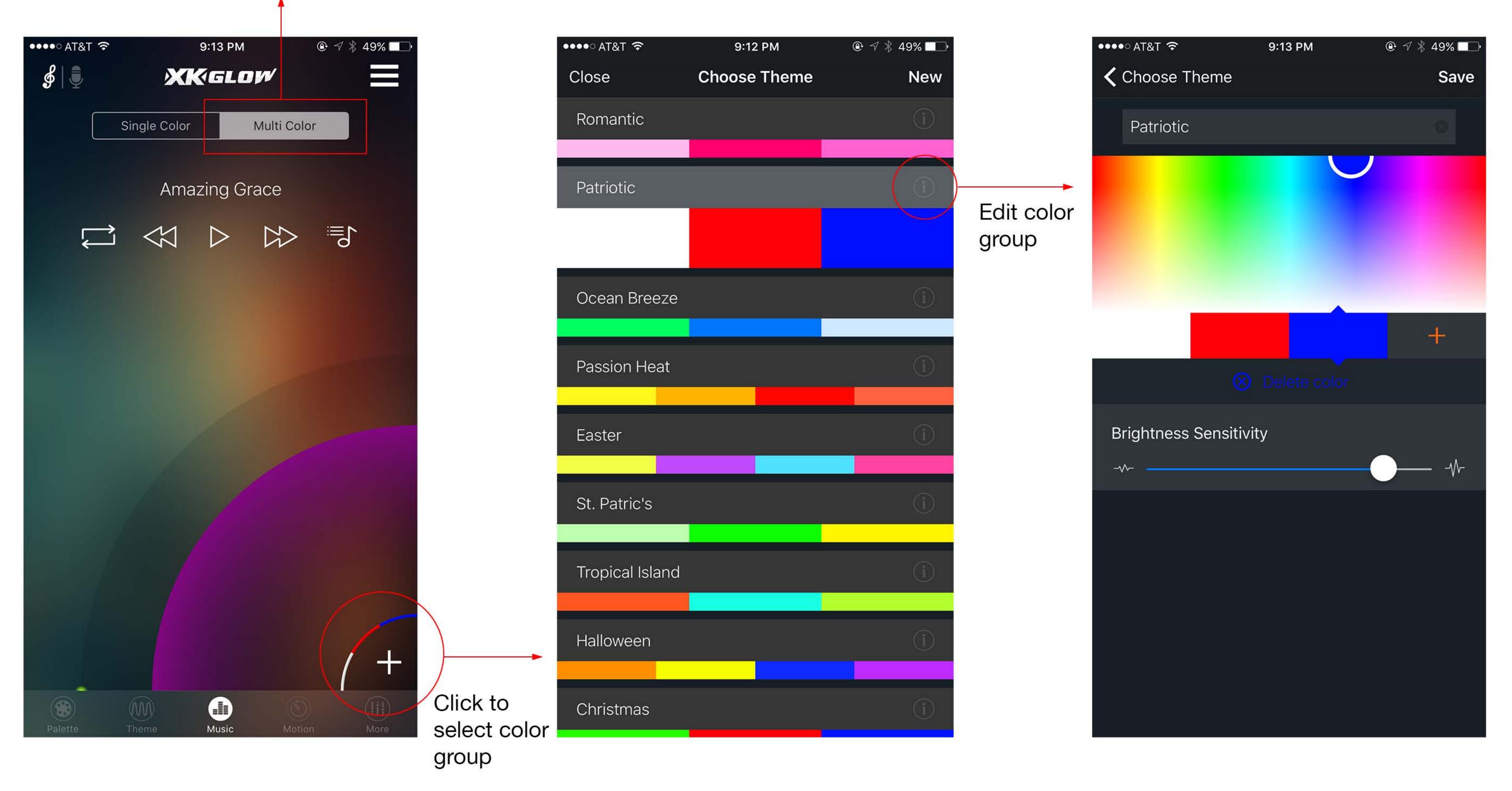




In entire music page (including single/multi color modes, and mic/music modes), we used a dynamic analysis algorithm to analyze the sound/music. Every 5s, the program adjust its color mapping scope based on the volume changing scope of the sond/sound within this 5s. This way, the app automatically adjsuted its sensitivity to maximize the visual effect of the music mode.

In multi color mode, user can assign a group of colors to both zones. Both zones do the samething in this mode.

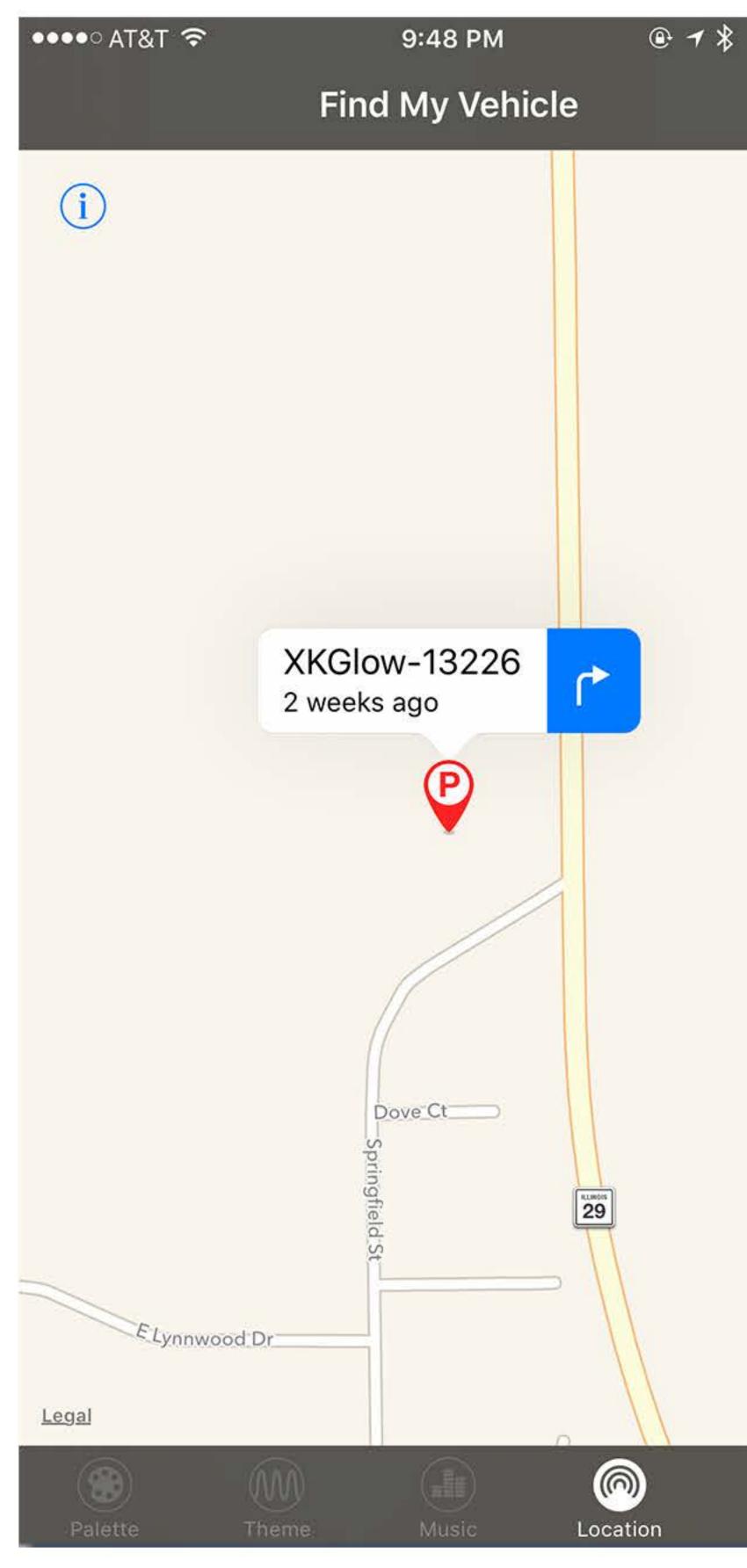
The colors of that group will be mapped to the volume along with the sequence of the colors in that group.





# Music

# This function helps driver find where their car is parked.





# Location

100%	This is the work flow of the <b>Find My</b>
	- When user parks the vehicle and le the distance between the phone and longer, the bluetooth connection eve at about 30-80ft.
	<ul> <li>When the connection is lost, the appendix cally pin down its GPS location as v location and display it on the map a left.</li> </ul>
	<ul> <li>User can click to use navigat tional guidance if needed.</li> </ul>
	- Once the user walks back to the s to controller, the icon will show as C shown on the right. If user still does can tap ito turn on the lights.
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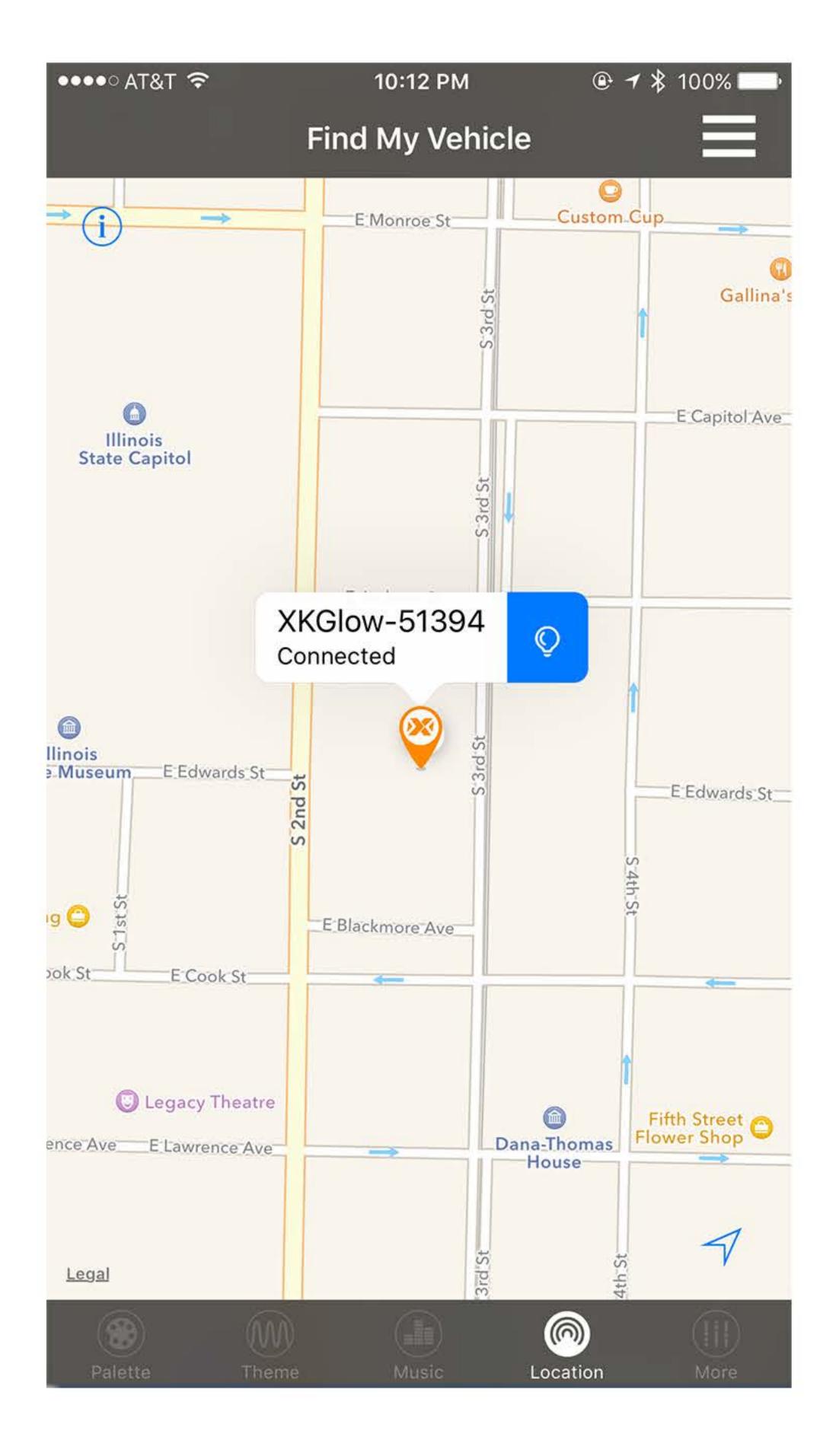
y Vehicle function.

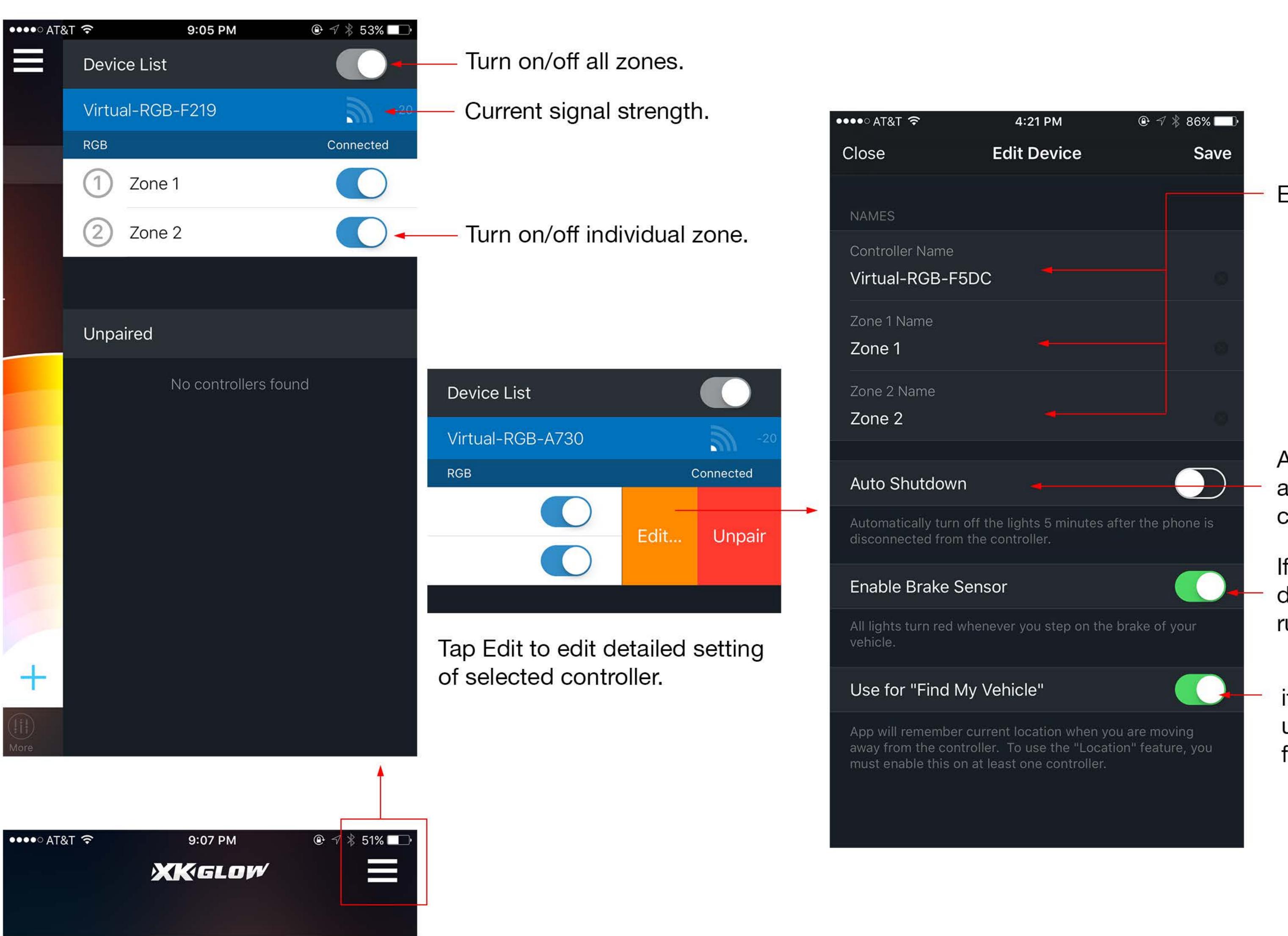
leaves their car, as nd controller gets ventually gets lost

app will automativehicle's parking as shown on the

ation app for direc-

spot and reconnect Connected as sn't see the car, he

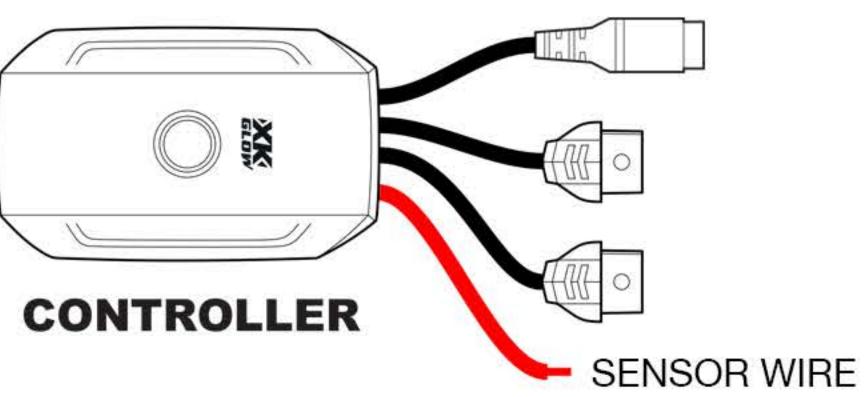




Click duttion to open device list. All paired and unpaired controllers that are currently in range are listed here.



Edit names



All lights automatically shut off 5min after the conection between app and controller is lost.

If this switch is off, this zone will keep doing whatever it is doing and will not run the SMART SENSOR ACTION.

if turned off, the controller will not be used/triggered by Find My Vehicle function.

### Edit names of the controller or zones.