LEDs
2RAVE4

LED SKIN

PATTERNS
& EFFECTS

PIXELS

Configure the controller

- Set to GRB

- Set to WS2811

- Set to 44 segments

- Set to 11 Pixels/Segment

- Total number of pixels should be greater than or equal to 484 pixels

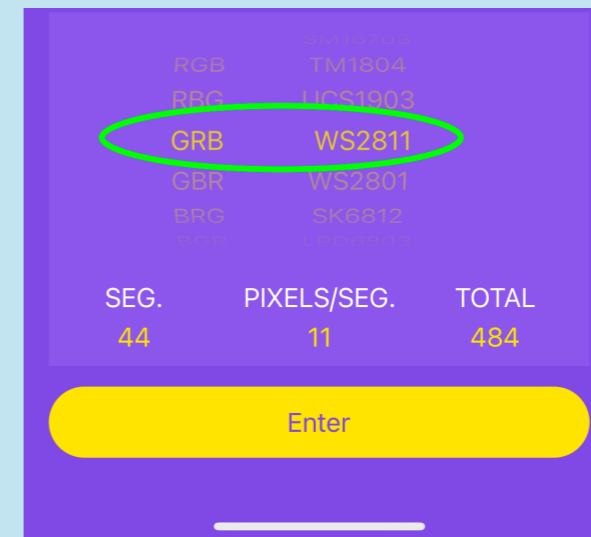Please see the included documentation on how to:
- Download the App, LED CHORD, from the respective app store
- Connect to the LED controller
- Change the Name of the controller

Once connected, verify the following setting:
If needed, set the color configuration column to **GRB**
If needed, set the Chipset to **WS2811**
Selecting any other settings may cause damage to the LEDs!!

If these settings are changed, first disconnect the power to the controller and disconnect the controller from the matrix. Reconnect the power to the controller and connect to the controller using the app. Once connected, modify the settings to **GRB** and **WS2811**.
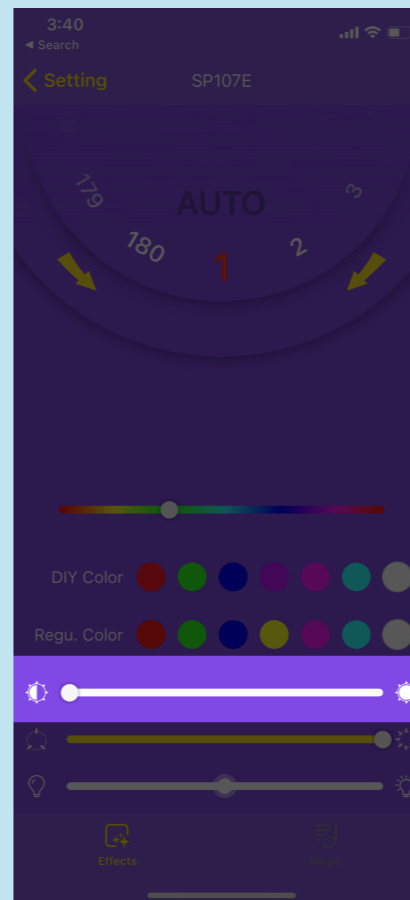Disconnect the power again, reconnect the controller to the matrix, then reconnect the power.

The LED matrix is composed of 484 leds(pixels) in an 44x11(RowxColumn) configuration. Different patterns can be created by altering the row and column number, but, to make sure all LEDs illuminate, make sure that the overall pixel count is greater than or equal to 484 pixels. Below are a few patterns that can be created by changing the number of Segments and Pixels/Segments. Remember that the total should always be greater or equal to 484.
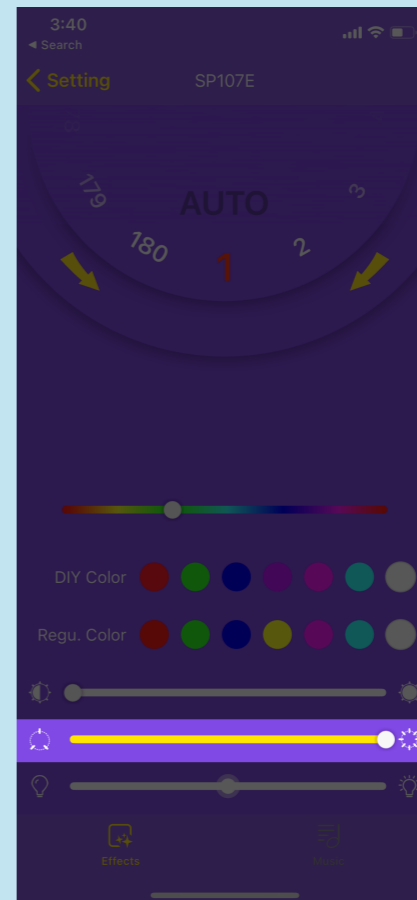
BRIGHTNESS, SPEED, & SENSITIVITY

The brightness, speed, and sensitivity(music reactive mode only) can be adjusted in the app.

BRIGHTNESS   **SPEED**   **SENSITIVITY**

- **Set to Brightness to one setup above lowest setting**

- **Adjust speed of the patterns thru the effects**

- **Adjust sensitivity to lowest setting for best visualization.**
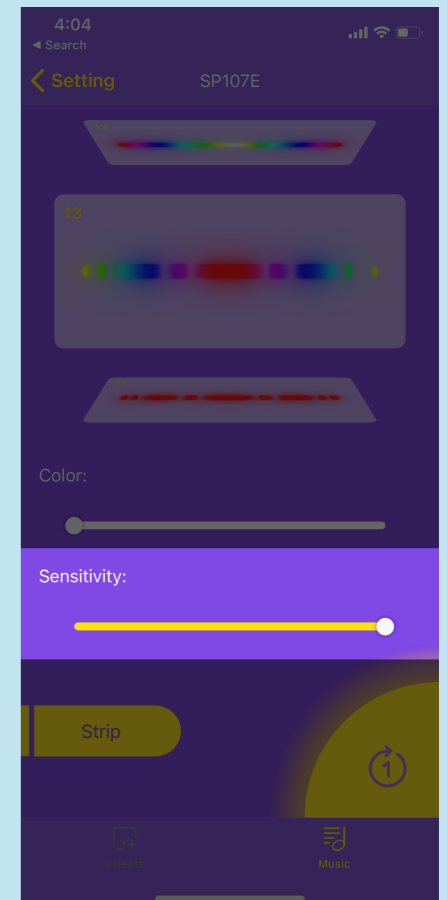
- **Brightness** - Set the brightness to one step higher than the lowest setting(this will conserve battery and light up the skin for well past 8-10 hours). Do not set brightness to greater than 50%. The LEDs are super bright and can cause too much power draw on the USB power bank causing it to shut off and possible discomfort for onlookers. If this happens, disconnect the controller from the LED matrix, power on and connect to the LED controller, and adjust the brightness accordingly and then reconnect to the LED matrix.

- **Speed** - Controls how fast the patterns move thru the effects.

- **Sensitivity** - Controls the sensitivity of the music reactive mode. Lowest setting is recommended for best visual effects.

STRAIGHT

To achieve this pattern, set the Seg. to **44** and the Pixels/Seg. to **11**.

Works well with any chosen effect in **Effects**.

Works well, with **3**, **4**, **13**, and **18** in **Music Reactive mode**

Pixels Setting

Seg.	Pixels/Seg.
44	11

Total pixels: 484

Cancel   OK

GRB   WS2811
GBR   WS2801
BRG   SK6812

SEG.	PIXELS/SEG.	TOTAL
44	11	484

Enter

WAVE

To achieve this pattern, set the Seg. to **25** and the Pixels/Seg. to **21**.

Works well with any chosen effect in **Effects**.

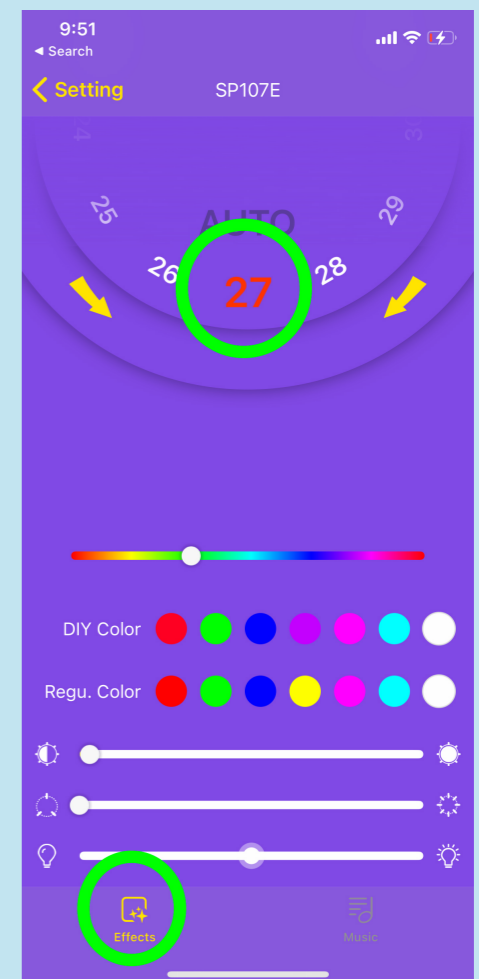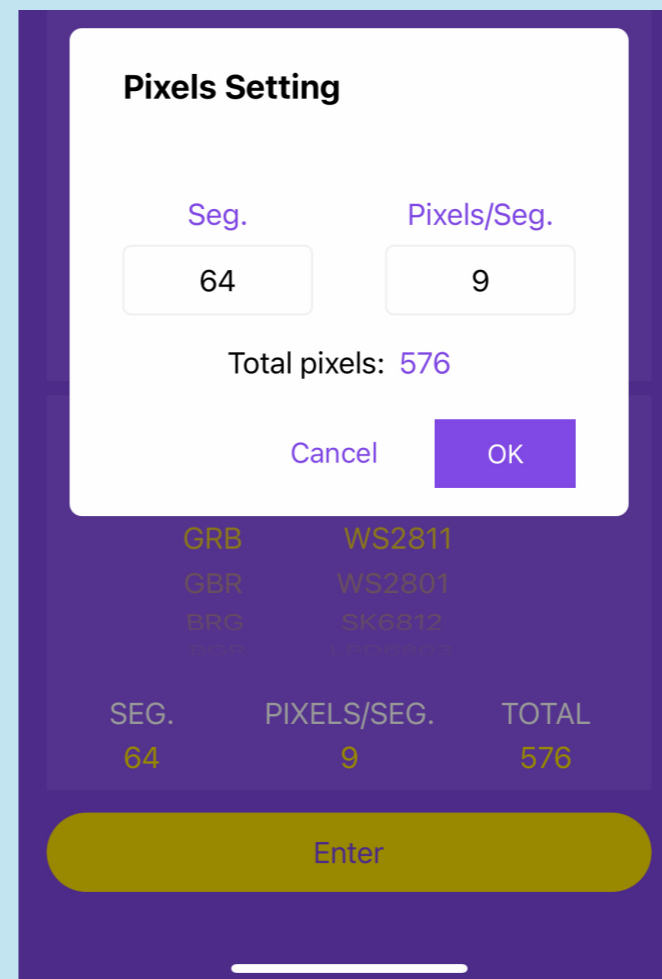Works well, with **13** and **18** in **Music Reactive mode**.

SIDEWAYS

To achieve this pattern, set the Seg. to **64** and the Pixels/Seg. to **9**.

Works well with any chosen effect in **Effects**.

Works well, with **13** and **18** in **Music Reactive mode**

OTHER PATTERNS & WIRING

A diamond pattern can be achieved by setting the Seg. to **49** and the Pixels/Seg. to **10**.

Works well with any chosen effect in **Effects**.

Works well, with **13** and **18** in **Music Reactive mode**

Try changing the **Seg** and **Pixels/Seg** to achieve different patterns.

Turning ON/OFF:

Once connected, toggle the switch in the app next to the name of the controller. To the right is ON(yellow) to the left is OFF.

ON

SP107E

OFF

SP107E

WIRING:

Route the power adapter cable along the rear and through the 'light wire' loops then inside the gap at the bottom. Before zipping the LED Skin all the way, connect the power adapter to the LED Skin. Place your USB power bank in the top pocket of the Lunchbox and connect the USB power adapter when you are ready for your Lunchbox to SHINE!