

WEC+3 RGB+ REMOTE ACCESS GUIDE

Control, Schedule & Support
Professional, Decorative Light Installations
from
Off-site, Out-of-State & Anywhere
there is an Internet connection



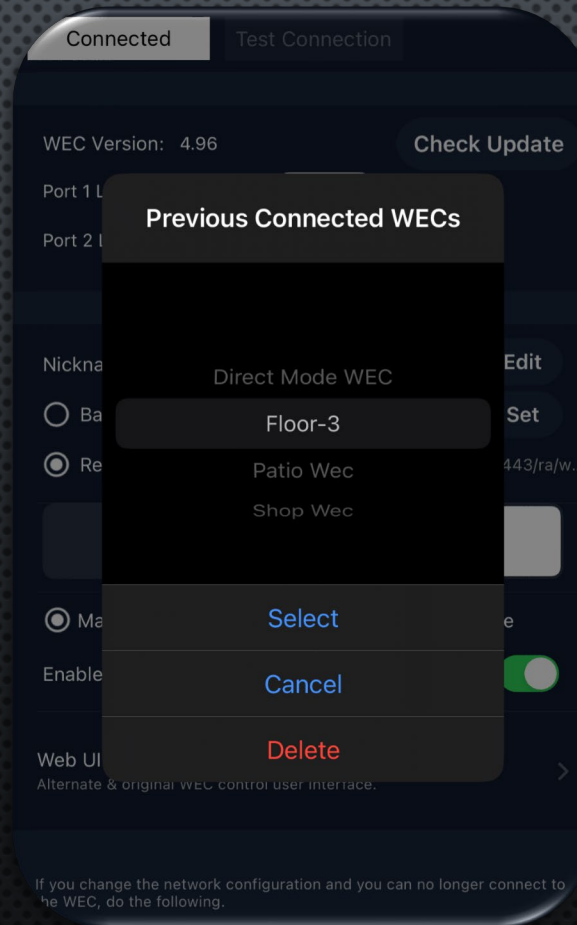
*Intelligent Illumination
from the Minleon Group*



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2025 Makeover: The *WEC3 Boss* (below) gets a *V2 facelift*; while the new *WEC3 – Dual Port* (right), offers a second controllable output w/ power input.



WEC+3 REMOTE ACCESS TABLE OF CONTENTS

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**WEC3
Dual Port**



WEC3 Mini



Steps for Remote Access are the same for all WEC3's. Including **WEC3 Boss v1** with the clear cover. -->

WEC3 Boss v2



WEC+3 REMOTE ACCESS DUAL, BOSS & MINI

ALL THREE WEC3 VERSIONS RUN THE SAME FIRMWARE, SO IF YOU KNOW HOW TO OPERATE ONE OF THESE, YOU CAN OPERATE THEM ALL. THEY ALSO CAN BE GROUPED & SYNCED TOGETHER.

1. **WEC3 DUAL PORT:** 2 INDIVIDUALLY-CONTROLLED OUTPUTS WITH ISOLATED POWER INPUTS. 3-PIN & 4-PIN FEMALE CONNECTORS FOR EACH PORT. EXTERNAL HARD RESET & COMPACT, STURDY ANTENNA. ~100-200-FT RANGE.
2. **WEC3 Boss v2:** NEW EXTERIOR CASE IN 2025, WITH EXTERNAL HARD RESET & COMPACT, STURDY ANTENNA. SINGLE SPLIT PORT, WITH ON-BOARD POWER INPUT. 3-PIN & 4-PIN FEMALE CONNECTORS. ~100-200-FT RANGE.
3. **WEC3 Mini:** COMPACT, DISCRETE, ORIGINAL MODEL. SINGLE PORT, WITH ON-BOARD POWER INPUT. 3-PIN & 4-PIN FEMALE CONNECTORS FOR EACH. INTERNAL ANTENNA. ~75-100-FT RANGE.



For Remote Access (RA), we need to first set our WEC3's to NETWORK MODE.

WEC+3 REMOTE ACCESS NETWORK MODE OVERVIEW

Setting

Connected

Test Connection

WEC Version: 4.96

Check Update

Port 1 Light Count Setting: 25

Port 2 Light Count Setting: 0

Nickname : Patio Wec

Edit

Base URL : http://wec-7040.local

Set

Remote Access URL : https://ra.minleonusa.com:4443/ra/w...

Set

Direct Mode

Network Mode

Master

Client

None

Enable Remote Access : connected

Web UI

Alternate & original WEC control user interface.

Please refer to Minleon USA's [WEC+3 Pixel Dancer App – Networking & Grouping Guide v1](#) for detailed instructions on setting up Network Mode

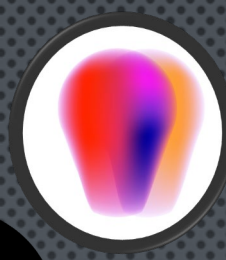
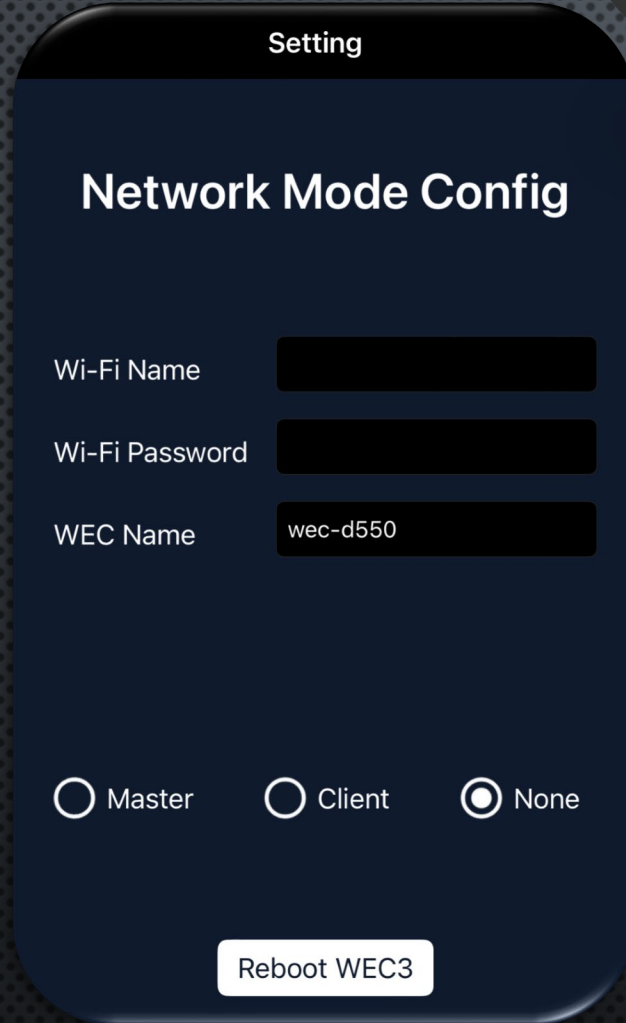
Pixel Dancer Mode Toggler

FOR WEC3 **REMOTE ACCESS**, THE WI-FI ROUTER WILL NEED **LIVE INTERNET ACCESS**. **WE CAN INTEGRATE VIA “NETWORK MODE”**.

- FOR MOST COMMERCIAL INSTALLATIONS, A DEDICATED, THIRD-PARTY WI-FI ROUTER IS RECOMMENDED FOR SUPERIOR CONNECTIVITY, ESPECIALLY IN HIGH-WI-FI TRAFFICKED AREAS
- FOR RESIDENTIAL, WE CAN USUALLY PIGGY-BACK ON THE HOMEOWNER’S 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 & ARE THEIR ANY MAJOR OBSTACLES BETWEEN THEM?**
- BENEFITS TO USING A THIRD-PARTY ROUTER ARE AN EXTENDED RANGE, FAMILIARITY TO SMART PHONES, MORE STABLE WI-FI SIGNAL & MORE EFFICIENT TROUBLESHOOTING VIA REMOTE ACCESS.
- **WIRELESS RANGE:** CHECK THE SPECIFICATIONS OF YOUR THIRD-PARTY ROUTER. **UP TO 3000-FT** (ADVERTISED).
- **GROUP DOZENS OF WEC3 PER ROUTER.** (ASSIGN 1 x MASTER WEC3; ASSIGN 9 x CLIENT WEC3, TO SYNC TOGETHER, FOR EXAMPLE)

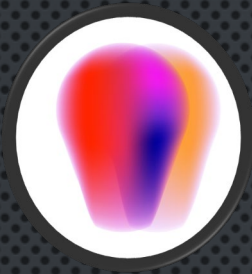


***PRO TIP:** WEC Name defines the App's "Base URL". For example, if we name the WEC+3 "Patio Lights", then we can find the backend WebUI on the network at "patiolights.local".



WEC+3 REMOTE ACCESS NETWORK MODE: QUICK START

1. IN PIXEL DANCER APP **SETTINGS**, TOGGLE THE DIRECT MODE TO HIGHLIGHT "NETWORK MODE"
2. **WI-FI NAME** = YOUR ROUTER, FOR EXAMPLE NETGEAR123 (**CASE SENSITIVE, DO NOT ADD OR COPY EXTRA CHARACTERS OR SPACES**)
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" 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 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.



Setting

Connected

Test Connection

WEC Version: 4.96

Check Update

Port 1 Light Count Setting: 25

Port 2 Light Count Setting: 0

Nickname : Patio Wec

Edit

☐ Base URL : http://wec-7040.local

Set

☒ Remote Access URL : https://ra.minleonusa.com:4443/ra/w...

Direct Mode

Network Mode

☒ Master

☐ Client

☐ None

Enable Remote Access : connected

☒

Web UI

Alternate & original WEC control user interface.

>

WEC+3 REMOTE ACCESS TURN ON RA

ONCE OUR WEC3 IS SET TO
NETWORK MODE, WE CAN GO
AHEAD AND TURN ON THE REMOTE
ACCESS (RA) TOGGLER.

THIS WILL GENERATE A "REMOTE
ACCESS URL" FOR YOUR WEC3.

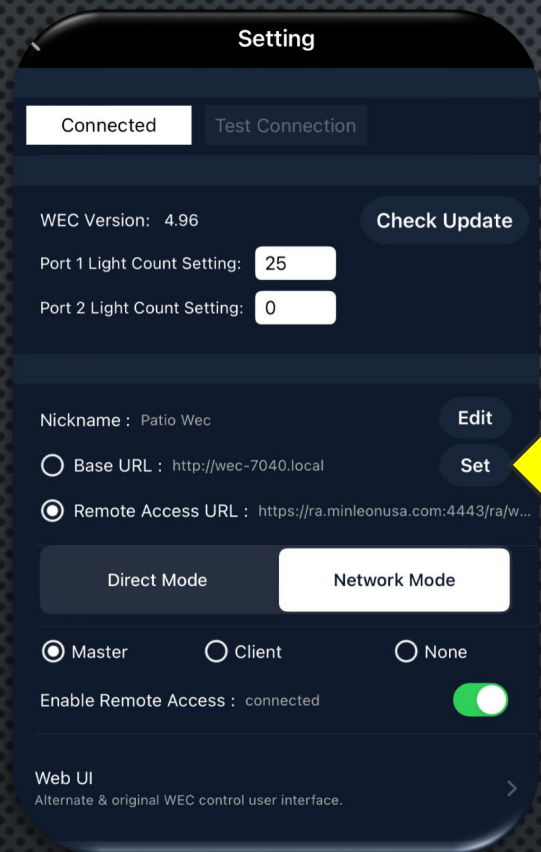


WEC+3 REMOTE ACCESS BASE URLS

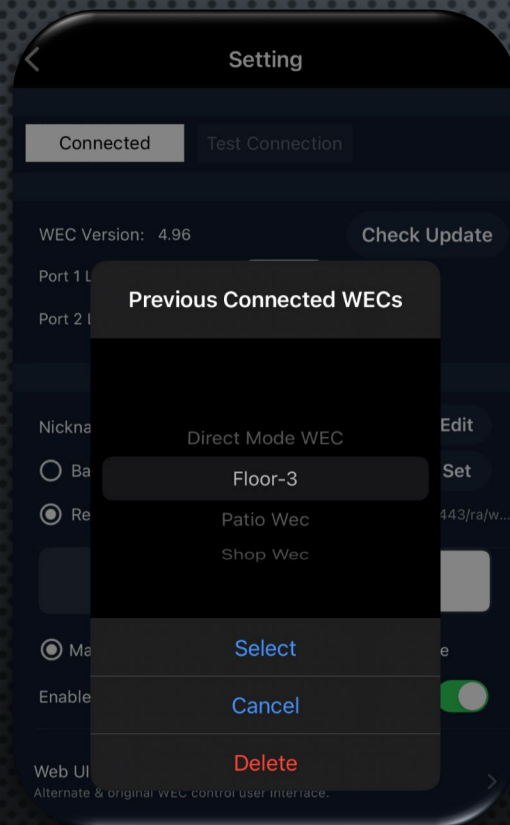
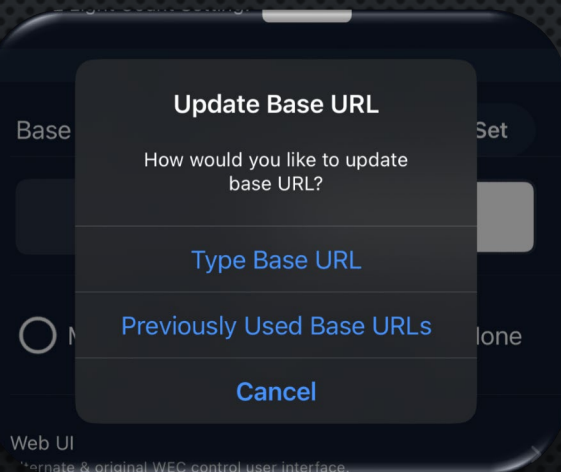
THINK OF BASE URL'S AS DIFFERENT WEC3's

- “**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, VENDOR OR CLIENT MADE THE INSTALL
- “**PREVIOUSLY USED URL's**” ARE PAST INSTALLATIONS, OR PAST WEC3's WE HAVE LOGGED INTO VIA THE APP.
- “**SHARE**”: LOOK FOR THE SHARE URL BUTTON ON THIS PAGE, IN THE NEXT RELEASE.

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 TO DISTINGUISH BETWEEN.



Tap the SET
button to access
or add a light
display





WEC+3 REMOTE ACCESS REMOTE ACCESS RA-URLS

EACH WEC3 WILL HAVE 2 URL'S:

1. **BASE URL:** WHAT WE USE WHEN WE ARE ON THE LOCAL NETWORK (LIVE INTERNET ROUTER), ON SITE WITH THE WEC3
2. **REMOTE ACCESS (RA) URL:** WHAT WE USE WHEN WE ARE OFF-SITE, OR OUT OF WI-FI RANGE OF THE WEC3 NETWORK, LIKELY ON **CELLULAR DATA** PLAN, OR **HOT SPOT**

PRO TIP: BE PATIENT WHEN TOGGING BETWEEN “**RA URL's**”. ITS RESPONSE CAN BE SLOWER THAN THE LOCAL NETWORK AT FIRST, AS THE NEW WEC3 DETAILS LOAD FROM THE CLOUD. PLEASE DO NOT EXPECT IT TO BE AS SWIFT AS WHEN WE ARE TOGGING BETWEEN “**BASE URLs**” ON THE SAME NETWORK, WHICH WILL BE QUICKER, NEARLY INSTANTANEOUS.



Setting

Connected Test Connection

WEC Version: 4.96 Check Update

Port 1 Light Count Setting: 25

Port 2 Light Count Setting: 0

Nickname : Patio Wec Edit

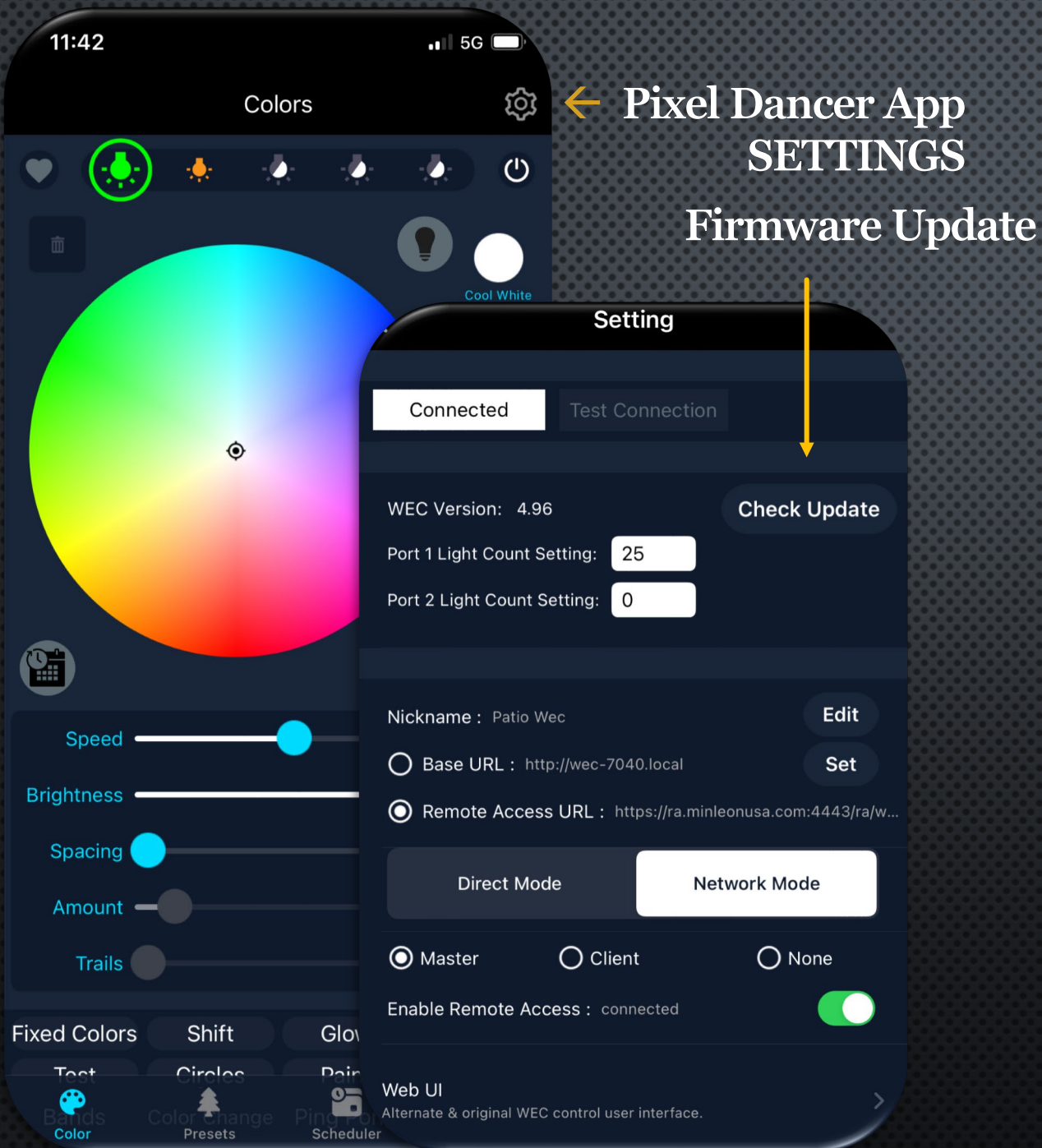
☐ Base URL : http://wec-7040.local Set

☒ Remote Access URL : https://ra.minleonusa.com:4443/ra/w... Set

Direct Mode Network Mode

☒ Master ☐ Client ☐ None

Enable Remote Access : connected



WEC+3 REMOTE ACCESS FIRMWARE REQUIREMENTS

PLEASE NOTE: IT IS IMPORTANT THAT WE HAVE THE **MINIMUM FIRMWARE VERSION 4.96** FOR THE WEC3 FIRMWARE TO BE ABLE TO UPDATE **VIA REMOTE ACCESS**.

*PREVIOUS WEC3 FIRMWARE VERSIONS WILL NEED **UPDATED WHILE ON-SITE** WITH THE WEC3.*

ONCE SET TO V4.96 OR LATER, INSTALLERS & SUPPORT TECHS WILL THEN HAVE THE ABILITY TO UPDATE THE LATEST FIRMWARE FOR THEIR CUSTOMERS FROM ANYWHERE WE HAVE ACCESS TO THE INTERNET.

1. GO TO PIXEL DANCER APP "SETTINGS" MENU AT THE GEARBOX ICON AT TOP RIGHT OF SCREEN.
2. TEST YOUR CONNECTION. NOTICE THE CURRENT WEC3 FIRMWARE #.
3. TAP "CHECK UPDATE" TO SEE IF YOU HAVE THE LATEST VERSION. IF NOT, PLEASE INSTALL.

WEC+3 REMOTE ACCESS WEB UI – CONFIRMING RA SETTINGS

floor316.local

WEC3 v4.96 Floor_3.16

COLORS **EFFECTS** **SHOWS**

CONFIGURATION **OUTPUTS**

Name: Floor_3.16

Connection Mode: ☐ Direct (AP) ☒ Network (AP Client)
Network Mode Hostname: Floor316.local

SSID: NETGEAR00

Security: ☐ Open ☒ WPA/WPA2

Key: [REDACTED]

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

IP: 192 . 168 . 2 . 2
NetMask: 255 . 255 . 255 . 0
Router: 192 . 168 . 2 . 1

Protocols:
☒ DDP
☐ Art-Net: data from 6 contiguous universes (of 510 bytes) starting at universe 0

Remote Access: (only available in Network Mode) [Current Status: OFF]
☒ Enable Remote Access via URL <https://ra.minleonusa.com:4443/ra/w3>

Change made above this line require a Save and Reboot.

Save and Reboot

THE BACKEND, ORIGINAL CONTROL INTERFACE IS ACCESSIBLE THRU PIXEL DANCER'S SETTINGS PAGE, BY SELECTING "WEB UI". HERE WE CAN DOUBLE CHECK OUR WEC3 SETTINGS:

1. GO TO CONFIGURATION.
2. CHECK "ENABLE REMOTE ACCESS..."
3. MAKE NOTE OF, OR BOOKMARK RA URL.
4. TAP "SAVE & REBOOT"

PRO TIP: IF YOU ARE TOGGLING BETWEEN MANY WEC3 WEB UI PAGES, CONSIDER USER A PRIVATE WEB BROWSER, SO UNIQUE SETTINGS ARE NOT CACHED.

ra.minleonusa.com

WEC3 v4.96 Floor_3.16

COLORS **EFFECTS** **SHOWS**

CONFIGURATION **OUTPUTS**

Name: Floor_3.16

Connection Mode: ☐ Direct (AP) ☒ Network (AP Client)
Network Mode Hostname: Floor316.local

SSID: NETGEAR00

Security: ☐ Open ☒ WPA/WPA2

Key: [REDACTED]

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

IP: 192 . 168 . 2 . 2
NetMask: 255 . 255 . 255 . 0
Router: 192 . 168 . 2 . 1

Protocols:
☒ DDP
☐ Art-Net: data from 6 contiguous universes (of 510 bytes) starting with universe 0

Remote Access: (only available in Network Mode) [Current Status: Connected]
☒ Enable Remote Access via URL <https://ra.minleonusa.com:4443/ra/w31/1b75-1615-1615-1615-1615-1615-1615-1615>

Change made above this line require a Save and Reboot.

Save and Reboot

Wait about 10 seconds after Reboot, and then (if needed) reconnect and Reload this page.
If you make changes and can no longer connect to the WEC, hold the button in for a few seconds while a

Network Effects: ☐ Master ☐ Slave ☒ None

Light Sensor:
☐ Enable On/Off using light sensor (currently 0%)
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

Power LED brightness 100 %

Upgrade WEC software with BIN file from URL: [REDACTED]

Date: 2021-03-25 24hr Time: 15:42:30 Zone: America/New_York **Update**



WEC+3 REMOTE ACCESS WEB UI – RA FIRMWARE UPDATE

TO UPDATE WEC3 FIRMWARE VIA REMOTE ACCESS, REQUIRES US TO INPUT THE LINK TO THE .BIN FIRMWARE FILE. THIS URL CAN BE FOUND ON OUR WEBSITE AT [HTTPS://MINLEONUSA.COM/PRODUCT/WEC-DUAL-PORT/](https://minleonusa.com/product/wec-dual-port/).

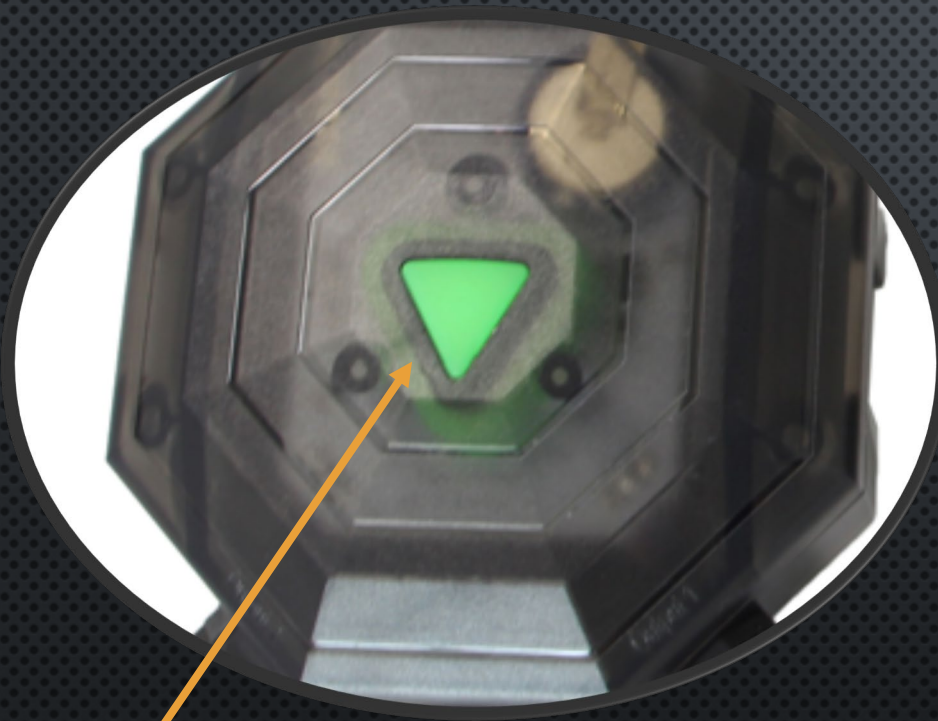
PRO TIP: THE PIXEL DANCER APP STREAMLINES THESE STEPS FOR US. BUT THE WEB UI OPTION IS USEFUL IF WORKING FROM A LAPTOP PC.





WEC+3 REMOTE ACCESS 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

PRO TIP: A hard reset will NOT delete our schedules.

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

1. REMOVE WEC FROM POWER.
2. PRESS BUTTON & HOLD.
3. ADD POWER.
4. 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**.

Please Note: A hard reset *will change* the **WEC3 RA-URL**, generating a new one.



WEC+3 REMOTE ACCESS 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), or set to Network Mode for a better connection.

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:

**RGB+2 = 4-wire, RGB lights.
RGB+ = 3-wire.**



WEC+3 REMOTE ACCESS 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)



WEC+3 REMOTE ACCESS QUESTIONS & RESOURCES

PLEASE E-MAIL

SUPPORT@MINLEONUSA.COM

& REFERENCE THIS PRESENTATION.

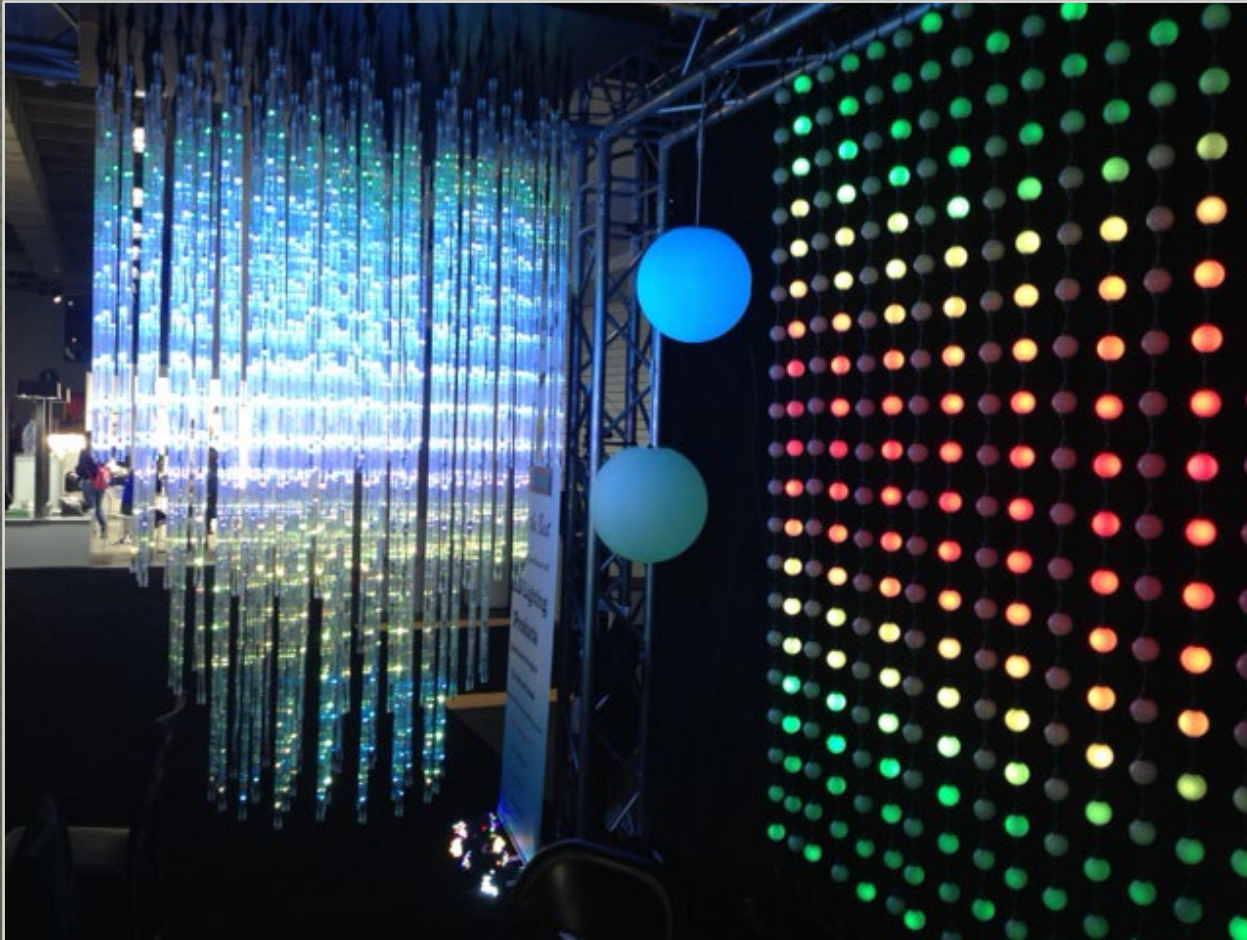
WE ENCOURAGE YOU TO VIEW THESE RELATED
TUTORIALS:

- **PIXEL DANCER NETWORKING & GROUPING
GUIDE**
 - **WEC3 v4.0 USER GUIDE**
 - **PIXEL DANCER USER GUIDE**

THANK YOU FOR YOUR INTEREST IN
MINLEON INTELLIGENT LIGHTING!



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Minleon USA

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