

SPACE CADETS LIGHTING



// FIELD GUIDE //

SPACE CAJETS

LightDrive Electrical Connections

-Step 1-

Solder your LED strip to the LightDrive USB-C LED quick connect. Ensure polarity is correct!



-Step 2-

You can mount your LightDrive using either M3 screws, 1/8" screws, or simply peel the backing off the double sided tape on the back and stick it in place! The tape is VHB, an industrial strength mounting tape :)

-Step 3-

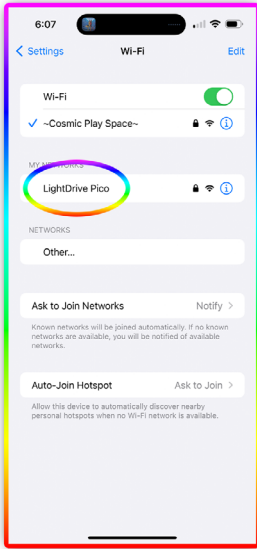
Connect the LED Strip to the LightDrive's LED Out. Then connect a USB-C power adaptor rated to 5V 3A.



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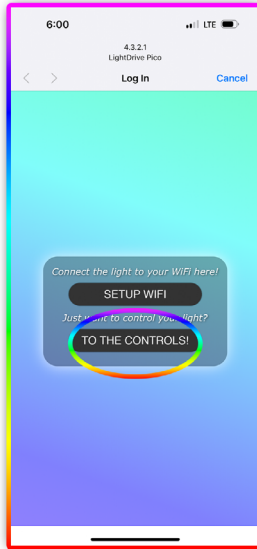
LightDrive LED Setup

-Step 1-



Connect to the WiFi network
"LightDrive Pico"
Password- "spacecadets"

-Step 2-



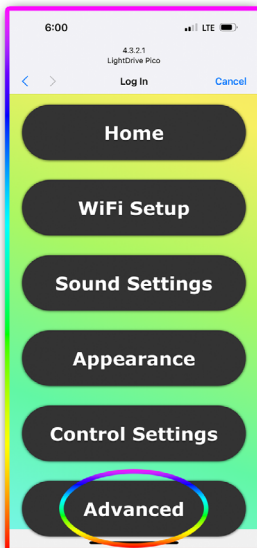
Tap "To The Controls"

-Step 3-



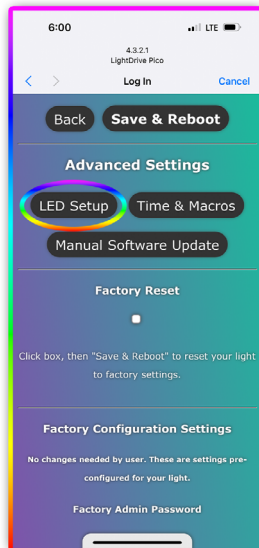
Tap "Setup"

-Step 4-



Tap "Advanced"

-Step 5-



Tap "LED Setup"

LightDrive LED Setup



-Step 6-

Here you enter the number of LEDs on your LED strip.

-Step 7-

Click this check mark if you are using RGBW led strips like SK6812 strips. Uncheck this box if you are using WS2812B or WS2811 LED strips.

-Step 8-

This sets the way that pastel colors and white are calculated.

- ***Accurate**- Dims the RGB channels and increases the white channel to render white. Saves power.
- ***Brighter**- Adds the RGB and white together to render white, uses way more power.

-Step 9-

Here you set the order of the led data, if two of the colors on your strip are reversed then change this to match.

-Step 10-

This reverses the direction patterns move on the led strip.

-Step 11-

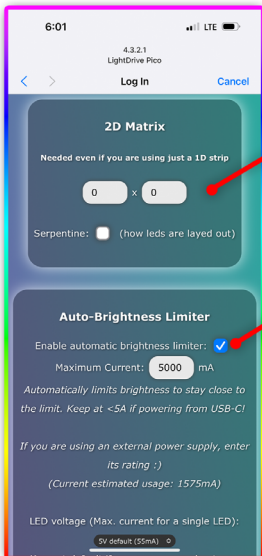
If you are making a 2D array of leds type in how many leds wide and tall your array is. *The two numbers multiplied together must equal the led count.

-Step 12-

Automatic Brightness Limiter

Set the max current to the capabilities of your power adaptor. The LightDrive can handle up to 5A so the default is set to 5000mA.

*You can disable the brightness limiter to not limit the power usage of your LightDrive.



Now Scroll to the top and press

Save

You're Done!

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Remote Mounting & Charging



-Mounting-

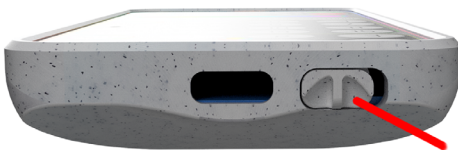
Attach magnetic remote mount to wall with the 2 provided remote mount screws. Then the remote will simply magnetically attach to the mount.

-Charging-

To charge your remote connect a USB-C cable & turn on remote.

It will complete it's charging in around an hour. It pulses orange when it is below 25% charge, aqua when it is between 25 and 75 percent, and green when it is above 75%. When it is full the leds will turn off.

The remote's LED will pulse orange when the battery is below 5 percent. You can also see the remote's battery level in the info tab of the app.

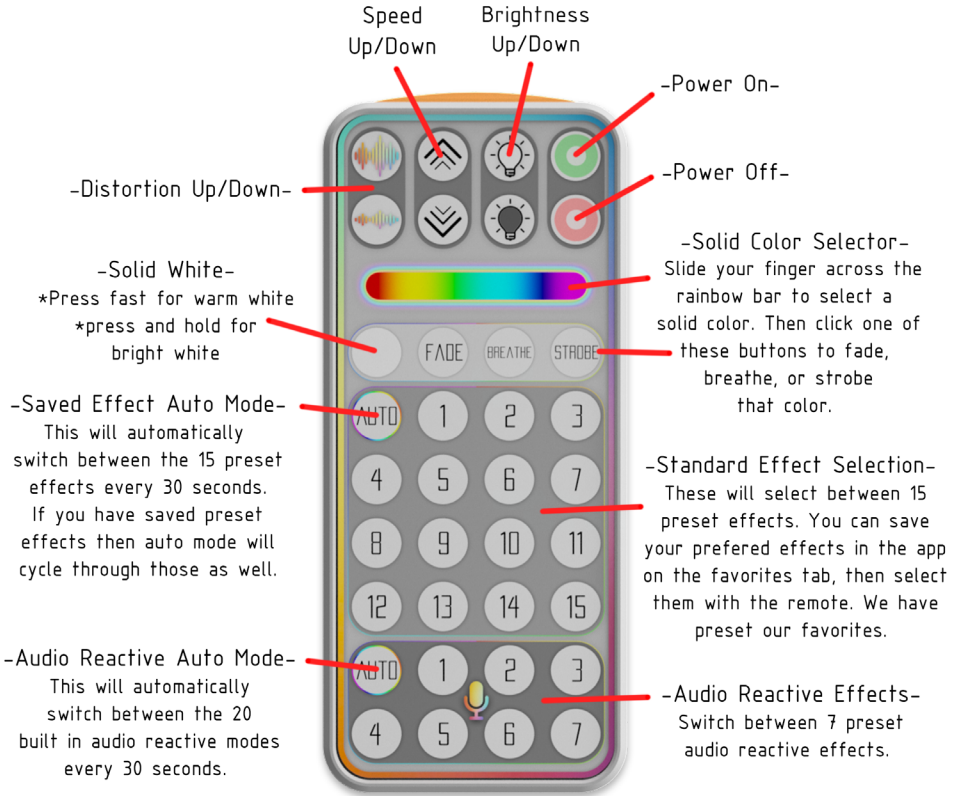


-Power On/Off-

Switch remote power on/off. Useful if you want to save battery life or carry the remote in a pocket.

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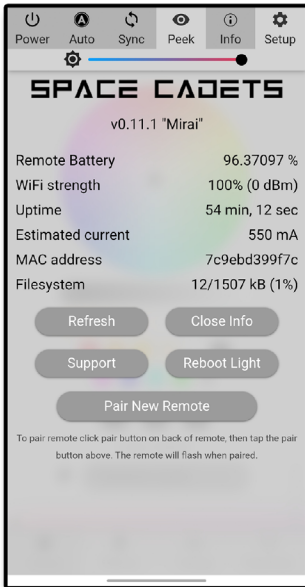
The Touch Remote



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Remote Pairing

Your remote comes out of the box paired to your light, but if you want to pair a different remote to your light follow these instructions :)



-Step 1-

Open the app that controls your light, then select your light to open it's controls.

-Step 2-

Tap the "Info" button at the top of the screen. That will bring up the page in the image on the left.

-Step 3-

Tap the "Pair New Remote Button", the light will then pulse blue, if it does not then tap the button again.



-Step 4-

Press and hold the Auto button for 6 seconds to enable Pairing Mode. The remote will pulse blue, then when it pairs to the light it will stop flashing

After that pairing is complete!

Wait for your light to stop pulsing blue then it is ready to use :)

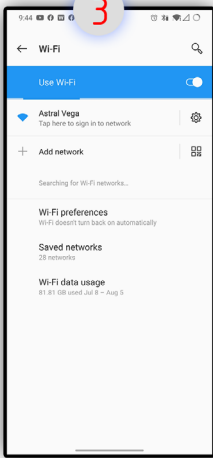
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Connecting Your Light to the App

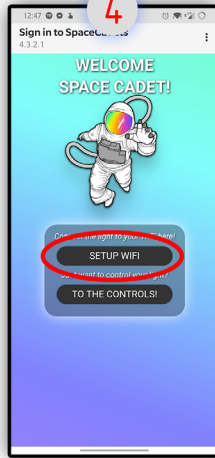
STEP 1 - Connect your light to power

STEP 2 - Download the "WLED Native" app in your app store

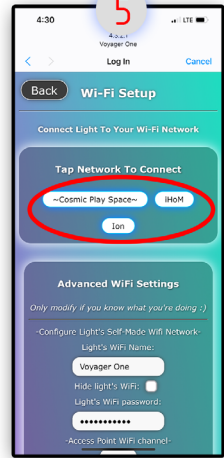
- Now Follow the steps below -



Open your phone WiFi settings and select the name of your light. The Password is "spacecadets".



Then tap "Sign in to network". This page will open, tap "SETUP WIFI"



Tap your network's name, then enter it's password and tap "Save and Connect" to connect!

6

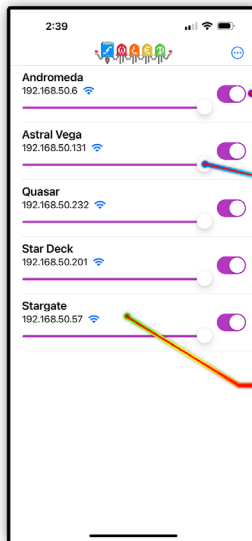
Re-connect to your WiFi network.

7

Open WLED Native, if it asks for wifi permission tap yes.

The app will automatically search for lights on your network.

To search for lights again swipe down from the top of the screen.



Toggle light on & off

Controls brightness

Tap the center of the light you want to control to load it's full interface.

Swipe from right to left on a light to delete or edit it's name

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Using The App - Colors

-Toggle Auto Mode-
This switches the effect every 30 seconds. If you have presets saved then auto mode will cycle through your presets.

Sync multiple lights together. After you tap sync on both lights select an effect or color.

Shows live preview of effect in the app

This shows statistics about the light.

Light Settings (wifi, etc.)

Brightness

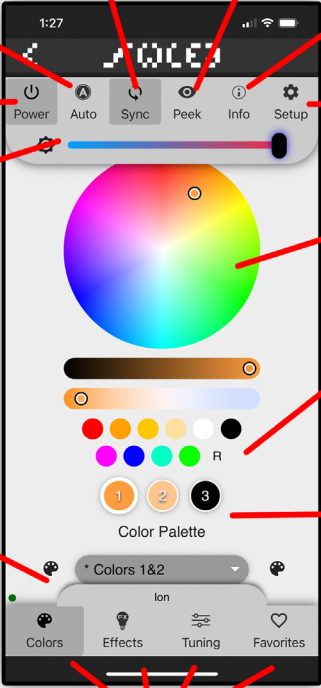
Color Selector

Preset Color Selection

Color Palette Selector-
You can select the color palette that all the effects use. For example you could select "rainbow" and that would make all the effects rainbow colors. Or you could select "Sunset", which would make all the effects hues of red, yellow, and purple.
Select "Random Cycle" to automatically flip the color palette every 30 seconds.

Base Color Selector-
You can use these to set a base color, secondary color, and third color. These will be used throughout the different effects. Black means the leds are off. Usually setting a primary color, then the others to black is a good starting point, but you can play with these and experiment!

Page Tabs



The screenshot shows the app's main interface. At the top, there's a status bar with the time 1:27 and signal strength. Below that, the app title 'SPACE CAJETS' is displayed in a stylized font. A navigation bar contains icons for Power, Auto, Sync, Peek, Info, and Setup. Below the navigation bar is a brightness slider. The main area features a large color wheel (Color Selector) and a horizontal bar for Preset Color Selection. Below these are three colored circles (Base Color Selector) and a Color Palette selector. At the bottom, there are four page tabs: Colors, Effects, Tuning, and Favorites. The 'Colors' tab is highlighted in grey.

This is the "Colors" Page highlighted in grey,

The "Effects" page is where you can change the light's effect.

The "Tuning" page is where you can change speed, distortion, and sound reactance of the effects.

The "Favorites" page is where you can save and select your favorite effects.

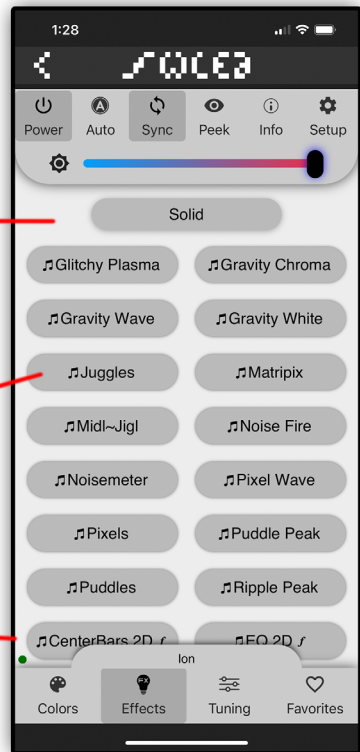
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Using The App - Effects

The "Solid" Effect sets the light to whatever color you select on the "Colors" page with the color wheel.

Effects with only a Music Note will react to the volume of your music.

Effects with a note and an f will react to the tone of your music. So they will listen to the song's trebel and bass, then generate patterns that respond in sync.



To select an effect simply scroll through the effects and tap any of the effects to select it.

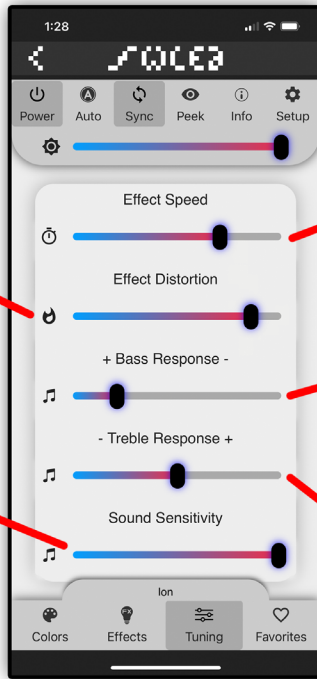
All of the effects without a music note do not respond to sound. Simply select the effect and it will play on the light!

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Using The App - Tuning

The Distortion slider changes a different part of each effect. For example if the effect has bouncing dots then this would change the number of dots. Just experiment and see what changes!

This changes how much the light reacts to music. If your music is quiet then turn this up, if it is loud then turn this down.



This changes the speed of the effect.

Bass Response changes how the light reacts to bass in your music. Slide it to the left for more response to bass, and the right for less.

Trebel Response changes the lights response to trebel in your music. Slide to the right for more response, to the left for less.

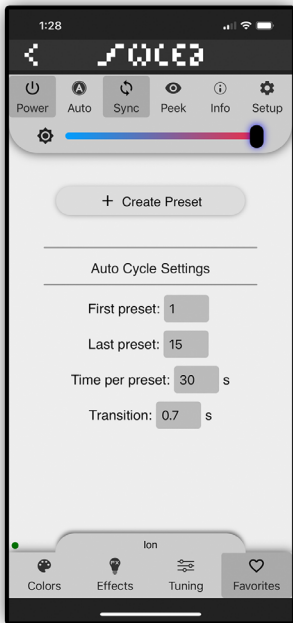
Play with these sliders and really tune how the effect reacts!
If you find a combination of tuning you love then save it as a preset on the favorites page :)

*The Bass, Trebel, and Sound Sensitivity sliders only are used when a sound reactive effect is playing.

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Using The App - Favorites

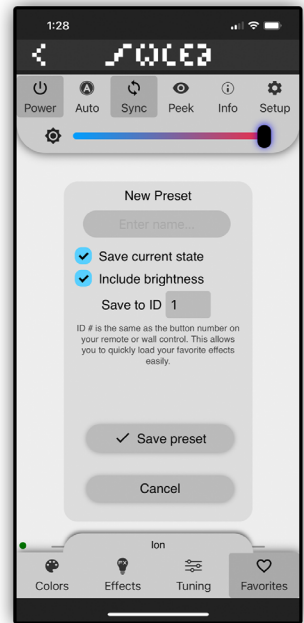
Here you can save your favorite effects and load them quickly!



To save an effect tap "Create Preset".

Then you can name it here, and add a quick load label if you would like.

If "save current state" is checked then the effect that is currently playing, and the exact tuning of the sliders will all be saved. If "include brightness" is checked then the preset will save the current brightness.



Auto cycle mode cycles through the buttons 1-15 of your remote by default.

If you create a preset and save it to ID #1 for example then button 1 on your remote will play that preset when pressed, and Auto mode will play that preset when auto mode is enabled instead of the default #1 effect.

-Auto Cycle Settings-

Here you can change the Auto Cycle settings.

First Preset- What preset do you want to start with?

Last Preset- What preset do you want to end with?

Time Per Preset- How many seconds should each effect play.

Transition- How many seconds do you want the light to fade between presets?

(Auto mode will cycle through all the presets between the first and last)