

WEC+3 PIXEL DANCER

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



*Intelligent Illumination
from the Minleon Group*



Presented by
Minleon USA

www.MinleonUSA.com

Visit our social media:



June 2024

Springtime

Date= 6: June 1

Start Time 19 : 0

Run Time 10 : 0

Days 30

Animation 1 of 8

Turn On/Off Lights

Seconds in Animation
Select 86,400 for full day.

Event

Color Events Scheduler Music

Colors

Speed 50

Brightness 100

Spacing 50

Amount 50

Trails 50

Fixed Colors Shift Glow Color Wave

Test Circles Ping Pong Twist





Intelligent Illumination



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)

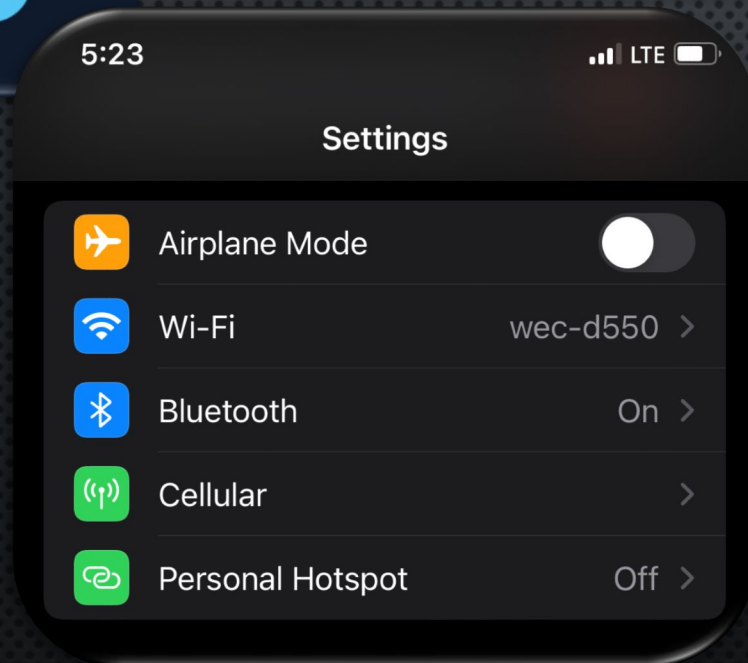
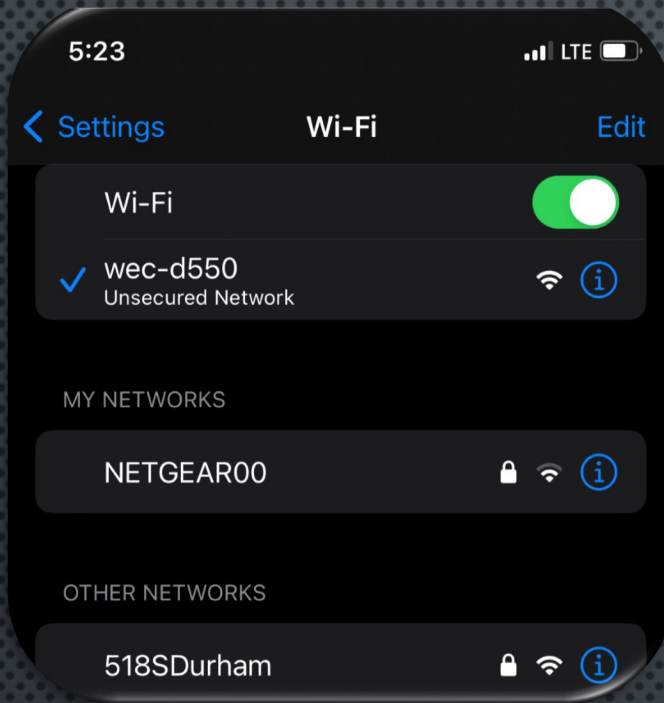
FOR IPHONE AT APP STORE

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)

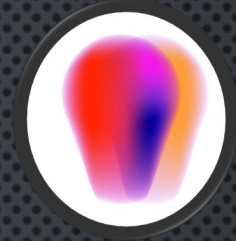


Please connect your Wi-Fi to **WEC**
to activate the control of Pixel Dancer APP

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? YOU'RE CALL (MORE DETAILS ON SLIDE 16)

"Pixel Dancer" would like to find and connect to devices on your local network

This app will be able to discover and connect to devices on the networks you use.

Don't Allow

Allow

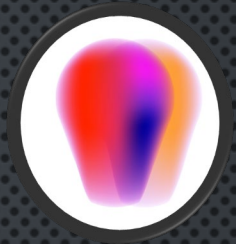
Would you like to set your WEC to Network Mode?

That will allow app to control WEC through your Office/Home Wi-Fi without connecting Apple device with WEC Wi-Fi signals (like you have right now).

Later

Yes

PIXEL DANCER COLORS PAGE



I LIKE / Set Favorites →

← Up to Five foreground color options

← Background Color Icon

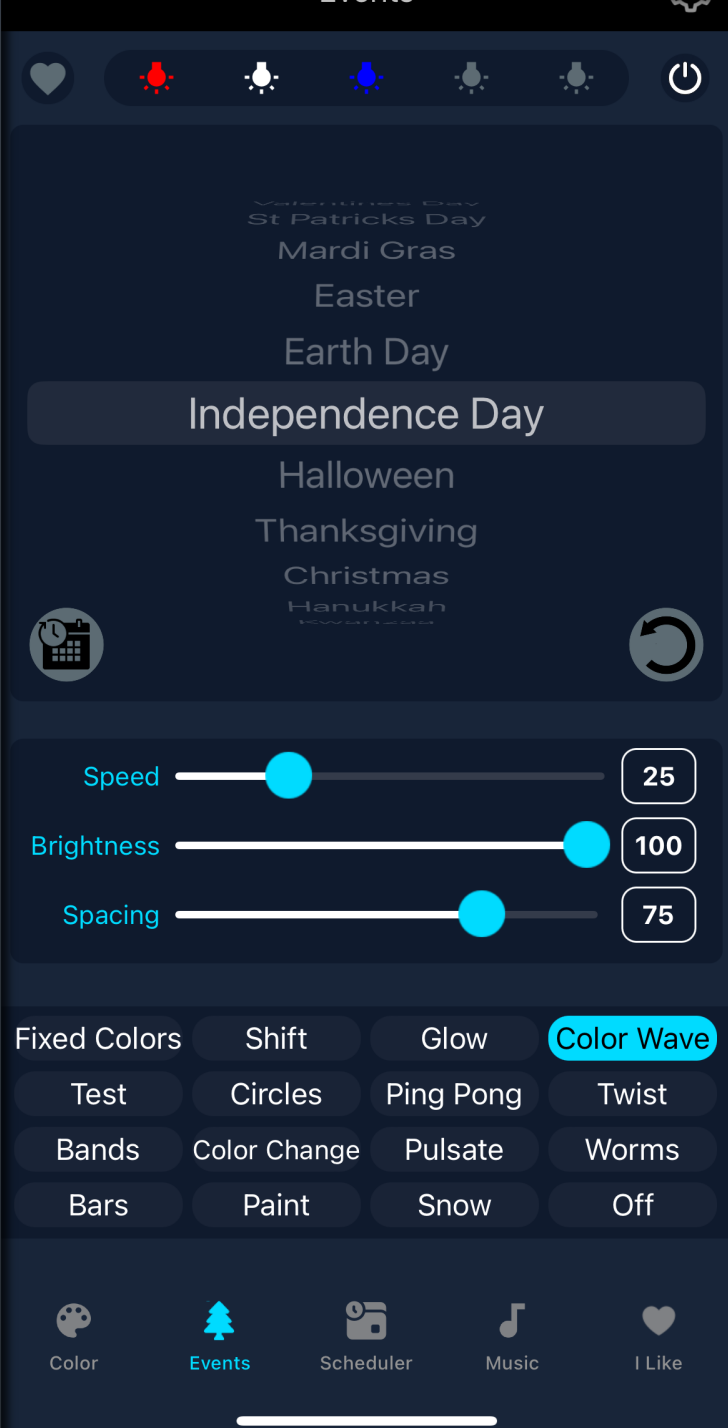
Quick Scheduler →

← Flip Direction

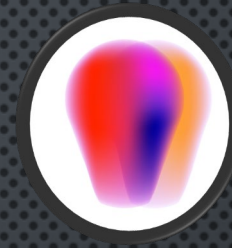
← I LIKE / Recall Favorites

1. SELECT 5 CUSTOM COLORS, & A 6TH BACKGROUND 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 SETTINGS INTO SCHEDULE

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



PIXEL DANCER EVENTS PAGE



12 PRE-SET HOLIDAY COLOR PALLETS

14 PRE-SET EFFECTS W/ MULTIPLE PARAMETER SETTINGS



QUICK SCHEDULER BUTTON



PIXEL DANCER

SCHEDULER: DAYS & TIMES



 Springtime 

Date= 6:June 1

Start Time 19 : 0

Run Time 10 : 0

Days 30

Animation 1 of 8

Turn On/Off Lights



Seconds in Animation

40000

Select 86,400 for full day.

Event

Independence Day



Color



Events



Scheduler



Music



I Like

CREATE A LIGHT SHOW W/ UP TO 8 ANIMATIONS

1. SELECT SCHEDULE BY TAPPING ON THE TITLE
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 SHOW / 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. SECS IN ANIMATION IS NECESSARY IF SETTING MULTIPLE ANIMATIONS/EFFECTS IN A SINGLE SHOW
9. SELECT EVENT

(MORE ...)

Effect Color WaveBrightness 100Speed 24Trails 50Spacing 75Amount 50Flip Rotate

Save Animation

Preview

Play Schedule



Color



Events



Scheduler



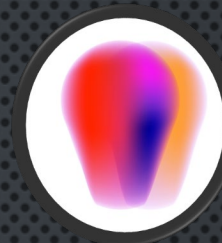
Music



I Like

PIXEL DANCER

SCHEDULER: EFFECTS & OPTIONS



10. SELECT YOUR EFFECT

11. TOGGLE THE SLIDERS OR TAP THE NUMBER AND INPUT YOUR VALUE

12. SAVE ANIMATION

13. PREVIEW ANIMATION

14. PLAY FULL SCHEDULE



Springtime



Date=

6: June

1

Start Time

19

:

0

Run Time

10

:

0

Days

30

Animation 1 of 8

Cancel

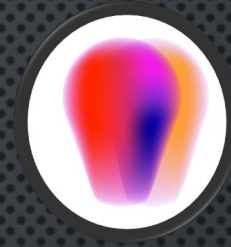
Select Schedule

Done

Springtime

Evening Chill

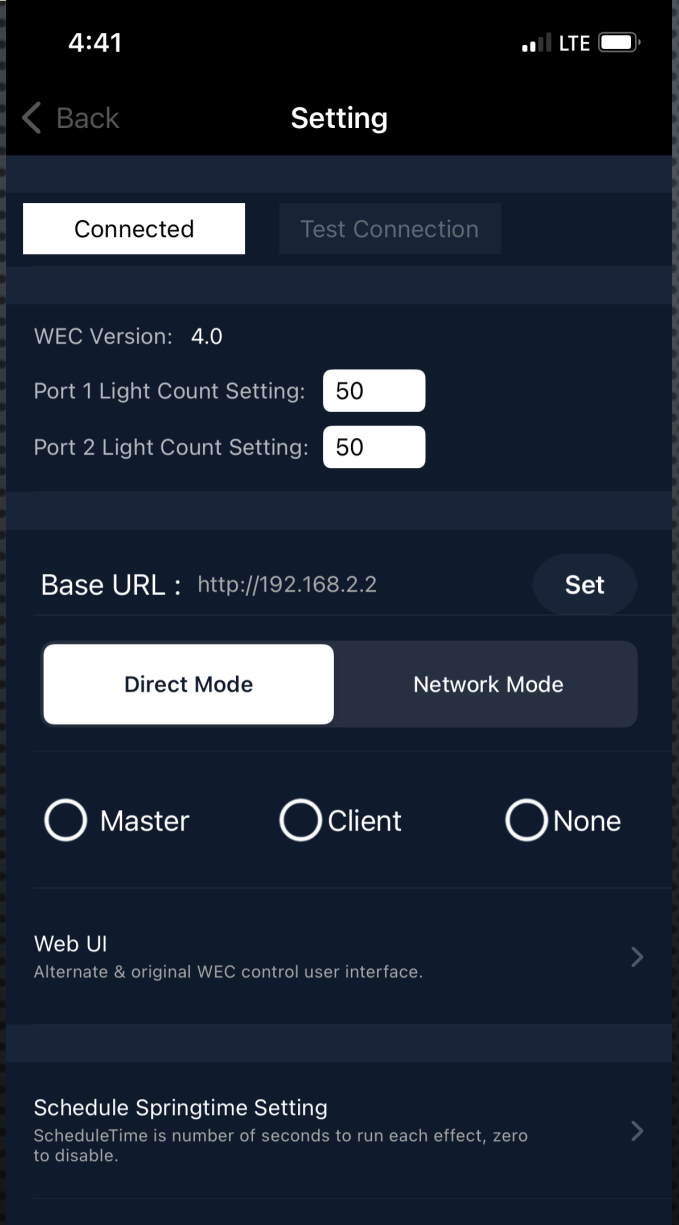
WEC+3 PIXEL DANCER SCHEDULER PRIORITIES



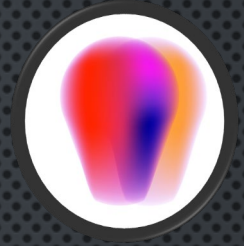
- HERE IS A DESCRIPTION OF HOW THE WEC+3 SCHEDULING PRIORITIES WORK:
- SHOWS ARE ALL ASSIGNED A PRIORITY AND THE HIGHER PRIORITY SHOW RUNS FIRST. BUT IF 2 SHOWS HAVE THE SAME PRIORITY THEN THE **FIRST ONE ON THE LIST RUNS FIRST** UNTIL IT ENDS.
- SHOWS WITH A REPEATING **WEEKDAY (MONDAY-SUNDAY)** HAVE A **LOWER PRIORITY** THAN SHOWS THAT RUN ON A PARTICULAR DATE. THEN, **SHOWS WITH SHORTER NUMBER OF DAYS AND RUN TIMES HAVE A HIGHER PRIORITY THAN LONGER SHOWS.**
- A SHOW'S PRIORITY IS: $(1440 * \text{NUMBER-OF-DAYS-TO-RUN}) + \text{SHOW-RUN-TIME-IN-MINUTES}$, AND 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

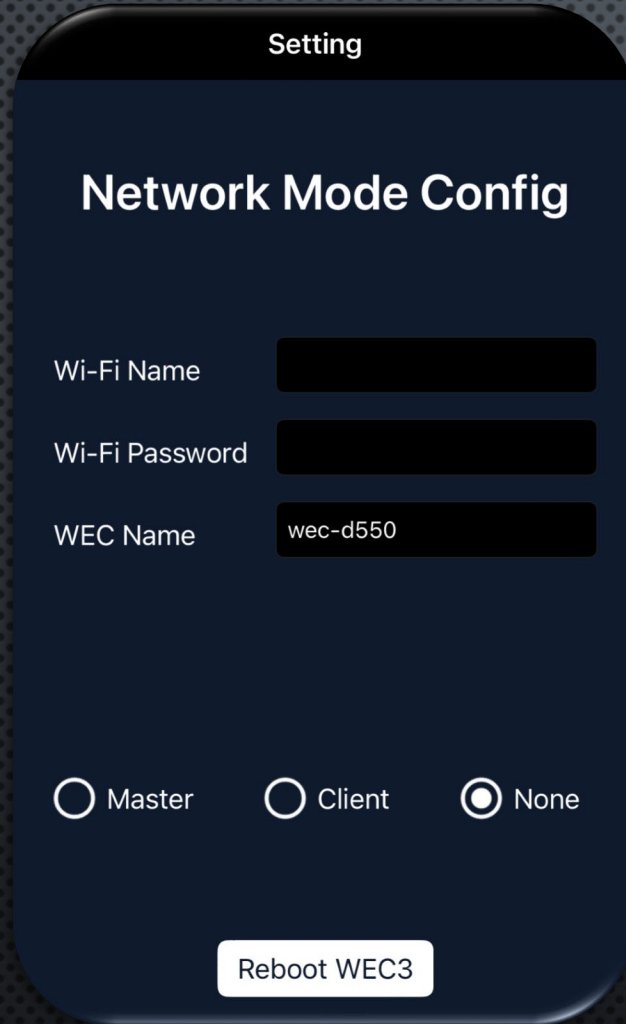
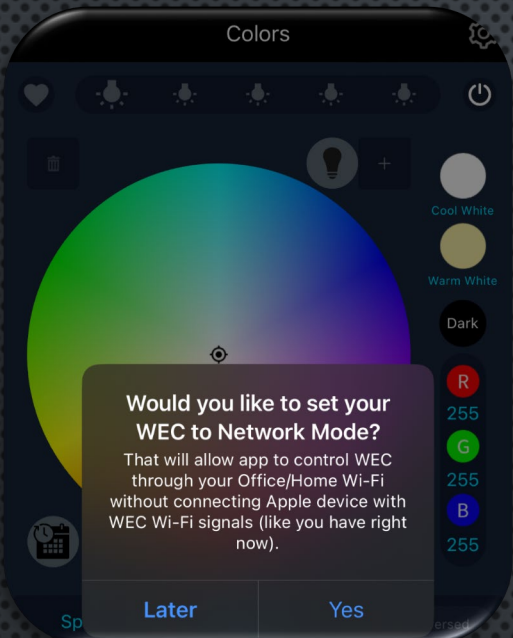


PIXEL DANCER SETTINGS PAGE

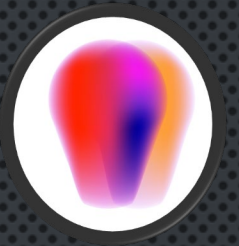


1. THIS IS WHERE WE CAN TEST OUR WI-FI CONNECTION
2. ID WEC FIRMWARE
3. VIEW AND CHANGE LIGHT COUNTS
4. CHANGE BETWEEN BASE URLS (DIFFERENT INSTALLATIONS)
5. SET TO NETWORK MODE
6. SET MASTER & CLIENT WEC'S IF INSTALLING MULTIPLES
7. ACCESS THE WEB UI FOR TROUBLESHOOTING, UPLOADING FIRMWARE & ACCESSING OTHER INSTALLER FEATURES

←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, 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

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

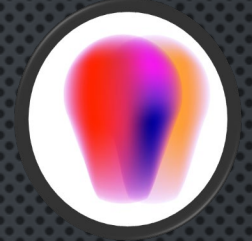
[Save and Reboot](#)

Wait about 10 seconds after Reboot, and then (if needed) reconne
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](#)

PIXEL DANCER WEB UI ACCESS



THE BACKEND, ORIGINAL CONTROL INTERFACE IS ACCESSIBLE THRU PIXEL DANCER'S SETTINGS PAGE.

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

OFTEN, 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, ON THE WEC+3 PRODUCT PAGE AS **.BIN FILES**, OR CAN BE EMAILED ON REQUEST FROM SUPPORT@MINLEONUSA.COM.

1. GO TO PIXEL DANCER **SETTINGS** PAGE (GEARBOX ICON, TOP RIGHT)
2. SELECT "WEB UI", SCROLL TO BOTTOM OF BLUE PAGE.
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

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

The image shows a mobile application interface for the WEC+3. The top part of the screen displays the time (3:51), LTE signal, and battery level. Below this is a 'Colors' section with a gear icon labeled '←Settings Icon'. The main content area is titled 'Setting' and shows a 'Connected' status with a 'Test Connection' button. The WEC Version is 4.0. There are two 'Port Light Count Setting' fields, both set to 50. A 'Base URL' field is set to 'http://192.168.2.2'. Below this are 'Direct Mode' and 'Network Mode' buttons. There are three radio buttons for 'Master', 'Client', and 'None', with 'None' selected. A 'Web UI' section is at the bottom, with a description: 'Alternate & original WEC control user interface.' A 'Schedule Springtime Setting' section is also visible at the bottom left. A blue overlay box on the right side of the screen contains the following settings: 'Maximum Lights (within power limits): 1024', 'Lights per String: 200', 'Number of Smart-Ts: 0', 'Generate effects for 1 Sets of 200 Lights', 'Network Effects: Master Slave None (None selected)', 'Enable On/Off using light sensor (currently 24%)', 'Turn On when level goes below 30 % for 300 seconds', 'Turn Off when level goes above 60 % for 300 seconds', 'Turn Off after 480 minutes', a 'Save and Reboot' button, a note: 'Wait about 10 seconds after Reboot, and then (if needed) reconne...', 'Upgrade WEC software: Choose File no file selected', 'Date: 2021-12-15 24hr Time: 15:26 Zone: America/New_York', and an 'Update' button. A label '←WEB UI' is pointing to the bottom of the blue overlay box.



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 often 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:

WEC3’s ship from the factory in RGB+2 chip settings & 200 light count. RGB+2 = 4W, RGB lights. RGB+ = 3W.



PIXEL DANCER QUESTIONS & RESOURCES

PLEASE E-MAIL

SUPPORT@MINLEONUSA.COM

& REFERENCE THIS PRESENTATION.

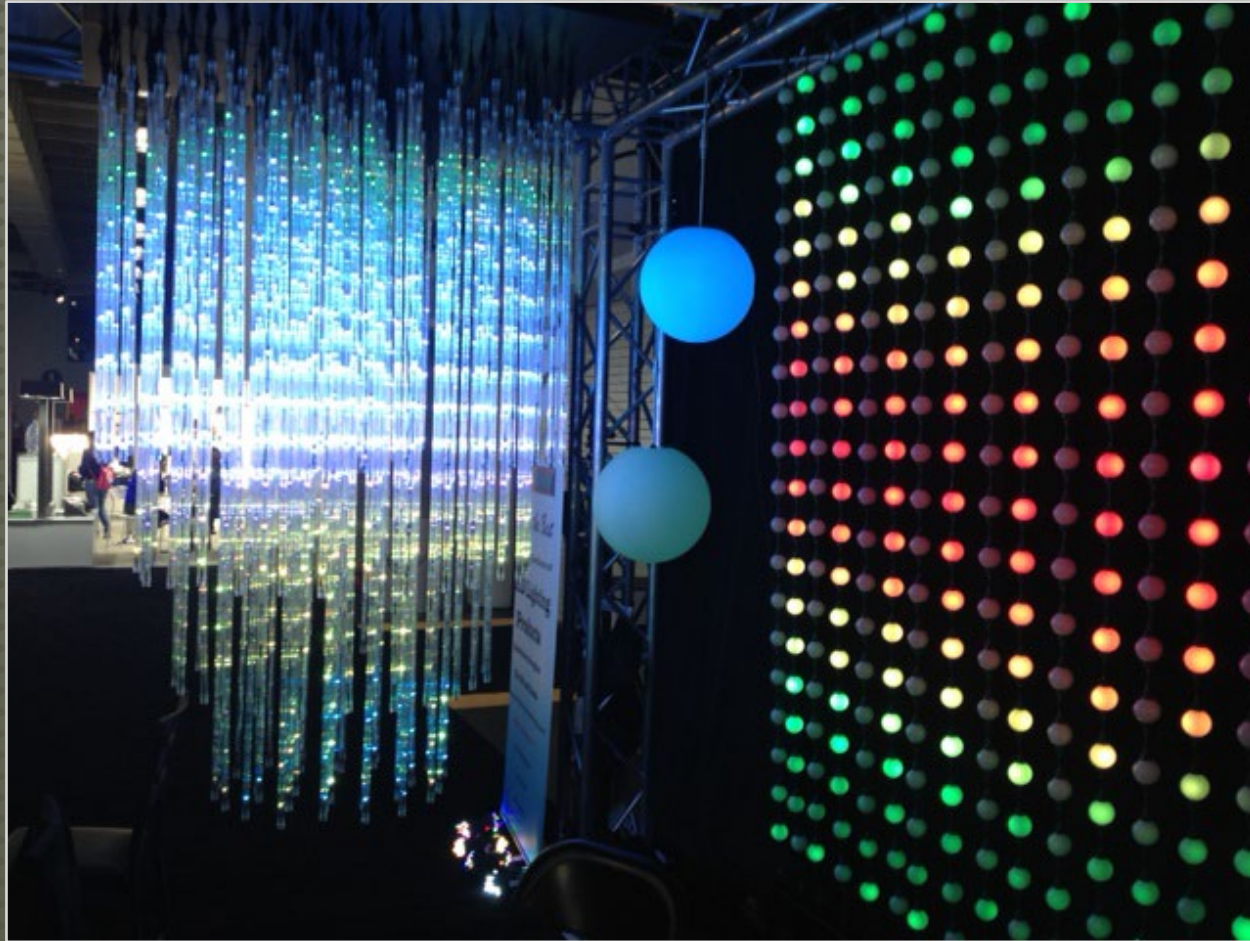
WE ENCOURAGE YOU TO VIEW THESE RELATED
TUTORIALS:

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

THANK YOU FOR YOUR INTEREST IN
MINLEON INTELLIGENT LIGHTING!



Videos on Facebook: [Minleon USA](#)





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