

# WEC+3 BOSS PIXEL DANCER APP USER MANUAL V2



16-bit RGB(W) Pixel Control over Wi-Fi  
Closed or Open Network  
ANDROID & iOS

*Intelligent Illumination  
from the Minleon Group*



Presented by  
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Pixel Dancer is compatible with both the *WEC+3 Boss* and the *Wi-Fi Effects Controller – Mini*



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## GEN3 WI-FI EFFECTS CONTROLLER WHAT'S NEW IN 2024



Approx.  
150-200FT  
wireless  
range

The Gen3 Wi-Fi Effects Controller – has 2 embodiments the WEC3 Boss w/ the external antenna & the WEC Mini w/ an internal antenna.



Approx. 75-100FT wireless range

- ON-BOARD SCHEDULER W/ BATTERY BACK-UP FOR TIME
- **BACKGROUND COLOR** OPTION (FOR 6 CUSTOM COLORS)
- DARK BULB SETTING
- SAVE & NAME **20 SHOWS/SCHEDULES** THROUGHOUT THE YEAR ... W/ MULTIPLE EFFECT CAROUSEL OPTION IN EACH SCHEDULE
- STREAMLINED **NETWORK MODE** CONFIGURATION, TO INTEGRATE W/ THIRD-PARTY HOME & OFFICE WI-FI ROUTERS



## PIXEL DANCER WHERE TO FIND THE APP

FOR ANDROID ON GOOGLE PLAY

1. GO TO [GOOGLE.COM](https://www.google.com) AND SEARCH FOR "PIXEL DANCER"
2. OR GO TO [HTTPS://PLAY.GOOGLE.COM/STORE/APPS/DETAILS?ID=COM.RAINMIN.PD&HL=EN\\_US](https://play.google.com/store/apps/details?id=com.rainmin.pd&hl=en_US)

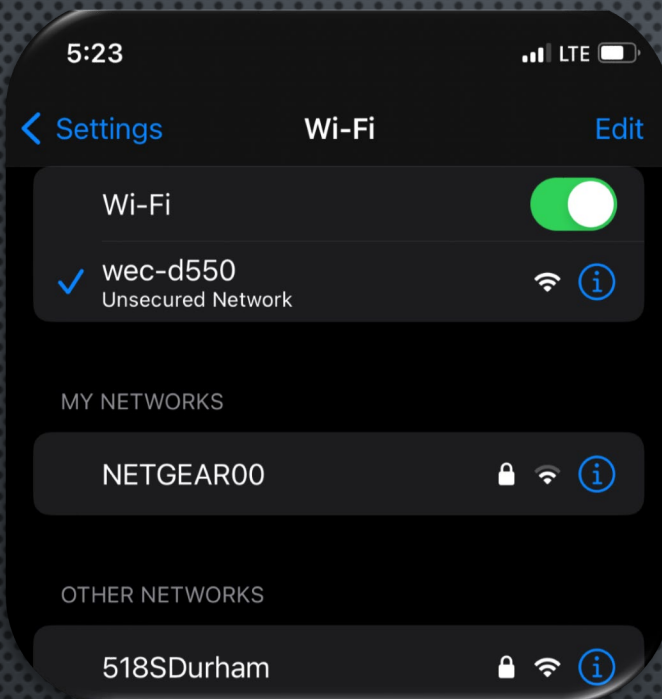
FOR IPHONE AT APP STORE

1. GO TO [HTTPS://WWW.APPLE.COM/APP-STORE/](https://www.apple.com/app-store/) AND SEARCH FOR "PIXEL DANCER"
2. OR GO TO [HTTPS://APPS.APPLE.COM/US/APP/PIXEL-DANCER/ID1539840886](https://apps.apple.com/us/app/pixel-dancer/id1539840886)



Please connect your Wi-Fi to **WEC**  
to active the control of Pixel Dancer APP

Connect Wi-Fi



# PIXEL DANCER

## THE SET UP



1. PIXEL DANCER WILL PROMPT US TO CONNECT TO A NETWORK, IF IT CANNOT DISCOVER A WEC
2. GO TO YOUR SMART DEVICE OR LAPTOP'S WI-FI SETTINGS
3. LOOK FOR A WI-FI NETWORK NAMED WEC-XXXX & CONNECT

**PRO TIP:** IF WE RECEIVE A POP-UP NOTIFICATION, WE MAY HAVE LOST THE WI-FI CONNECTION. CONSIDER MAKING YOUR WEC A PREFERRED NETWORK ON YOUR SMART PHONE — ESPECIALLY ANDROIDS. OR, "FORGETTING" OTHER PREFERRED NETWORKS OUR SMART PHONE LIKES, DURING INSTALLATION.

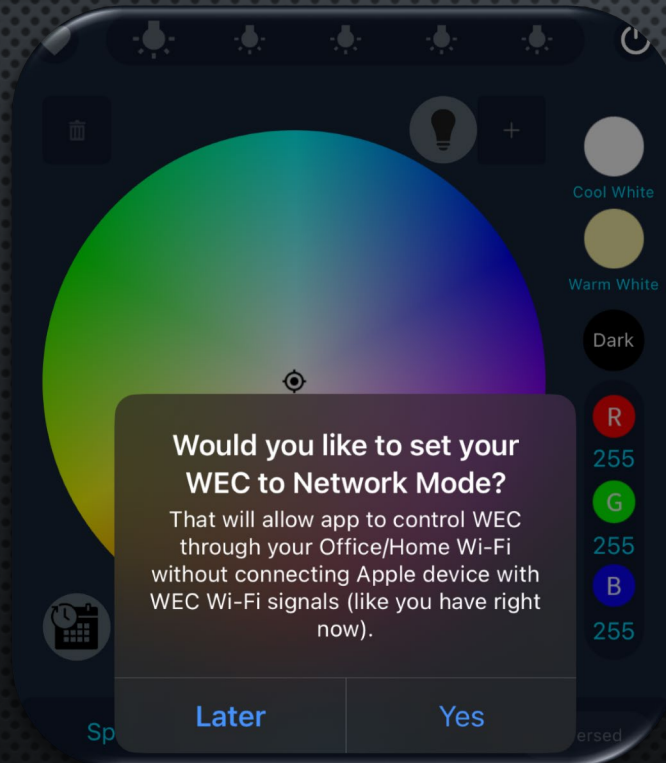
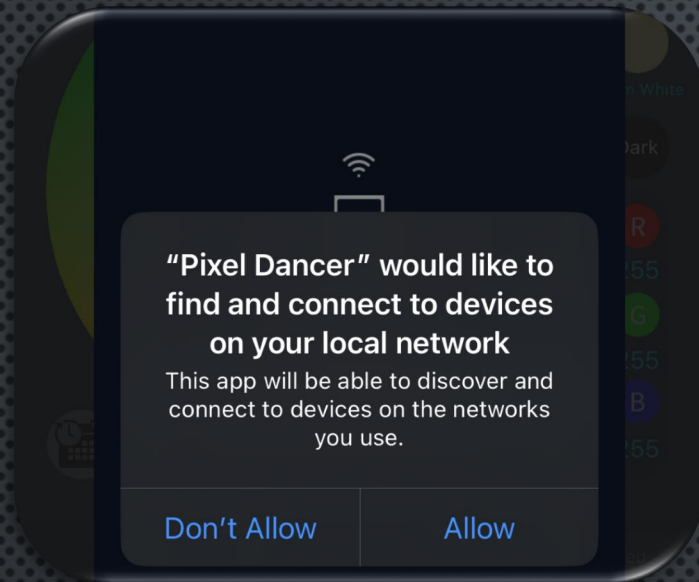
# PIXEL DANCER

## THE SET UP



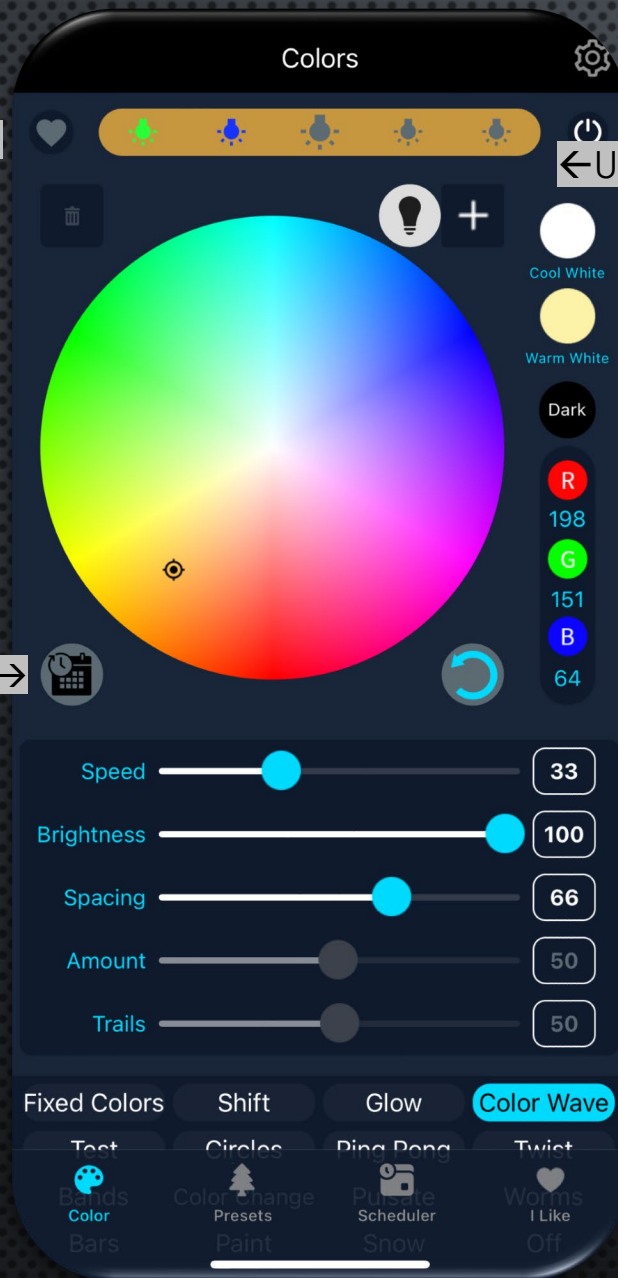
PIXEL DANCER ALSO WILL PROMPT US WITH THE FOLLOWING:

1. CONNECT TO DEVICES ON YOUR LOCAL NETWORK: TAP ALLOW (THIS PERMITS THE APP TO CONNECT TO THE WECs)
2. WOULD YOU LIKE TO CONNECT TO NETWORK MODE? YOUR CALL (MORE DETAILS ON SLIDE 16)



I LIKE / Set  
Favorites→

Quick  
Scheduler→



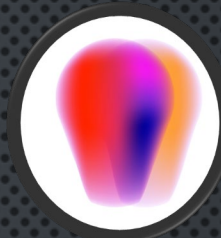
←Up to Five foreground color options

←Background Color &  
Add Color Icons

←Flip Direction

← I LIKE / Recall  
Favorites

# PIXEL DANCER COLORS PAGE



1. **SELECT 5 CUSTOM COLORS, & A 6<sup>TH</sup> BACKGROUND COLOR (+ ICON ADDS A COLOR)**
2. **QUICK BUTTONS FOR COOL WHITE, WARM WHITE & DARK BULB**
3. TAP R-G-B BUTTONS TO INPUT COLOR VALUE 1-255
4. FLIP DIRECTION, ADJUST PARAMETER SLIDERS
5. EFFECT BUTTONS AT THE BOTTOM
6. QUICK SCHEDULER BUTTON TO IMPORT ANIMATIONS INTO SCHEDULE

**Pro Tip:** Save your favorite holiday color pallets as Fixed Effects in the "I Like" Menu for quick reference.



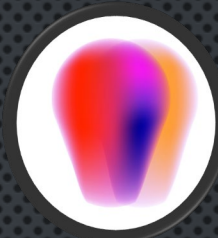
# PIXEL DANCER PRESETS PAGE



12 PRE-SET HOLIDAY COLOR PALLETS

14 PRE-SET EFFECTS W/ MULTIPLE PARAMETER SETTINGS

QUICK SCHEDULER BUTTON



# PIXEL DANCER

## SCHEDULER: DAYS & TIMES

CREATE A LIGHT SHOW W/ ONE OR MULTIPLE ANIMATIONS

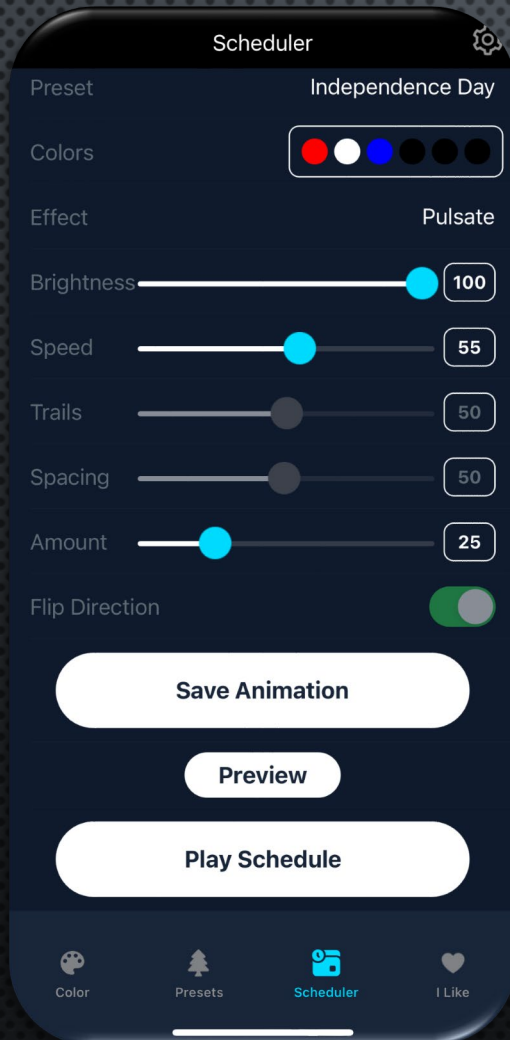
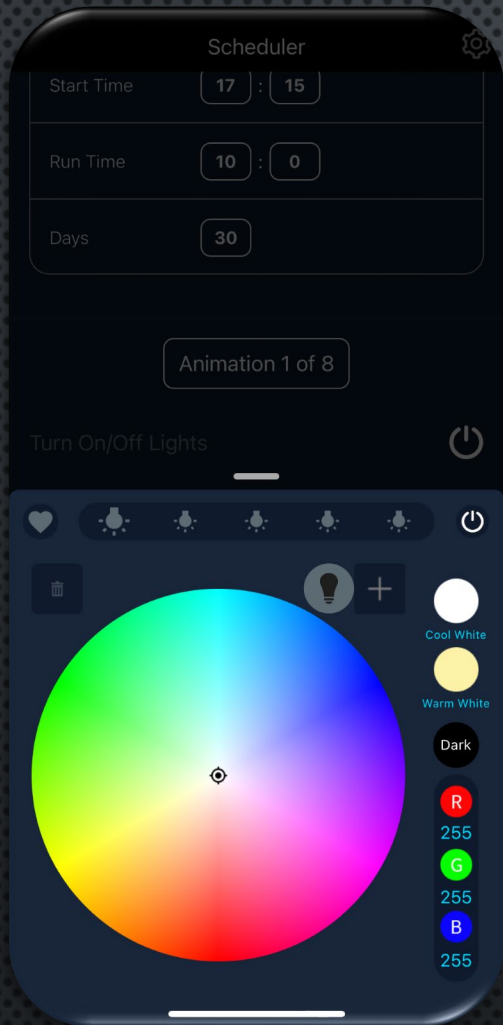
1. SELECT SCHEDULE BY TAPPING ON THE TITLE (“SCHEDULE 1” OR “SPRINGTIME” IN THE EXAMPLE AT LEFT)
2. RENAME OR CLEAR THE SCHEDULE W/ THE ADJACENT ICONS
3. SET THE START DATE (OR DAYS OF THE WEEK)
4. SET THE START TIME (24-HOUR CLOCK; 5PM = 17:00)
5. SET THE RUN TIME (HOURS:MINUTES)
6. SET THE # OF DAYS THIS SCHEDULE SHOULD RUN (SETTING DAY TO MONDAY, AND DAYS TO 3 MEANS YOUR SHOW WILL RUN MON, TUE & WED **EVERY WEEK OF THE YEAR**, UNLESS A SHORTER HOLIDAY SCHEDULE (DATE=) IS SET TO OVERLAP)
7. TAP “ANIMATION” & SELECT 1-8
8. “MINUTES IN SCHEDULE” DEFINES THE TIME THIS EFFECT PLAYS COMPARED TO OTHER ANIMATIONS/EFFECTS IN THAT SCHEDULE. IF ONLY 1 ANIMATION IS IN THE SCHEDULE, THEN IT WILL LOOP UNTIL THE SET “RUN TIME” EXPIRES.

9. SELECT PRESET.

(MORE ... )

# PIXEL DANCER

## SCHEDULER: EFFECTS & OPTIONS



10. SELECT COLORS (IF “CUSTOM COLORS” PRESET)

11. SELECT YOUR EFFECT

12. TOGGLE THE SLIDERS OR TAP THE NUMBER AND INPUT YOUR VALUE (GREYED-OUT SLIDERS DO NOT APPLY TO SELECTED EFFECT.)

13. SAVE ANIMATION

14. PREVIEW ANIMATION

15. PLAY FULL SCHEDULE

# WEC+3 PIXEL DANCER

## SCHEDULER PRIORITIES



Scheduler

Evening Chill

Clear

Date=

7:July

1

Start Time

20

:

0

Run Time

4

:

0

Days

30

Animation 2 of 8

Turn On/Off Lights

Minutes in Schedule

240

Select 1,440 for full day.

Preset

Independence Day

Colors

Effect

Color Wave

Color

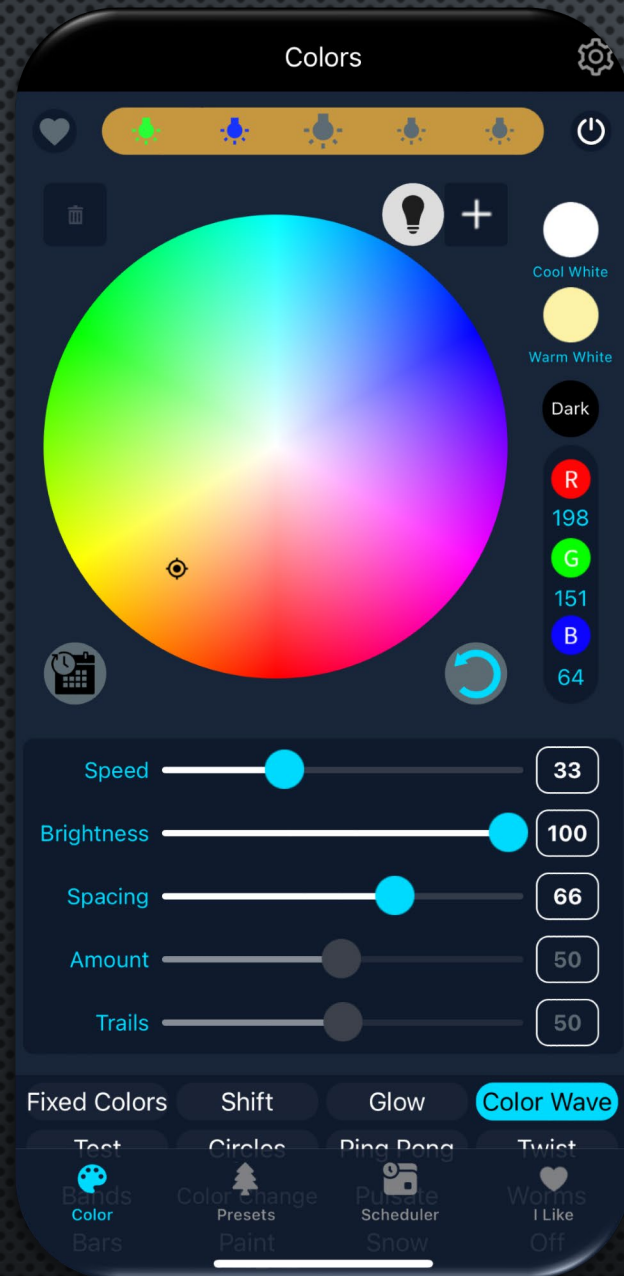
Presets

Scheduler

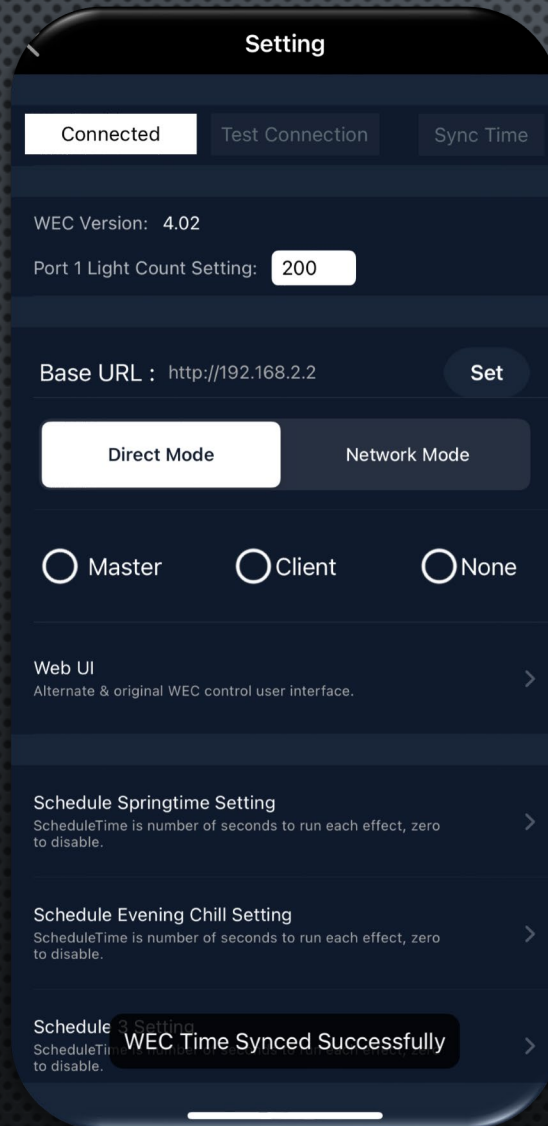
I Like

### HOW THE WEC+3 SCHEDULING PRIORITIES WORK:

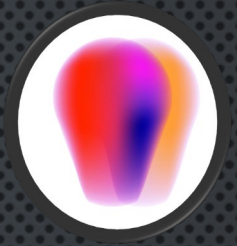
- SHOWS ARE ALL ASSIGNED A PRIORITY AND THE HIGHER PRIORITY SHOW RUNS FIRST. BUT IF 2 SHOWS HAVE THE SAME PRIORITY THEN THE **FIRST ONE ON THE LIST RUNS FIRST** UNTIL IT ENDS.
- **WEEKDAY SCHEDULES (MONDAY-SUNDAY) HAVE A LOWER PRIORITY** THAN SHOWS THAT RUN ON A PARTICULAR DATE. WEEKDAY SCHEDULES IS A GOOD PLACE TO SCHEDULE DEFAULT WARM WHITE DISPLAYS, FOR EXAMPLE. TO HAVE A SHOW RUN MON THRU THUR, SCHEDULE FOR MONDAY, AND SELECT 4 DAYS. THIS WILL NOW RUN THROUGHOUT THE YEAR, UNLESS WE SCHEDULE A "DATED" SHOW WITH A HIGHER PRIORITY.
- **SHOWS WITH SHORTER NUMBER OF DAYS AND RUN TIMES HAVE A HIGHER PRIORITY THAN LONGER SHOWS, SUCH AS WEEKDAY SCHEDULES.**
- A SHOW'S PRIORITY IS:  $(1440 * \text{NUMBER-OF-DAYS-TO-RUN}) + \text{SHOW-RUN-TIME-IN-MINUTES}$ . LOWER NUMBER IS HIGHER PRIORITY.
- SO IF YOU HAD A SHOW STARTING ON JULY 1 AND REPEATING FOR 30 DAYS, FROM 6PM-11PM, AND ANOTHER SHOW FOR JULY 4 FROM 6PM-11PM, THEN THE JULY 4 SHOW RUNS ON THAT DAY AND THE OTHER SHOW THE REST OF THE MONTH.
- YOU COULD ALSO HAVE A SHOW RUNNING ON A CERTAIN DAY FROM SAY 6PM-MIDNIGHT, AND ANOTHER SHOW FOR THE SAME DAY FROM 9-10PM, AND THE FIRST SHOW WOULD RUN 6-9PM, SECOND SHOW FROM 9-10PM, AND **THEN FIRST SHOW WOULD RESUME FROM 10PM-MIDNIGHT.**



←Settings Icon



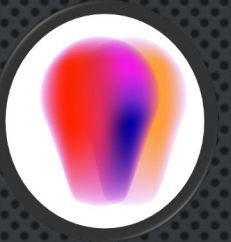
# PIXEL DANCER SETTINGS PAGE



1. THIS IS WHERE WE CAN TEST OUR WI-FI CONNECTION
2. TIME SYNC BUTTON, TO ENSURE SCHEDULER DEPLOYS
3. ID WEC FIRMWARE (AUTO-UPDATE IN DEVELOPMENT)
4. VIEW AND CHANGE LIGHT COUNTS
5. CHANGE BETWEEN BASE URLS (DIFFERENT INSTALLATIONS)
6. SET TO NETWORK MODE
7. SET MASTER & CLIENT WEC'S IF INSTALLING MULTIPLES
8. ACCESS THE WEB UI FOR TROUBLESHOOTING, UPLOADING FIRMWARE, CHANGING CHIPSET SETTINGS FOR DIFFERENT RGB+STRINGS & FIXTURES, AMONG OTHER INSTALLER FEATURES. (SEE "WEC+3 BOSS SCHEDULER USER GUIDE" FOR MORE DETAIL.)

←Settings Icon

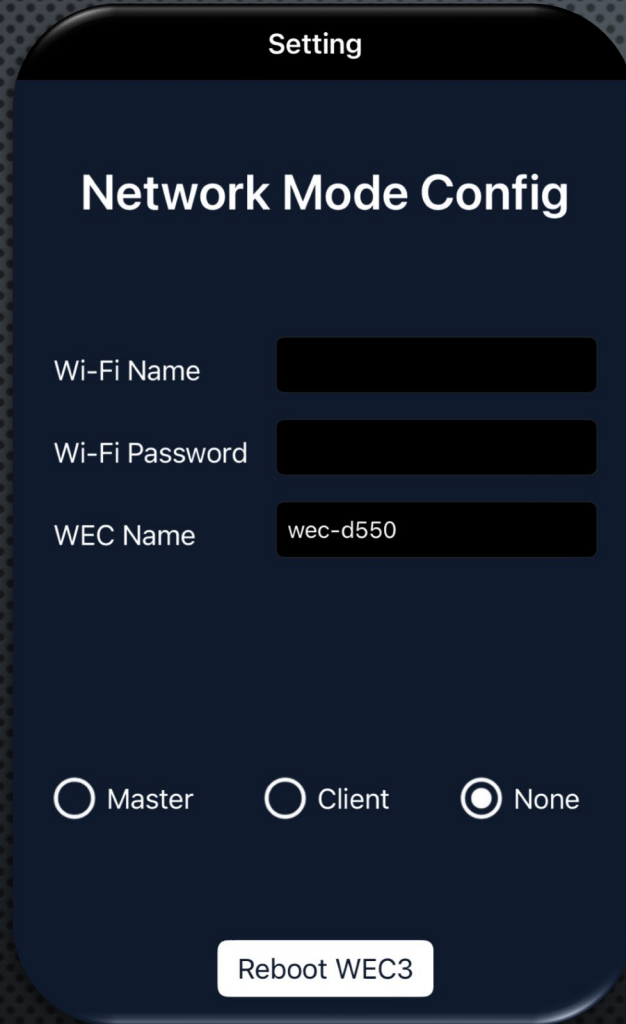
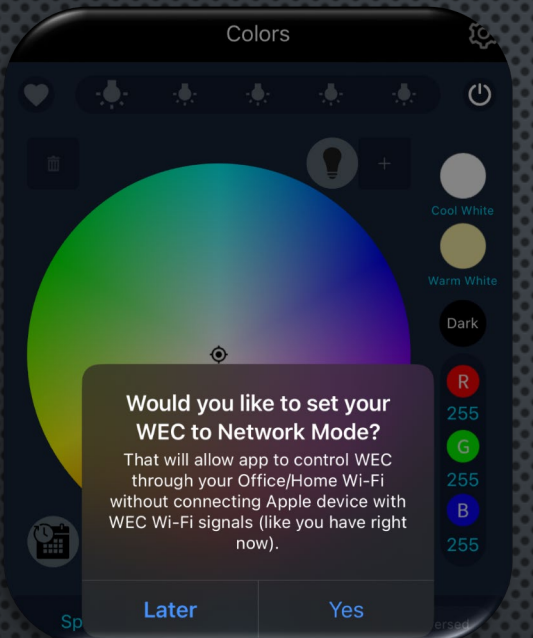
# PIXEL DANCER NETWORK MODE

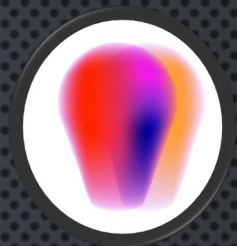


WE CAN SET OUR WEC'S TO A THIRD-PARTY NETWORK/ROUTER TO BOOST THE WIRELESS RANGE, AND CONTROL ON A COMMON NETWORK WITH OTHER IOS DEVICES

PIXEL DANCER WILL PROMPT US WHEN ON-BOARDING A NEW CONTROLLER, OR WE CAN SET UP LATER VIA SETTINGS MENU

1. IN SETTINGS, TOGGLE THE DIRECT MODE TO HIGHLIGHT "NETWORK MODE"
2. WI-FI NAME = YOUR ROUTER, FOR EXAMPLE NETGEAR123 (CASE SENSITIVE, DO NOT ADD EXTRA CHARACTERS)
3. WI-FI PASSWORD = YOUR ROUTER'S PASSWORD (THIS IS PREDETERMINED, NOT FOR YOU TO MAKE UP)
4. WEC NAME = THIS WE CAN MAKE UP, TO DESCRIBE THE INSTALLATION (I.E. "TREE 3" OR "PATIO LIGHTS"), OR WE CAN LEAVE AS THE FACTORY SERIAL NUMBER
5. SELECT "NONE" IF ONLY USING A SINGLE WEC
6. TAP "REBOOT WEC3" FOR THE NEW SETTINGS TO SAVE.
7. KEEP IN MIND THAT THE WEC'S WI-FI ACCESS POINT WILL NOW DISAPPEAR. AND WE WILL HAVE TO LOG INTO OUR NEW ROUTER.
8. IF YOUR WEC IS NOT TO BE FOUND ON THE NEW NETWORK, WE MAY NEED TO GIVE THE WEC A HARD RESET AND TRY AGAIN





# PIXEL DANCER WEB UI ACCESS

10:16 5G

http://192.168.2.2/pconfig.html

WEC3 3.0

**COLORS** **EFFECTS** **SHOWS**

**CONFIGURATION**

Name:

Connection Mode: ☒ Direct (AP) ☐ Network (AP)  
Network Mode Hostname: PatioLights.local

SSID:

Security: ☒ Open ☐ WEP ☐ WPA/WPA2

Key:

Address: ☐ Fixed ☒ DHCP  
Always uses Fixed settings below if in Direct (AP)

IP:  .  .  .

NetMask:  .  .  .

Router:  .  .  .

Protocols:

☒ DDP

☐ Art-Net: data from 6 contiguous universes (of 5)

LED chip settings:

Load defaults for:

Timing: T0H:  ns, T1H:  ns, Tbit:

Maximum Lights (within power limits): 1024

Lights per String:

Number of Smart-Ts:

Generate effects for  Sets of  Lights

Network Effects: ☐ Master ☐ Slave ☒ None

☐ Enable On/Off using light sensor (currently 24%)

Turn On when level goes below  % for  seconds

☒ Turn Off when level goes above  % for  seconds

☐ Turn Off after  minutes

[Save and Reboot](#)

Wait about 10 seconds after Reboot, and then (if needed) reconnect  
If you make changes and can no longer connect to the WEC, hold

Upgrade WEC software: [Choose File](#) no file selected

Date:  -  -  24hr Time:  :  Zone:

[Update](#)

THE BACKEND, ORIGINAL CONTROL INTERFACE IS ACCESSIBLE THRU PIXEL DANCER'S SETTINGS PAGE, BY SELECTING "WEB UI" (VISUAL ON NEXT PAGE).

THIS IS USEFUL FOR TROUBLESHOOTING & CONTROLLER MAINTENANCE. WE ENCOURAGE INSTALLERS TO BE FAMILIAR WITH THE WEB UI, ESPECIALLY IF YOU SELL MULTIPLE STYLES OF MINLEON RGB+LINE LIGHT STRINGS, AS THEY MAY HAVE DIFFERENT "LED CHIP SETTINGS" THAT NEED CHANGED ON THIS CONFIGURATION PAGE.

**PRO TIP:** NEW FEATURES WILL APPEAR HERE BEFORE APPEARING IN THE PIXEL DANCER APP.

# WEC+3 FIRMWARE UPDATES

PERIODICALLY, MINLEON WILL RELEASE SOFTWARE UPDATES TO ADD FEATURES OR FIX BUGS WITH THE WEC+3.

THESE UPDATES ARE HOUSED AT [WWW.MINLEONUSA.COM](http://WWW.MINLEONUSA.COM), ON THE WEC+3 PRODUCT PAGE AS **.BIN FILES**, OR CAN BE EMAILED ON REQUEST FROM [SUPPORT@MINLEONUSA.COM](mailto:SUPPORT@MINLEONUSA.COM).

1. GO TO PIXEL DANCER **SETTINGS** PAGE (GEARBOX ICON, TOP RIGHT)
2. SELECT "WEB UI", ONCE WEB BROWSER OPENS, SELECT "CONFIGURATION" ON THE BLUE PAGE (AT LEFT).
3. NEXT TO "**UPGRADE WEC SOFTWARE**", SELECT "**CHOOSE FILE**" FROM THE LOCATION YOU SAVED IT
4. SELECT "**UPLOAD BIN FILE**" ONCE, AND LET THE CONTROLLER RE-BOOT

AUTO-UPDATE FEATURE IS IN DEVELOPMENT.

WE CAN ALSO DOWNLOAD CONFIGURATIONS FOR CUSTOMERS TO UPLOAD INTO THEIR OWN WEC+3'S FROM THIS PAGE.





## WEC+3 RESTORING DEFAULT SETTINGS

IF YOU DO NOT KNOW A WEC'S IP ADDRESS, OR IF IT BECOMES UNRESPONSIVE, IT IS POSSIBLE TO RESET THE WI-FI TO FACTORY DEFAULT SETTINGS.



Re-set button

THE RESET BUTTON IS LOCATED ON FACE OF THE WEC+3.

1. REMOVE WEC FROM POWER.
2. UNSCREW THE BOX. KEEP THE RUBBER GASKET IN PLACE.
3. PRESS BUTTON & HOLD.
4. ADD POWER.
5. CONTINUE TO HOLD BUTTON FOR **10-12** SECONDS. THIS WILL **RESET THE WI-FI SETTINGS, AND WE SHOULD SEE THE WEC ACCESS POINT IN OUR SMART DEVICE'S WIFI SETTINGS.**
6. ONCE WE SEE THE WEC ACCESS POINT, WITH THE RUBBER GASKET IN PLACE, TIGHTEN THE LID BACK ON THE BOX WITH THE SCREWS.



## PIXEL DANCER TROUBLESHOOTING & BEST PRACTICES

### Lost the Wi-Fi Connection:

Remember, when you power down or Reboot the controller the Wireless signal disappears. Ensure you are connected to "wec-xxx", or to the name you assigned to the controller. You may need to reconnect to the WEC2 network signal once the controller powers back up, especially if another wireless signal is your primary Internet connection by default.

#### PRO TIP:

**Consider making the WEC network signal your primary Wi-Fi connection during installs.**

### WEC3 does not appear in your Wireless Networks:

Toggle the Wi-Fi off, then back on. If still nothing, try another smart device. Be sure you are in range of the WEC3 or router. If you programmed your Master WEC3 to an external router, log in to that network & be sure you are within its range. If you programmed the WEC3 to be a "Network Client" and not the Master Controller, it's Access Point (AP) will be disabled. This is intentional. To regain individual control of a "Network Client", or any WEC3, **try using a third-party IP scanner on the Network.** If that does not work, hard reset the controller: Disconnect the controller from the powered light string. Then hold the WEC's button for 10 seconds as you re-make the connection to the powered string, **(press->connect to power->hold 10s).** Then release button. This will restore control with the default settings and allow the WEC2's unique Wi-Fi signal/AP to reappear.

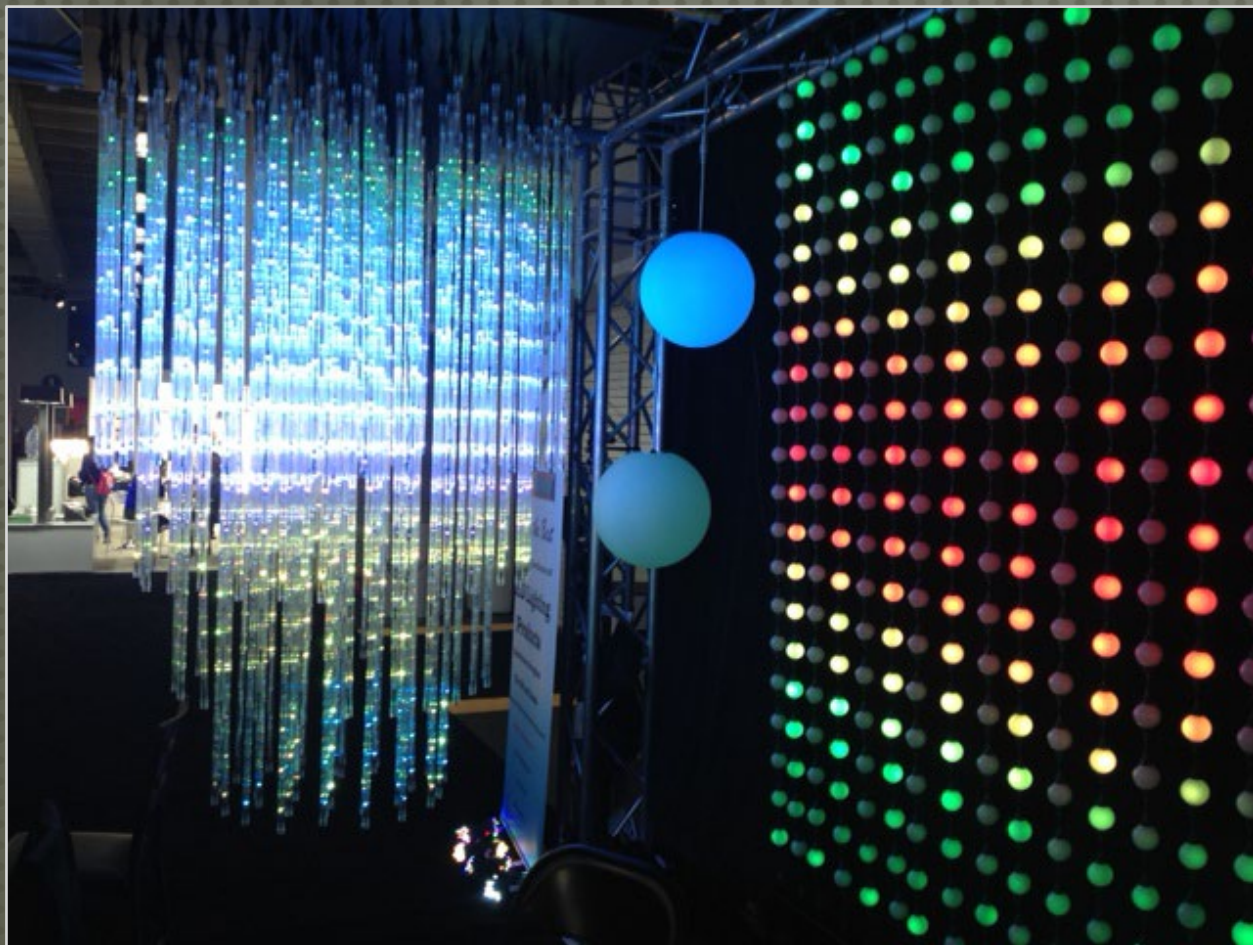
### No Light Output or Wrong Colors appear:

Typically, this is a result of the controller being in a different "**Chipset Setting**" than the connected light strings.

RGB, RGBW, 4-wire, 3-wire and combinations between them use different **chipset settings**. Check that they match by clicking the App Settings gearbox. Then tap "Web UI". Then "Configuration". Scroll to "Chipset Settings" and be sure they match the lights connected to your WEC.

#### PRO TIP:

**WEC+3's ship from the factory in RGB+2 chip settings & 200 light count. RGB+2 = 4Wire, RGB lights. RGB+ = 3Wire.**



## PIXEL DANCER QUESTIONS & RESOURCES

PLEASE E-MAIL

[SUPPORT@MINLEONUSA.COM](mailto:SUPPORT@MINLEONUSA.COM)

& REFERENCE THIS PRESENTATION.

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WE ENCOURAGE YOU TO VIEW THESE RELATED TUTORIALS:

- **WEC+3 BOSS SCHEDULER - USER GUIDE**
- **HOW TO INSTALL A 200-FT ROOFLINE**

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THANK YOU FOR YOUR INTEREST IN  
**MINLEON INTELLIGENT LIGHTING!**



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