

WEC+3 PIXEL DANCER

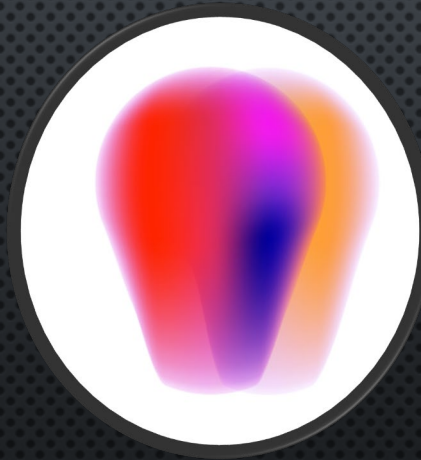
NETWORKING & GROUPING

INSTALLER'S GUIDE V1



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

Intelligent Illumination
from the Minleon Group



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Pixel Dancer is compatible with both the *WEC+3 Boss* (above) and the *Wi-Fi Effects Controller – Mini* (right)



WEC+3 NETWORKING & GROUPING TABLE OF CONTENTS

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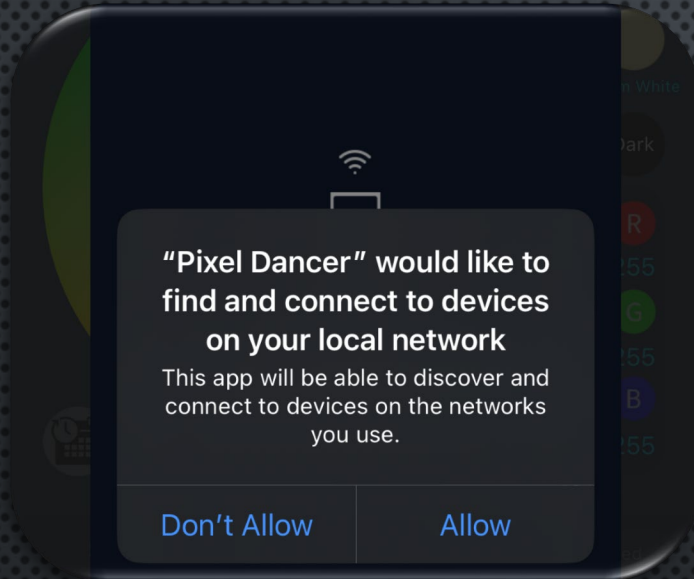
Pixel Dancer
Icon



WEC+3 NETWORKING & GROUPING TWO MODES

AFTER POWERING YOUR WEC+3 & LAUNCHING THE **PIXEL DANCER APP**, THESE PROMPTS WILL APPEAR:

1. **CONNECT TO DEVICES ON YOUR LOCAL NETWORK:** TAP **ALLOW** (THIS PERMITS THE APP TO CONNECT TO THE WECs & ROUTERS)
2. **WOULD YOU LIKE TO CONNECT TO NETWORK MODE?** SELECT “YES” TO CONNECT TO A WI-FI ROUTER; SELECT “LATER” & SET UP VIA “SETTINGS”.

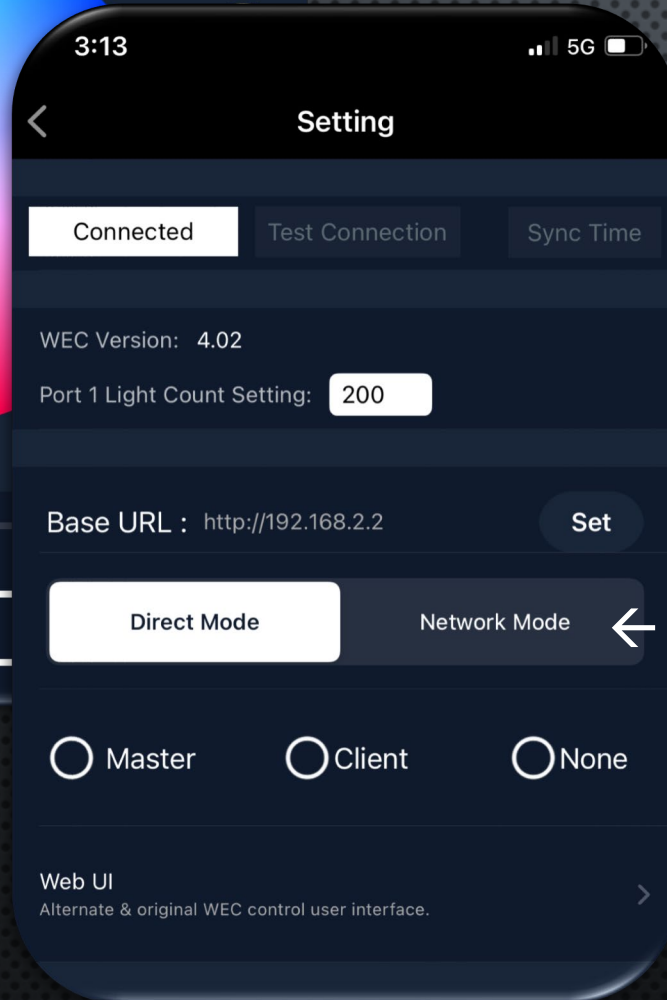


WEC+3 NETWORKING & GROUPING TWO MODES

← APP SETTINGS

IF WE SELECT “LATER”, WE CAN THEN TAP THE **SETTINGS GEARBOX ICON** IN THE TOP, RIGHT CORNER OF THE *PIXEL DANCER* APP.

- TOGGLE TO “NETWORK MODE”
- FOLLOW THE STEPS ON PAGE 9

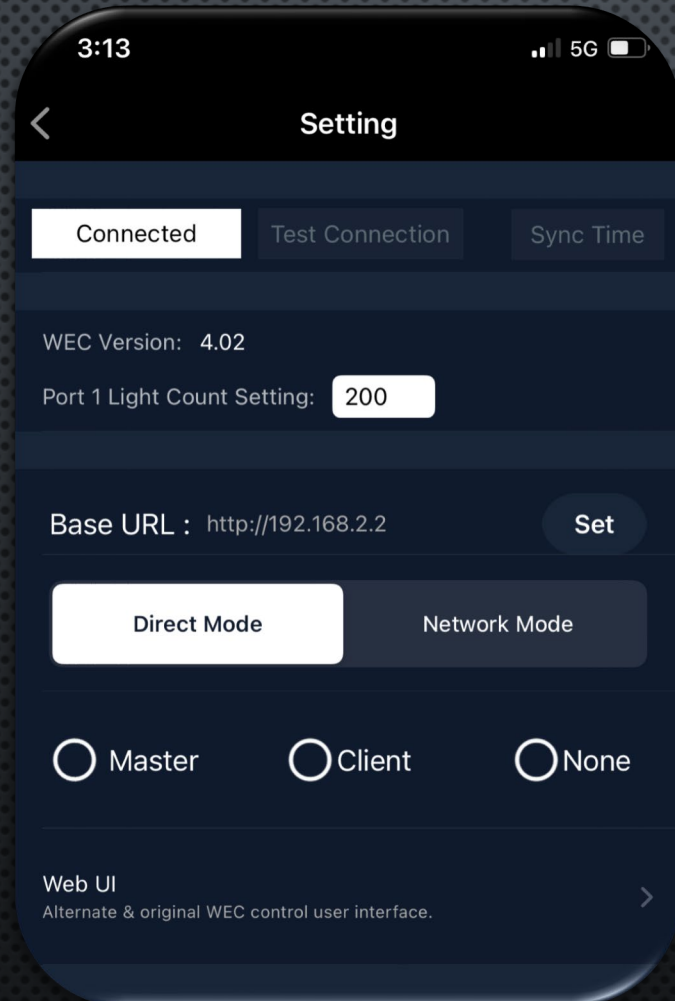


← MODE TOGLER



WEC+3 NETWORKING & GROUPING DIRECT MODE CAPABILITIES

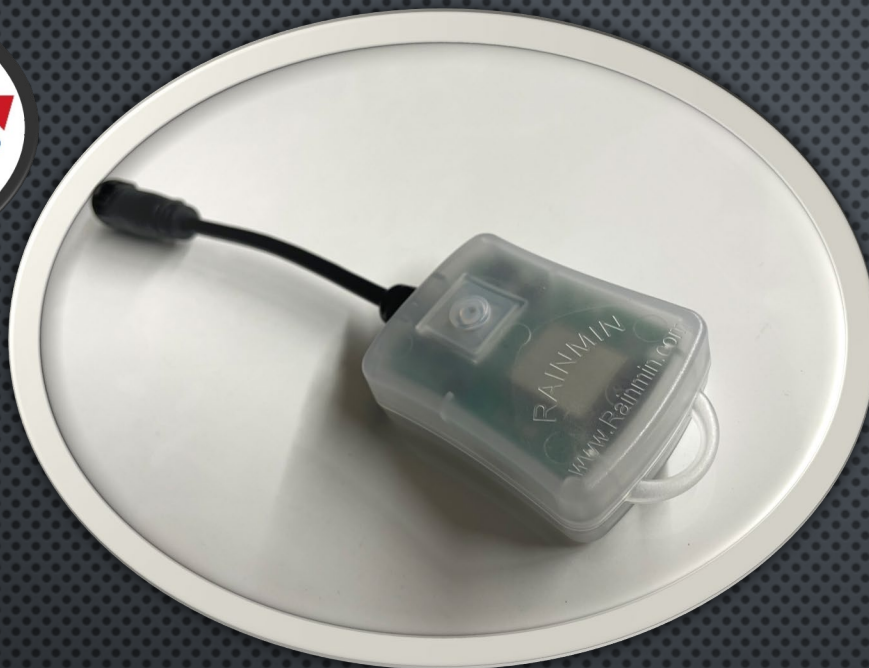
MASTER – CLIENT
ASSIGNMENT →



- IN **DIRECT MODE**, WEC+3 CAN OPERATE AS ITS OWN WIRELESS ROUTER
- **GROUP UP TO 5 X WEC+3 IN DIRECT MODE** (1 X MASTER; 4 X CLIENT)
- **WIRELESS RANGE:** 150-FT WEC+3 BOSS; 75-FT WEC+3 MINI (ESTIMATED)
- LOG INTO ONE WEC, AND CONTROL UP TO A GROUP OF 5 DIFFERENT STYLES OF RGB+LIGHTS (I.E. ROOFLINE PEBBLES, BISTRO LIGHTS, 50W FLOODS, RGB+C9's)
- SET-UP STEPS ON PAGE 10



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



WEC+3 NETWORKING & GROUPING NETWORK MODE CAPABILITIES

- **GROUP DOZENS OF WEC+3** PER EXTERNAL ROUTER IN **NETWORK MODE** – WHEN WE WANT TO PAIR WITH A THIRD-PARTY WI-FI ROUTER. (1 x MASTER; 9 x CLIENT)
- FOR MOST COMMERCIAL INSTALLATIONS, A DEDICATED, THIRD-PARTY WI-FI ROUTER IS RECOMMENDED
- FOR RESIDENTIAL, WE CAN USUALLY PIGGY-BACK ON THE HOMEOWNERS EXISTING ROUTER WHICH THEY USE FOR TV, EMAIL, ETC. BUT THIS LARGELY DEPENDS ON THE PROXIMITY BETWEEN THEIR ROUTER AND WHERE WE PLACE THE WEC+3. **WHAT IS THE DISTANCE AND ARE THERE ANY MAJOR OBSTACLES BETWEEN THEM.**
- BENEFITS TO USING A THIRD-PARTY ROUTER ARE AN EXTENDED RANGE, MORE STABLE WI-FI SIGNAL & POTENTIALLY MORE CONTROL OVER TROUBLESHOOTING.
- **WIRELESS RANGE:** CHECK THE SPECIFICATIONS OF YOUR THIRD-PARTY ROUTER. **UP TO 3000-FT** (ADVERTISED).
- LOG INTO ONE ROUTER, AND CONTROL A GROUP OF 10 SIMILAR OR DIFFERENT STYLES OF RGB+LIGHTS (I.E. ROOFLINE PEBBLES, BISTRO LIGHTS, 50W FLOODS, C9'S, GLOBES, ETC.)



Some installations may require a dedicated router for the lights, even if one is one-site.

Better router = better performance
High profile installs will require a higher-performance third-party router, such as a NetGear or Asus.



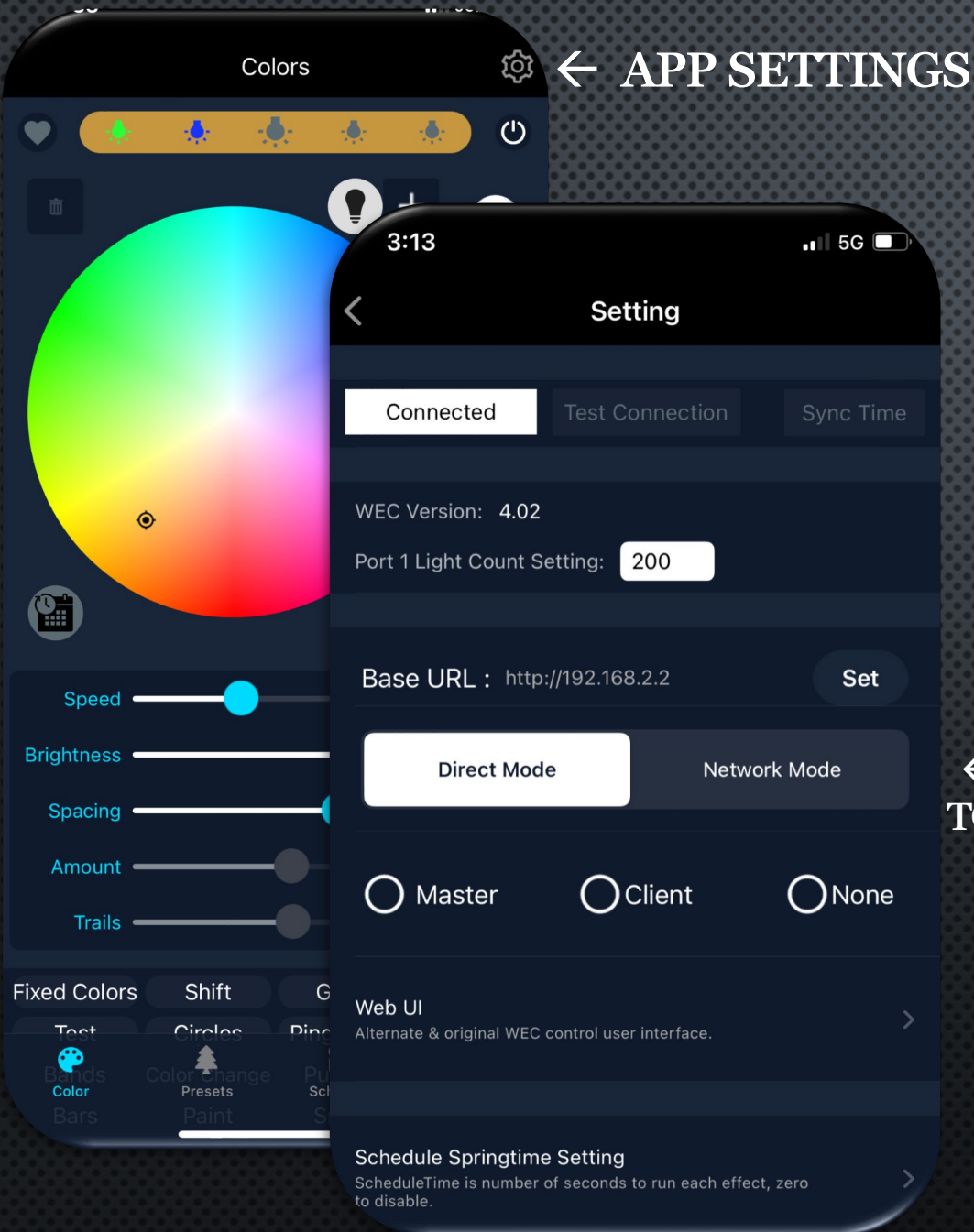
WEC+3 NETWORKING & GROUPING WIRELESS ROUTERS

REASONS TO RECOMMEND A **DEDICATED**, THIRD-PARTY ROUTER TO PAIR WITH YOUR WEC+3:

1. COMMERCIAL INSTALLS WHERE THERE IS HIGH WI-FI TRAFFIC, SUCH AS MARKETPLACES, BALLPARKS, CONCERT VENUES & THEATRES.
2. INSTALLS WHERE THERE ARE OBSTACLES.
3. SITES WHERE THE EXISTING NETWORK ROUTER IS CUMBERSOME, COMPLICATED AND/OR MANAGED BY SOMEONE WHO DOESN'T HAVE THE LIGHTING SYSTEM IN MIND DURING PERIODIC & INEVITABLE NETWORK MAINTENANCE.
4. SITES WHERE THE EXISTING NETWORK ROUTER IS BOGGED DOWN BY OVERUSE & SITES WITH LITTLE BANDWIDTH.

PRO TIP: TEST CONNECTIVITY WHEN GROUPING MULTIPLE WEC+3's AT A LOCATION WITH HIGH WI-FI TRAFFIC, BEFORE INSTALLATION.

PRO TIP: A DEDICATED ROUTER CAN PROVE USEFUL EVEN WHEN RUNNING A SINGLE WEC+3 BOSS, OUTSIDE OF A GROUP, IN A HIGH WI-FI TRAFFIC SETTING..



WEC+3 NETWORKING & GROUPING SETTINGS

THIS IS WHERE WE ...

1. SET TO NETWORK MODE.
2. TEST OUR WI-FI CONNECTION
3. PUSH A TIME SYNC.
4. ID WEC FIRMWARE (& SOON TO UPDATE F/W)
5. VIEW AND CHANGE LIGHT COUNTS
6. CHANGE BETWEEN BASE URLS (DIFFERENT ROUTERS & MASTER WEC+3'S →I.E. **SWITCH BETWEEN DIFFERENT INSTALLATIONS**)
7. SET MASTER & CLIENT WEC'S IF INSTALLING MULTIPLES
8. ACCESS THE WEB UI FOR TROUBLESHOOTING, UPLOADING FIRMWARE & ACCESSING OTHER INSTALLER FEATURES THAT MAY NOT YET BE IN THE APP.
9. VIEW SCHEDULE SETTINGS.

← MODE
TOGGLER

***PRO TIP:** WEC Name defines the App's "Base URL". For example, if we name the WEC+3 "Patio Lights", then we can find the backend WebUI on the network at "patiolights.local".



WEC+3 NETWORKING & GROUPING NETWORK MODE: STEPS

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 BECOMES THE "**BASE URL**". 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 "MASTER", "CLIENT" OR "NONE" IF ONLY USING A SINGLE WEC. WHEN GROUPING WEC+3 WE NEED TO SET ONE—AND ONLY ONE WEC—TO BE MASTER. ALL OTHERS IN THE GROUP SHOULD BE CLIENTS.
6. TAP "REBOOT WEC3" FOR THE NEW SETTINGS TO SAVE.
7. REPEAT THESE STEPS FOR EACH "CLIENT" WEC IN YOUR GROUP.
8. KEEP IN MIND THAT THE WEC'S WI-FI ACCESS POINT WILL NOW DISAPPEAR. AND WE WILL HAVE TO LOG INTO OUR NEW ROUTER TO ACCESS THE APP/LIGHTS.
9. 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. (SEE STEPS LATER IN THIS MANUAL.)

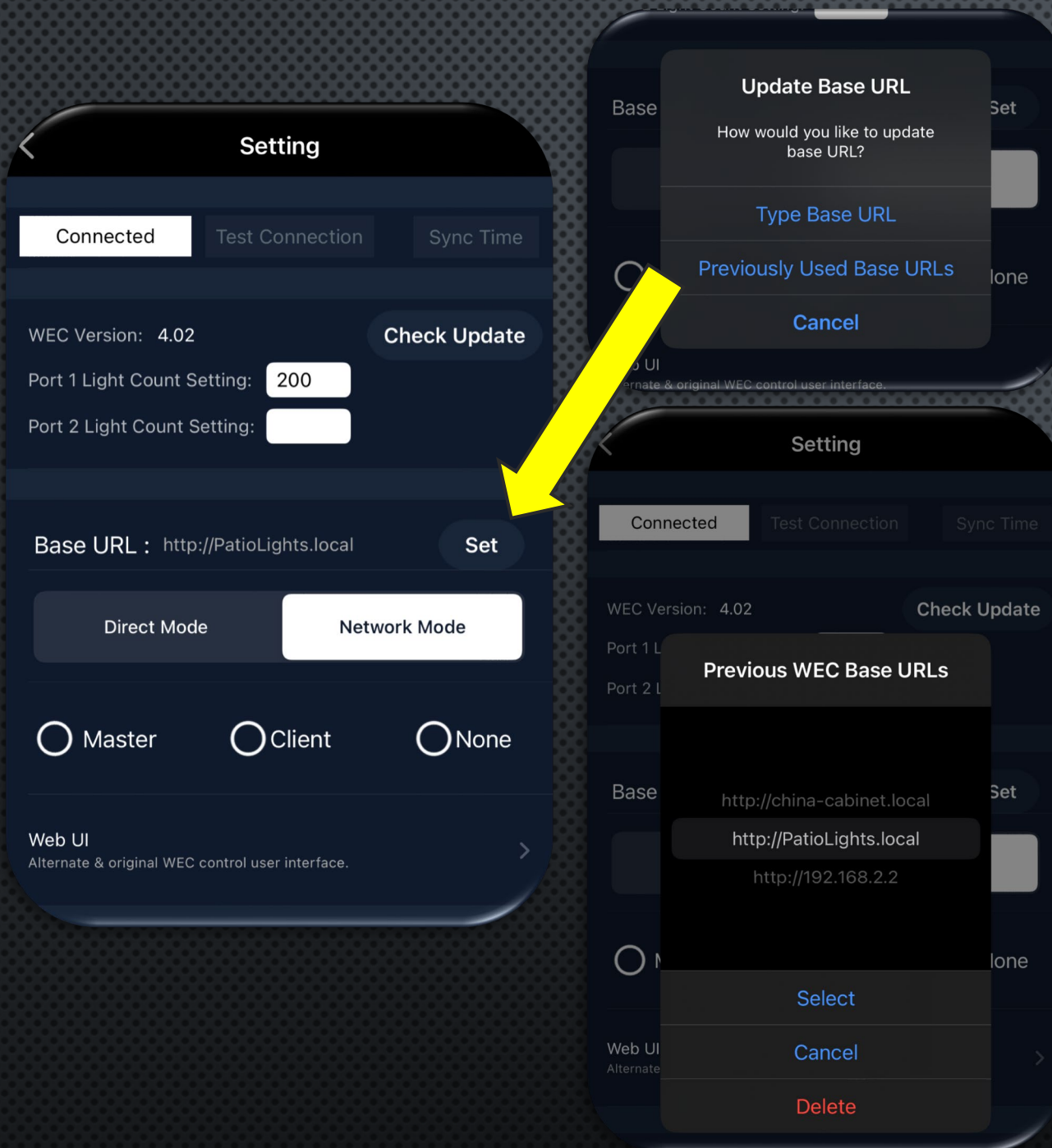
WEC+3 NETWORKING & GROUPING BASE URLS

THINK OF BASE URL'S AS DIFFERENT INSTALLATIONS

- “PREVIOUSLY USED URLS” ARE PAST INSTALLATIONS, OR PAST WEC+3'S WE HAVE LOGGED INTO VIA THE APP
- “TYPE BASE URL” ALLOWS US TO ENTER A URL THAT MAY NOT HAVE BEEN INSTALLED WITH OUR PERSONAL DEVICE, FOR EXAMPLE, MAYBE A CO-WORKER OR CLIENT MADE THE INSTALL

PRO TIP: BE SPECIFIC WHEN NAMING YOUR WEC'S (AND NETWORKS) IN THE APP. AS PRO INSTALLERS MIGHT HAVE DOZENS OF INSTALLATIONS (BASE URL'S) PER YEAR.

NOTE: MINLEON IS ACTIVELY WORKING ON A CLOUD WHICH WILL HELP TO ORGANIZE WEC+3 INSTALLS IN LATE 2024 AND BEYOND.



WEC+3 NETWORKING & GROUPING WEB UI

THE BACKEND, ORIGINAL CONTROL INTERFACE IS ACCESSIBLE THRU PIXEL DANCER'S SETTINGS PAGE, BY SELECTING "WEB UI" (VISUAL ON PAGE 8).

WHY USE IT?

- TROUBLESHOOTING & MAINTENANCE
- DOUBLE CHECK YOUR APP SETTINGS
- IF YOU SELL MULTIPLE STYLES OF MINLEON RGB+LINE LIGHT STRINGS, THEY MAY HAVE DIFFERENT “LED CHIP SETTINGS” THAT NEED CHANGED IN WEB UI (FUTURE APP DEV. FOR LATE 2024, OR 2025)
- **LEARN HOW TO RUN TWO EFFECTS SIMULTANEOUSLY BEFORE YOUR COMPETITION, AS ...**

PRO TIP: NEW FEATURES WILL APPEAR HERE BEFORE APPEARING IN THE PIXEL DANCER APP, SUCH AS THE PIXEL MAPPING FEATURE TO THE LEFT.



WEC+3 NETWORKING & GROUPING

RESTORING DEFAULT SETTINGS

IF WE MAKE A MISTAKE WHEN SETTING TO NETWORK MODE, OR 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 WI-FI 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.



WEC+3 NETWORKING & GROUPING 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 WEC3 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. Disable “Auto-Connect” on other preferred networks (such as XFINITY)

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 WEC3’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.



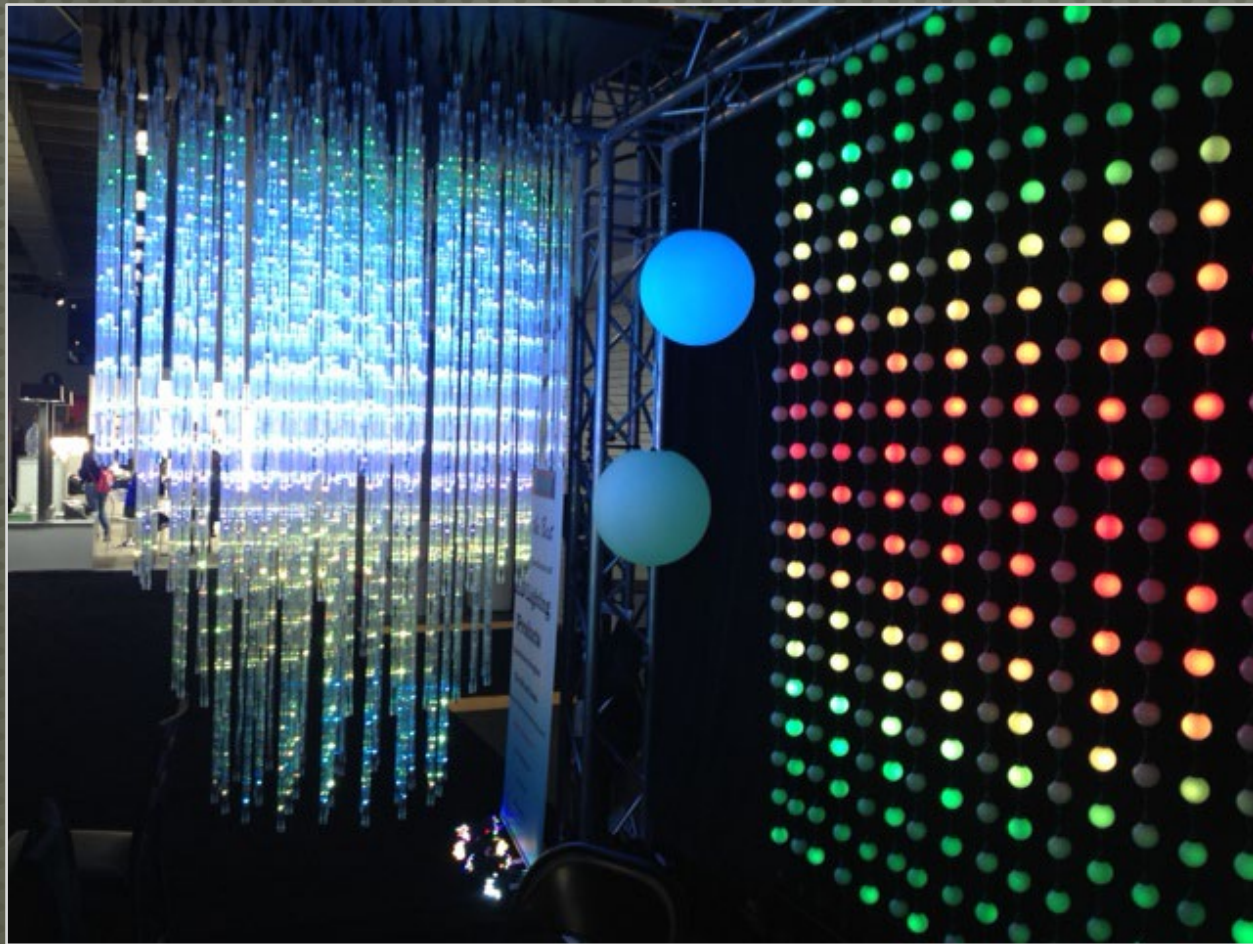
WEC+3 NETWORKING & GROUPING PIXEL DANCER APP LINKS

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)



PIXEL DANCER QUESTIONS & RESOURCES

PLEASE E-MAIL

SUPPORT@MINLEONUSA.COM

& REFERENCE THIS PRESENTATION.

WE ENCOURAGE YOU TO VIEW THESE RELATED
TUTORIALS:

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

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