FLASHNET™

Keilton +autani

FlashNet™ + RP1

Quick Commissioning

User Guide

2026

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1. Introduction

Quick commission utilizes FlashNet™ technology to commission Keilton lighting sensors, name and group them quickly.

Notices for quick commission:

- Only available on Keilton Pro HD app.
- You will need RP1 and FL30 for quick commission.
- FlashNet™ only works on BLE5 sensors, with photo sensor (Daylight harvesting or Photocell sensors) and firmware version 240819 or later.
- All lights quick commissioned will be named as *<group name> + <separator> + <sequence number>.*

  **Refer to the RP1 and FL30 instructions for more details.*

1.1. Suggested Procedure for quick commission

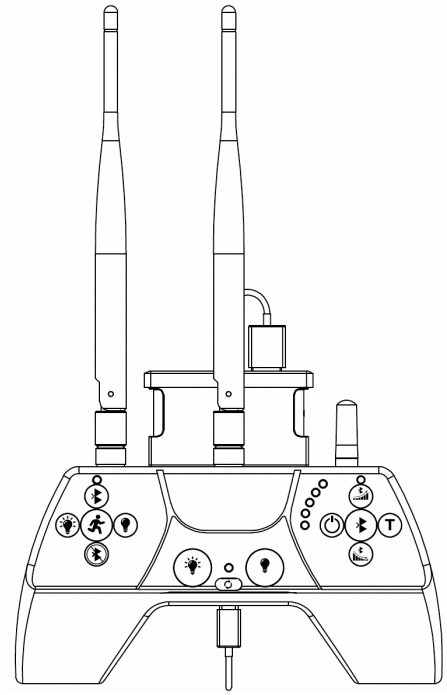
1. Create new zone and create groups for this zone.
2. Go to Quick Commission page on Keilton Pro HD App.
3. Disable RF signals for all factory settings sensors using the RP1 or the app.
4. Select a group, and start quick commission.
5. Enable RF signals for controllers in this group, by FL30/RP1. App will automatically find those sensors, commission and name them.
6. Repeat steps 4 and 5 until all sensors are commissioned.
7. Assign sensors to groups, app will connect to current zone and assign sensors to their groups respectively.
8. Go to Groups page, apply templates to groups and app will push the settings to sensors in the group, create scenes and schedules according to template settings.

1.2. Firmware Prerequisites

Note: Sensor firmware must be version 240621 or later to work with the RP1.

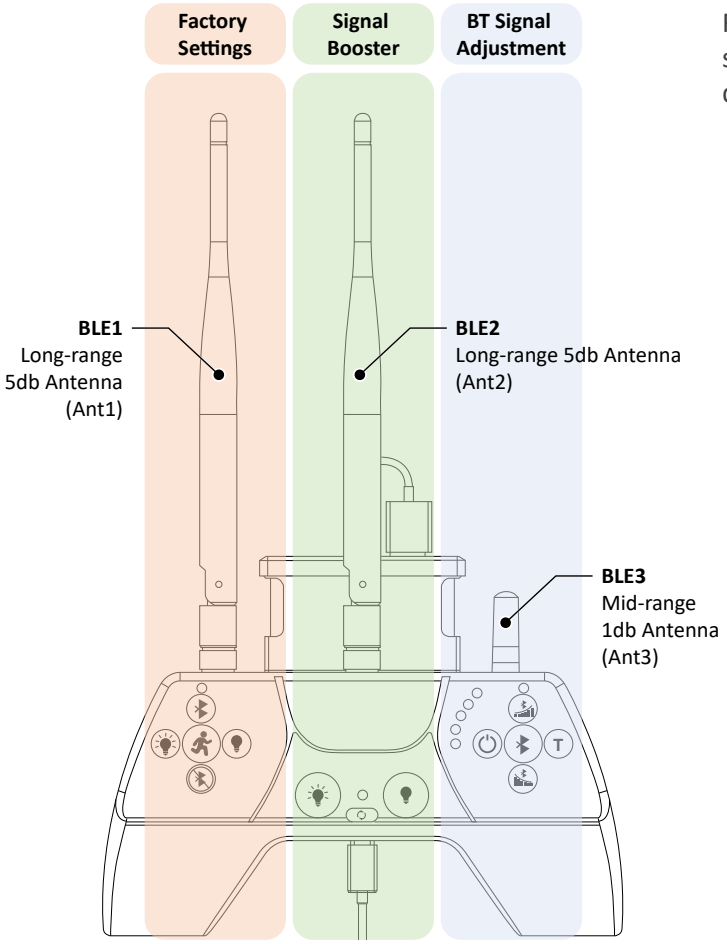
2. RP1 Commissioning Tool

2.1. Product Introduction



• RP1 is an advanced commissioning tool designed to facilitate the onsite commissioning of Keilton+autani sensors and controllers.
• Features:
  • 3 Bluetooth modules inside
  • 13 physical buttons on the hardware
  • Integrated holder for USB portable power bank)
  • (Users must ensure the portable power bank can provide continuous power to low-power devices and will not shut off when connected to the RP1)

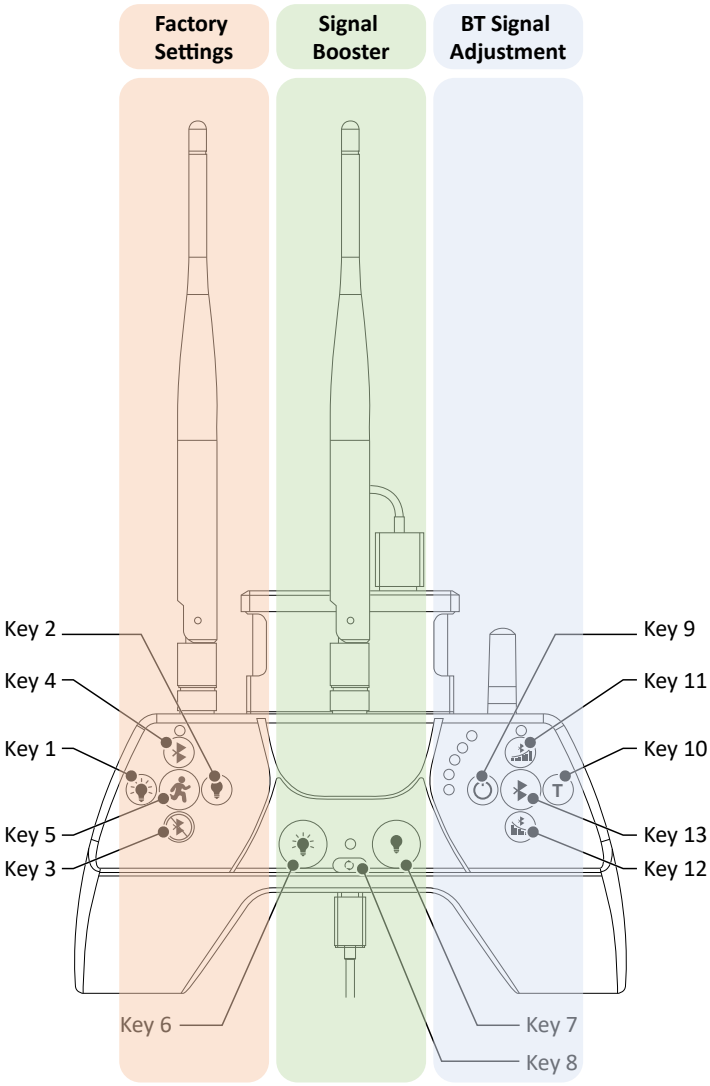
2.2. Overview



RP1 has 3 BT modules integrated inside, one for each section of the remote. Each section of the remote is dedicated to a specific commissioning task:

1. **BLE1 – Factory Settings**
   - This module is always on and part of the factory mesh network.
   - It can work as a signal booster for factory mesh network only.
   - Key functions in this section of the remote only apply to all lights in factory settings.
2. **BLE2 – Signal Boost**
   - This module can switch between factory mesh network and user zones.
   - This section of the remote functions as a signal booster to increase the wireless coverage during commissioning process.
   - Key functions in this section of the remote apply to the mesh network.
3. **BLE3 – Bluetooth Signal Adjustment**
   - This module is designed to enable Bluetooth radio communication for limited lights in a small area.
   - This module is always in the factory mesh network.
   - Key functions in this section of the remote apply to lights in factory setting and within this module's limited wireless coverage range.

2.3. Key Functions



Factory setting Keilton module (BLE1):

This module is always in the factory mesh network.

Key functions **only apply to lights in factory setting:**

1. **Key 1:**
   - Short press: Enables motion sensor, turns all lights ON, and dims between 10%/100%.
   - Press and hold for 2 seconds: Enables signal booster.
2. **Key 2:** Turn OFF all lights
   - Short press: Turns all lights OFF.
   - Press and hold for 6 seconds: Disable signal booster.
3. **Key 3:** Disables all lights' Bluetooth radio.
4. **Key 4:** Enables all lights' Bluetooth radio.
5. **Key 5:** Start motion sensor test.

Signal booster module (BLE2):

This module can switch between factory mesh network and user zones.
It works as a signal booster to increase the wireless coverage range during commissioning.

Key functions apply to devices with the **current mesh network**.

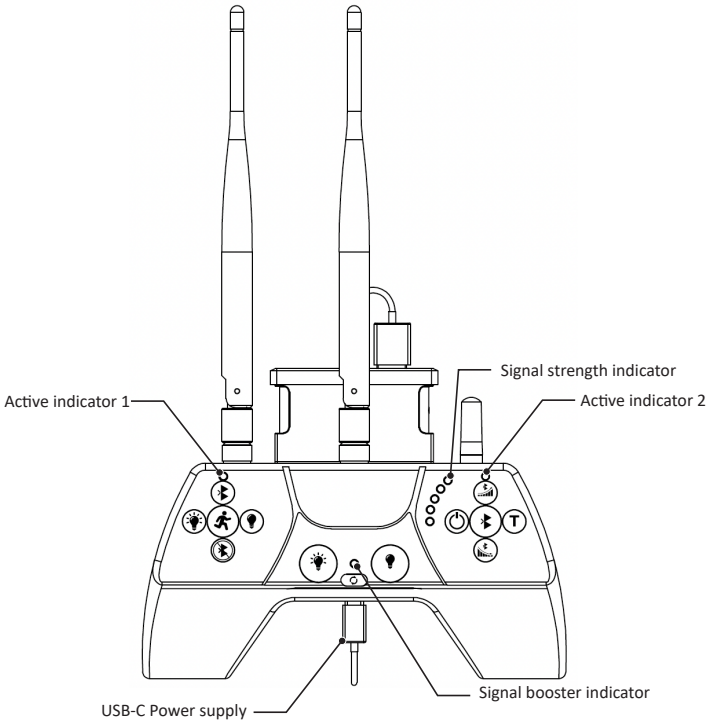
1. **Key 6:** Enables motion sensor, turns all lights ON, and dims between 10%/100%.
2. **Key 7:** Turns all lights OFF.
3. **Key 8:** Resets BLE2 to factory settings.

Bluetooth Signal Adjustment module (BLE3):

Use this module to adjust Bluetooth radio signal strength for limited lights. Key functions apply to lights in factory settings and within this module's wireless coverage.

1. **Key 9:** Enables motion sensor, turns all lights ON, and dims between 0%/100%.
2. **Key 10:** Start/stop dimming up/down sensors between 10% and 100%.
3. **Key 11:** Increase signal strength of this module.
4. **Key 12:** Decrease signal strength of this module.
5. **Key 13:** Enables lights' Bluetooth radio within signal coverage.

2.4. Power Supply and Indicators



USB Type-C power supply:
There is a USB Type-C socket on the bottom of the RP1 for power supply only. For normal use, connect it to a power bank.

Note: Some power banks may shut off after a short time because the RP1 consumes low power (~30mA). Use a power bank capable of continuously providing power to low-power devices.

Active indicator 1:
Green: Signal booster enabled. Boosts wireless transmission for factory settings sensors.
Red: Signal booster disabled.
Blue: Flashes when Keys 1 through 5 are pressed and a BLE command is sent.

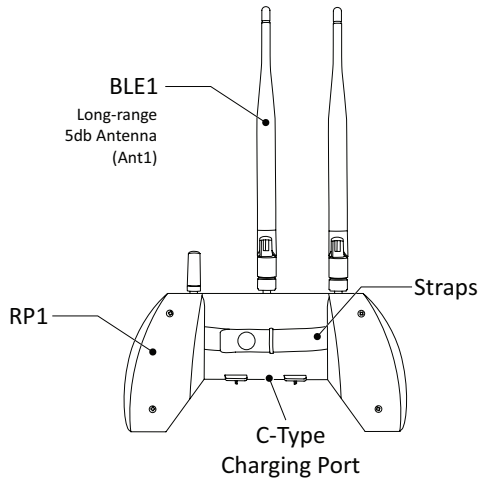
Signal booster indicator:
Signal booster indicator is a dual-color indicator, the color definition as follows:
Red: In factory settings.
Boosts wireless transmission for factory settings sensors.
Green: Device has been added to a zone.
Boosts the wireless transmission for sensors in this zone.

Signal strength indicator:
This indicator shows the signal strength of the Bluetooth enabler module. There are 50 levels of signal strength, as indicated by the 5 LEDs. The more the LED indicator lights up, the stronger the signal. The bottom LED flashes when at the lowest level and Key 12 (decrease strength) is pressed. The top LED flashes when at the strongest level and Key 11 (increase strength) is pressed.

Active indicator 2:
This indicator flashes when Key 9 to 13 is pressed and a BLE command is sent.

2.5. Charging

2.5.1. RP1 Charging Using External Charging Adapter



a. There is a USB Type-C charging port on the RP1.

b. Use an applicable USB cable for charging RP1.

c. Power ON the adapter to charge the charging appliance.
Note: The LED lights on the charging appliance can be partially or fully OFF condition before charging.

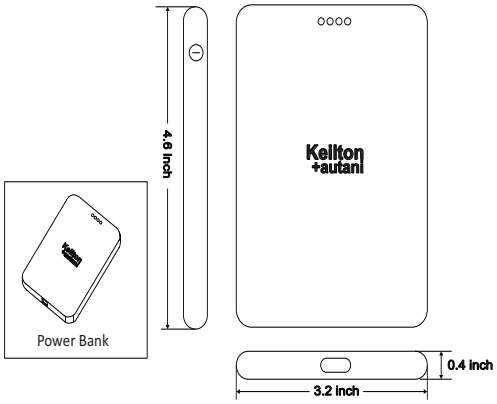
d. Power OFF the adapter once charging is complete.
Note: The LED lights on the charging appliance turns blue when charging is complete.

e. Make sure to charge the battery till all the four LED lights on the charging appliance turns blue.

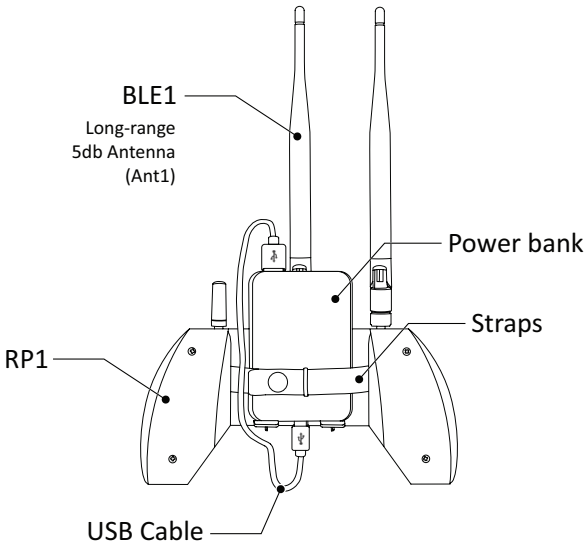
f. The charging adapter specifications must be -

Name	Voltage	Current
Charging Adapter	5V	5A

2.5.2. Charging RP1 with Powerbank (Used as a Power Source)



RP1 Controller with Power bank



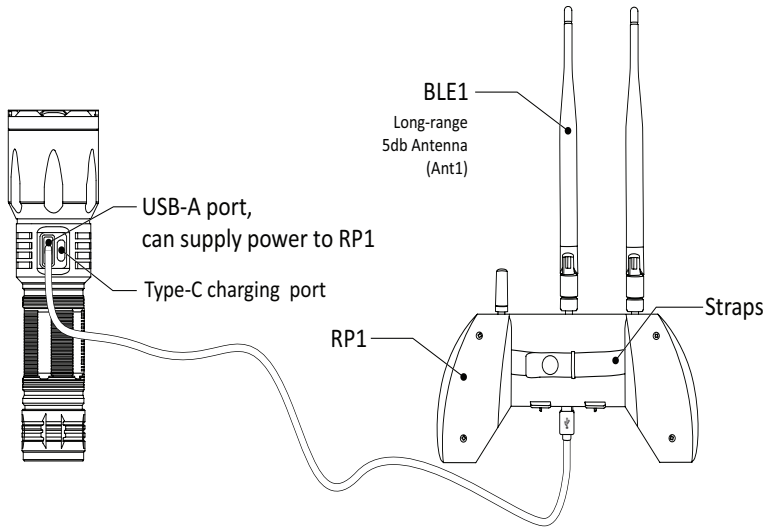
a. Carefully install the powerbank on the back side of the RP1 device.
Note: Ensure the power bank is seated correctly on the RP1 mount plates.

b. Secure the power bank with straps.

c. Use an applicable USB cable to connect the USB port on the power bank and the USB-C port on the RP1.

d. Ensure the RP1 is completely charged until all four LED lights are ON.

2.5.3. **Charging RP1 with Flashnet FL30 (Used as a Power Source)**

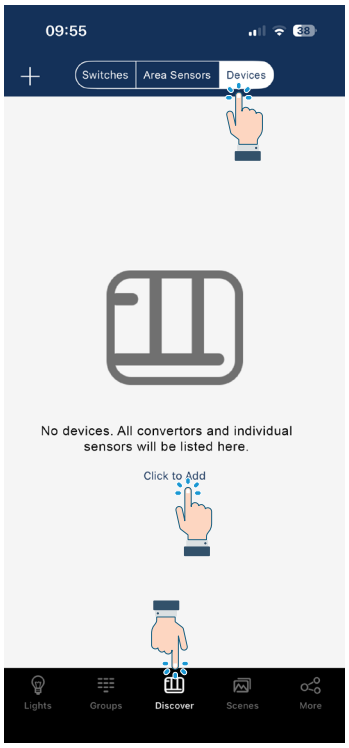


a. Use an applicable USB cable to connect the USB port in FL30 and C-type port in RP1 device for charging.
b. Ensure the RP1 is completely charged until all four LED lights are ON.
   Note: Flashnet FL30 is used as a power source to operate the RP1 device.
c. Once the RP1 is ON, double press the power button to set it to '**Strobe mode**'.
d. The power button turns green when the light is ON.

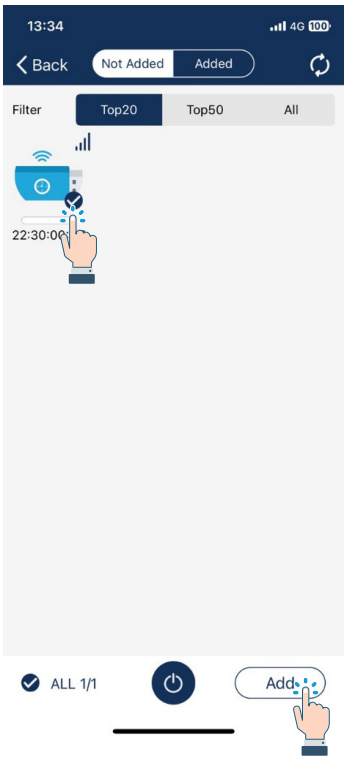
2.6. Keilton App Integration: Adding the BLE2 Signal Booster

Create a new zone and add BLE2 to the zone after all lights. The BLE2 antenna can help with configuring sensors.

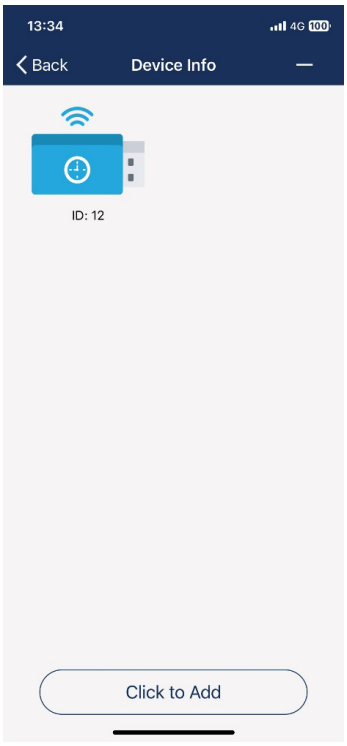
BLE2 works as a device in Keilton App.



1. Go to the '**Discover**' page, select '**Device**', then select '**Click to Add**' to add devices.



2. Select the check mark, then select '**Add**' to add BLE2.



3. BLE2 is added.

If device fails to show, reset the BLE2 to factory setting (Key 8 on RP1).

3. Pre-Commissioning & Troubleshooting

Installers and commissioning agents can use the RP1 to check the functions of the luminaire and the sensors, and fix issues at early stage.

Note: If you cannot connect to a sensor or controller using the RP1 then you cannot connect with the app to commission

RP1 can be used to perform a check of the following:

- Proper power and wiring to luminaires and sensors
- Are sensors current in factory setting?
- Sensor control settings
- Motion sensor functions

3.1. Pre-Commissioning Function Test & Punch List

Procedures for Pre-commissioning testing: Punch list development

1. Ensure RP1 is set up correctly
2. BLE1 is enabled for signal boosting (indicator green). If not, press and hold Key 1 until green
3. BLE3 has signal strength set to low—use signal strength up/down keys (Keys 11/12) until just the bottom LED is lit
4. Power ON all luminaires and sensors
5. Press Key 1 on RP1 to dim/brighten the luminaires, check to ensure proper operation
6. For non-responding fixtures, use Key 9 on BLE3 to turn luminaires OFF in the immediate area
7. Do not use Key 1 on BLE1 to turn OFF lights, as it will turn OFF all lights on the project, creating a safety hazard
8. Use Table1 on next page for possible installation issues
9. Repeat steps 5-8 for all non-responsive luminaires

3.2. Pre-Commissioning Test Issues & Troubleshooting Table

Issue	Possible Reason	Suggested Actions
A luminaire remains OFF and can't be turned ON when pressing Key 1	Luminaire or sensor is not powered on	Check the power supply, make sure products are powered on and test again
A luminaire remains OFF and can't be turned ON when pressing Key 1	Sensor and luminaire is not correctly wired, such as the 0-10v is short-connected to GND	Correctly wire the sensor and luminaire
A luminaire remains OFF and can't be turned ON when pressing Key 1	Sensor is broken. Luminaire is broken.	Connect to luminaire to a working sensor. If it still won't turn on, likely the luminaire is defective and need to be replaced. Replace the sensor.
A luminaire remains on at 100% and can't be turned dimmed when pressing Key 1	The sensor is not in factory settings so it won't respond to commands of Key 1	Reset the sensor to factory settings by deleting it from the zone or performing a hard reset
A luminaire remains on at 100% and can't be turned dimmed when pressing Key 1	Sensor and luminaire is not correctly wired, such as the 0-10v on the luminaire is open and not connected to sensor output	Correctly wire the sensor and luminaire
Luminaire respond to buttons and be turned ON and OFF but without soft DIM-UP/DOWN	The wiring between the sensor and luminaire is incorrect. Example: The AC wires are correctly connected, but 0-10v is not connected.	Correctly wire the AC and 0-10v dimming wires
Luminaire responds, but can not be completely turned OFF and remains at ~10% when pressing Key 2	The wiring between the sensor and luminaire is incorrect. Example: The 0-10v are correctly connected but AC relay is not connected.	Correctly wire the AC and 0-10v dimming wires
Luminaire only responds to operations intermittently	Antenna is not correctly installed or there are interferences to Bluetooth signal	Properly install the antenna on the sensor. Adjust the installation to avoid wireless signal interference.

3.3. Utilize BLE1 / BLE2 to Help Commission Lights

BLE1

BLE 1 will appear in the add lights page if it is configured correctly

The blue font under it indicates it is currently connected to the app directly.

When BLE radios are disabled the BLE1 will remain on the page

If the app is not directly connected to BLE2, select the '**Refresh**' button to refresh connections until it connects to BLE2 directly.

Reset BLE2 to factory settings (Key 8) so the app can utilize the BLE2 antenna to help commission lights.

4. FL30 FlashNet Tool

The **FL30** can change focus by adjusting the lens position. Please pull the lens out to focus the light to the sensor.

4.1. Product Introduction & Battery Handling

4.1.1. Removal of Rechargeable Battery from Flashlight FL30

a. Ensure the power button is switched OFF.

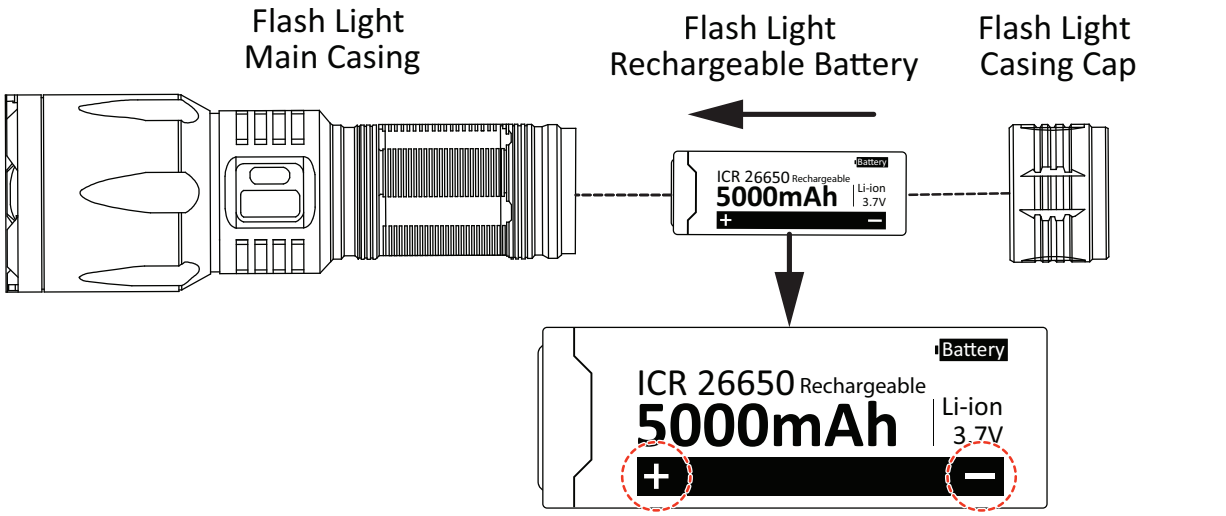
b. Carefully disconnect the casing cap from the main casing.

c. Remove the battery from the main casing.

4.2.2. Installation of Rechargeable Battery in Flashlight FL30

⚠ WARNING

Handle the battery with care. Failure to do so can explode the battery.
Make sure not to heat the battery above 212°F.
Make sure to avoid battery short circuit. Do not crush or modify the voltage (KV).
Make sure not to disassemble or dispose it in fire.
Make sure to follow the specifications for charging.



RECHARGEABLE BATTERY 5000 mAh
(Follow Battery +/- ve terminals sequence for correct installatic

a. Ensure the rechargeable battery is clean.

b. Remove any dirt on the battery and casing before installation.

⚠ WARNING

Follow battery +/- terminals sequence for correct installation.
Do not install the battery backward.
Failure to do so can lead to fire and smoke (Fire Hazard).

c. Carefully install the recharged/new battery into the main casing.

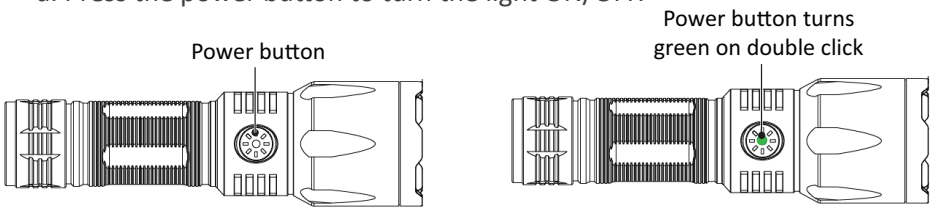
d. Install casing cap on the main casing.

e. Tighten the casing cap.

4.2. Power Button & Charging Ports

4.2.1. Flashlight FL30 Power Button

a. Press the power button to turn the light ON/OFF.

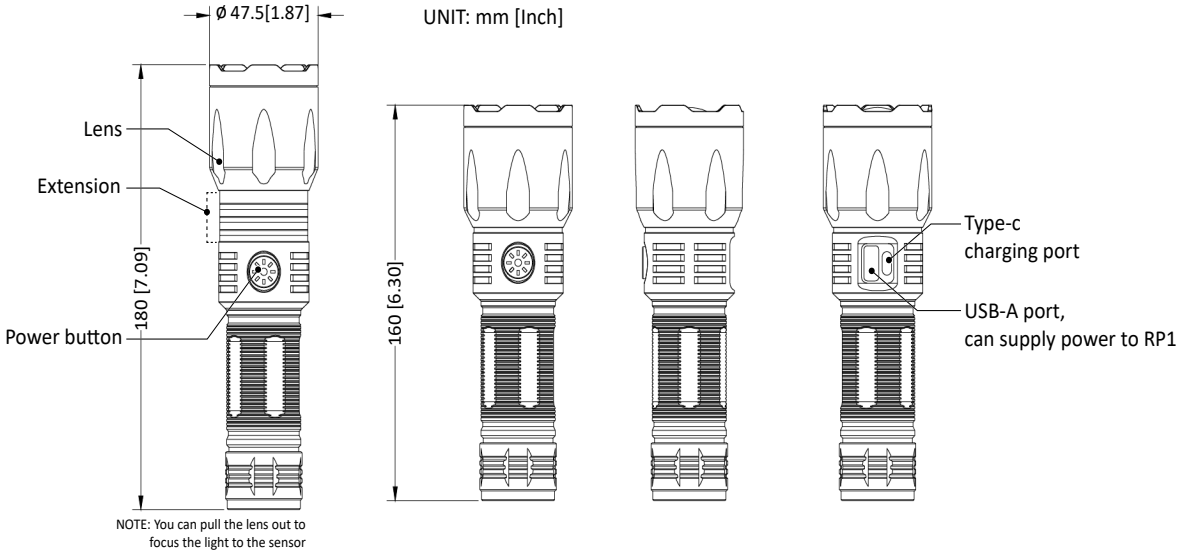


b. Double press the power button to set it to '**Strobe mode**'.

c. The power button turns green when the light is ON.

d. The power button indicates no light when it is OFF.

4.2.2. Flashlight FL30 Charging Port and USB Ports



a. There is a **USB Type-C** charging port for charging the FL30.

b. There is a **USB Type-A port** (power output) on the side which can provide:

1. Power output to RP1 device
2. Connect to external charging adapter for RP1 charging.

c. Use the port to power the RP1 device.

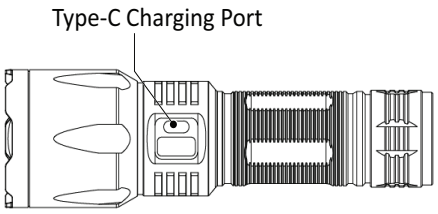
4.2.3. Flashlight FL30 Battery Charging

a. FL30 Flashlight charging (with battery installed inside the flashlight) through an External Charging Adapter

⚠ CAUTION

Use correct external charging adapter with recommended specifications.
Do not use fast charging adapters.

i. Use an applicable charging adapter for charging flashlight with a charging port.
ii. Check for dirt on the USB-C socket on the side of the FL30.
iii. Use an applicable USB cable to connect the ports on the flashlight and the charging adapter.



iv. **Power ON** the adapter to charge the flashlight.
Note: The power button turns red when it is charging.

v. **Power OFF** the adapter once the flashlight is completely charged.
Note: The power button turns green when the charging is complete.

vi. The specifications for the battery charging adapter must be

Name	Voltage	Current
Charging Adapter	5V	5A

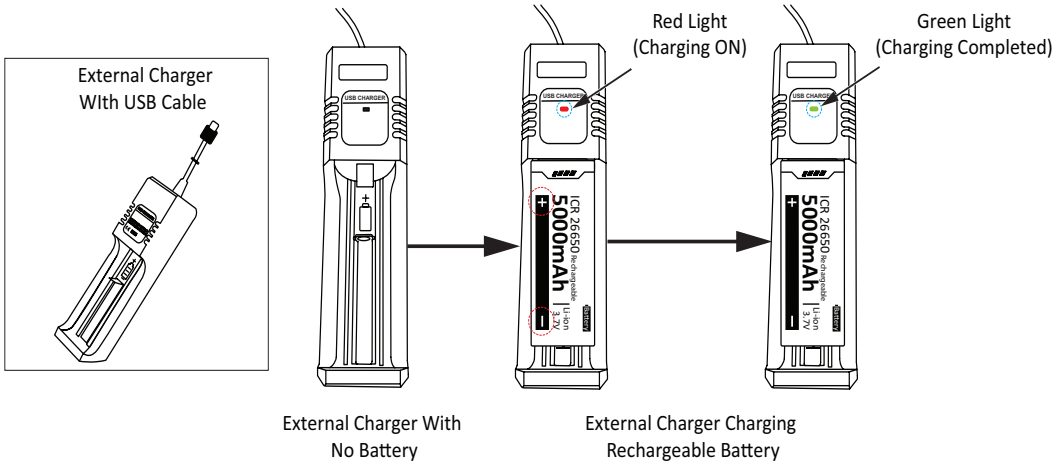
vii. Following are the conditions when to replace a rechargeable battery -

a. The battery takes long time to get fully charged.

b. The battery drains quickly after full charge.

c. Charging cycles, heat and age are the main reasons for the replacement of the battery.

b. FL30 rechargeable battery charging (removed from flashlight) through an External Battery Charging Appliance



i. Use an applicable battery charger applicance for charging the rechargeable battery.

ii. Carefully place the battery in the charging appliance.
Note: Make sure that the battery terminals are connected correctly.

iii. Connect the USB cable end of the charging appliance to the USB port on the charging adapter.

iv. **Power ON** the adapter to charge the charging appliance.
Note: The LED light on the charging appliance turns red when it is charging.

v. **Power OFF** the adapter once charging is complete.
Note: The LED light on the charging appliance turns green when charging is complete.

vi. Make sure to charge the battery till the light on the charging appliance turns green.

vii. The specifications for the external battery charging appliance must be

Name	Input	Output
Charging Adapter	DC 50/1A-3A	42V/1000mA

5. Commissioning Workflows

5.1. Typical Application: Commissioning High-Density Sensor Zones

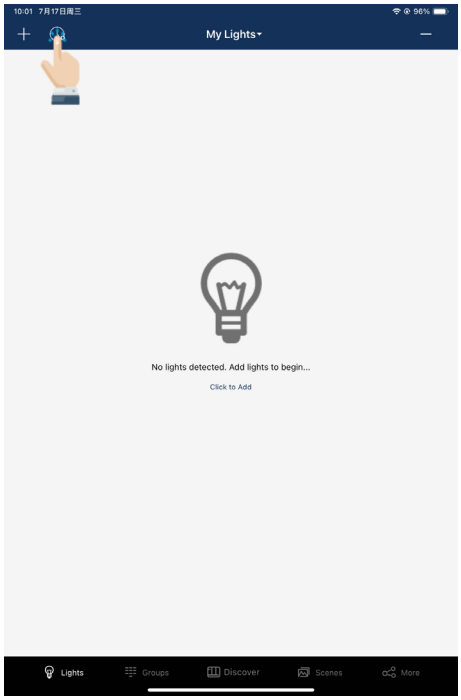
It can be challenging to commission sensors when there are many sensors installed in the jobsite.

Having many sensors in the same mesh network with factory settings can impede wireless communication and make it difficult for the mobile app to discover and commission sensors.

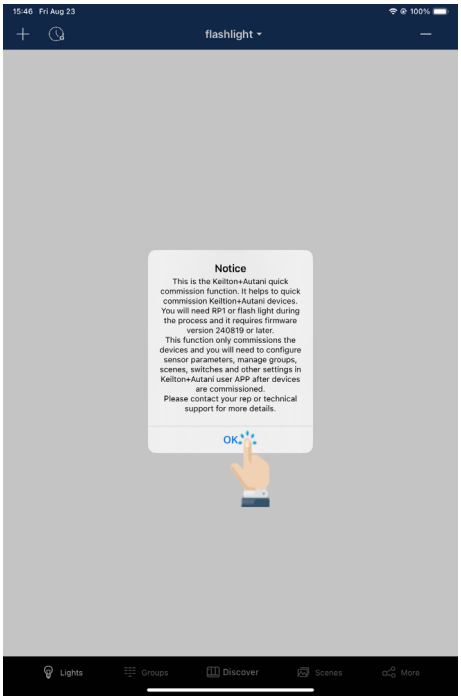
RP1 will be very helpful in such applications. Installers performing commissioning can follow these steps to improve the commissioning process:

1. Create a new zone for commissioning, or switch to the target zone on the app
2. Add BLE2 signal booster to the target zone and enable BLE1 signal booster (see previous page for instructions)
3. If necessary, press Key 1 to dim/brighten to confirm all fixtures and sensors are correctly installed
4. Press Key 3 to disable Bluetooth signal for all sensors.
5. Press Key 11 and 12 to adjust the signal strength.
6. Press Key 13 to enable the Bluetooth signal for a few nearby sensors
   - Luminaires that have been enabled will blink – if a fixture in an area did not respond – move closer and enable BLE (Key 13)
7. Commission those sensors to the zone
   - It will be easier to commission sensors because only a small quantity of sensors are actively sending signals (wireless traffic is less jammed)
   - Press Key 6/7 to confirm sensors have been successfully commissioned.
   - Create a new group and add fixtures to group (ungrouped tab at top of page)
   - Set parameters of group (timeout, DLH, etc.) Use templates to save time
8. Move to next area and repeat steps 4 to 7 to commission all sensors for this zone.
9. Refine groups, scenes, schedules, set sensor parameters.
10. Delete BLE2 signal booster from the zone or press Key 8 to reset it to factory settings.
11. Create another zone on the app, repeat steps 2 to 10 to commission sensors in the new zone.
12. Repeat the above process until all sensors have been commissioned and configured.

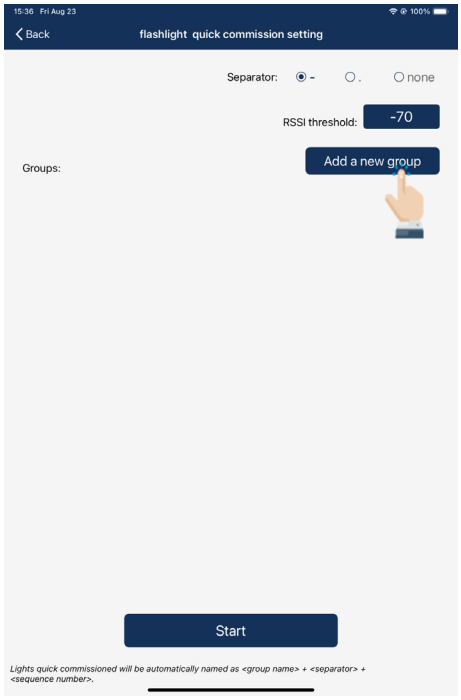
5.2. Quick Commission



1. Select the '**Quick commission**' button in '**Lights**' page.



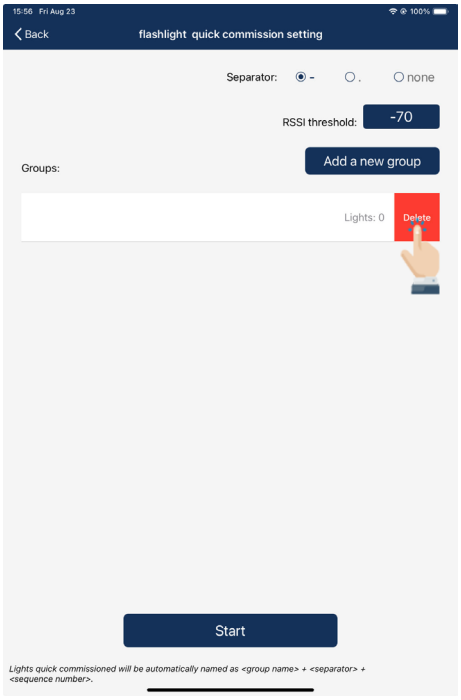
2. Ensure the firmware version of those lights is **240819** or later, then select '**OK**' to open the parameters settings page.



3. Set the Separator and RSSI threshold.

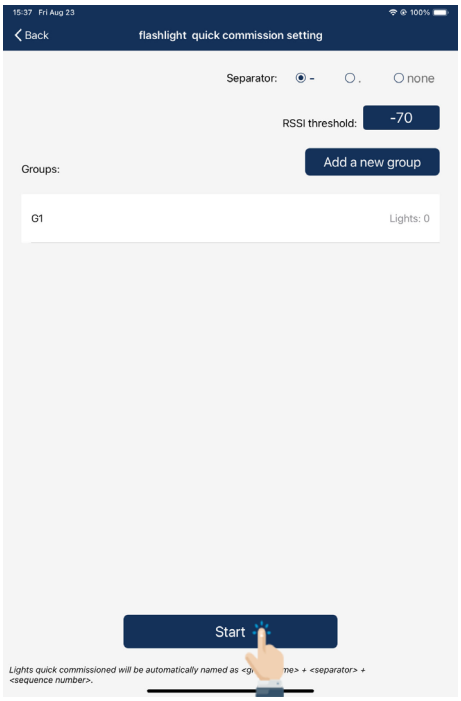
Note: Sensors with RSSI less than the threshold will not be automatically commissioned.

Select '**Add a new group**' to add groups.

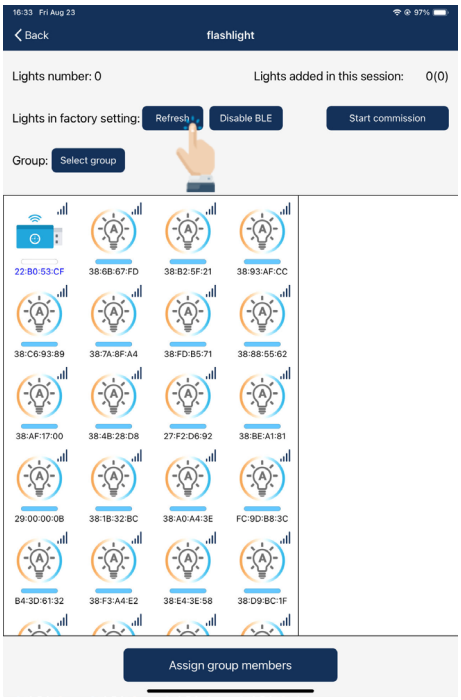


4. Left swipe on a group to delete it.

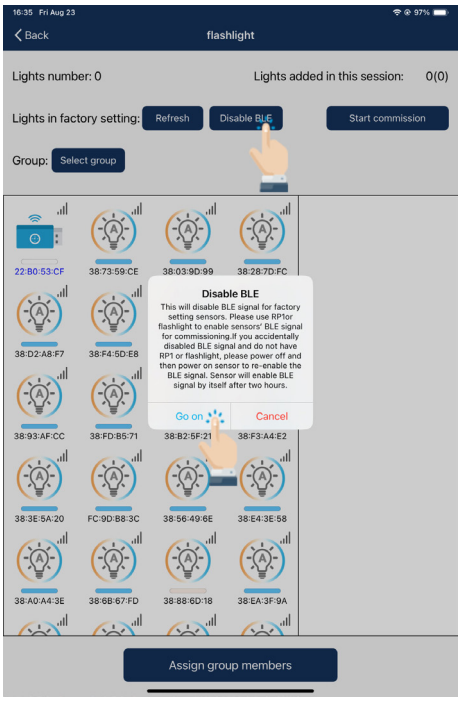
NOTE: Only groups with no members can be deleted.



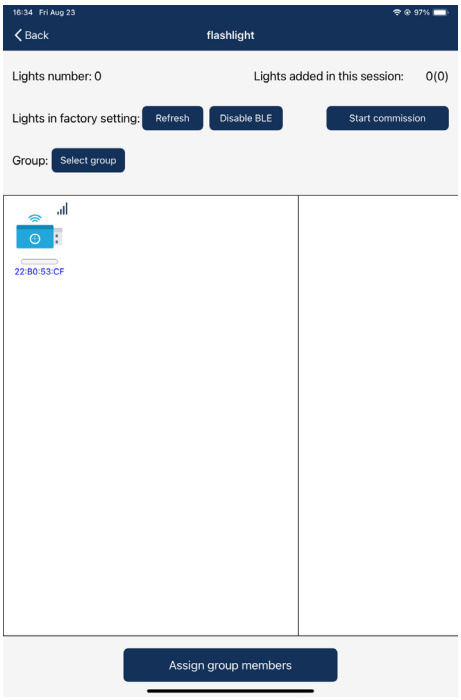
5. Select ‘Start’ to start commissioning.



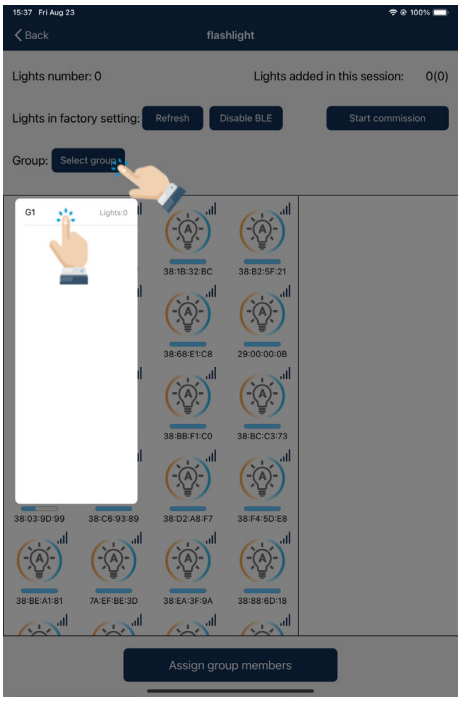
6. Select ‘**Refresh**’ to refresh the un-commissioned lights list.



7. Select ‘**Disable BLE**’ to disable Bluetooth radio signals for all lights in factory settings.

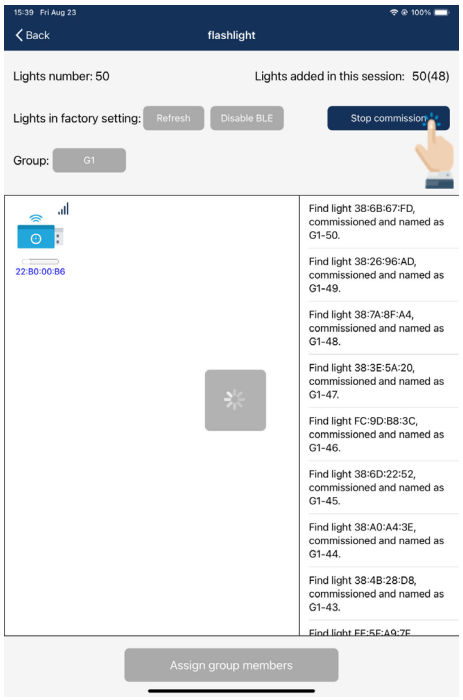


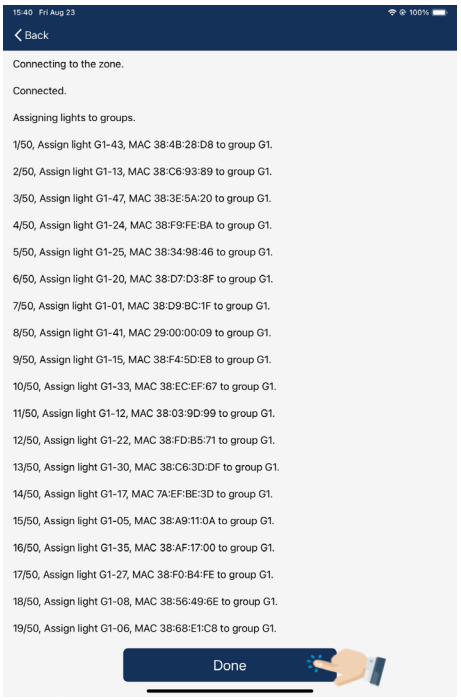
8. Signal booster will keep radio signal enabled to help commission other lights.



9. Select a group before starting commissioning.

10. Select '**Start commission**' and the app will continuously search for factory settings lights, commission them, and name them as G-XX.





11. Select '**Stop commission**' to end commissioning. Select another group and continue commission lights in this group.

5.3. Tactical Use of Dual Signal Boosters (BLE1 & BLE2)

5.3.1. BLE1 / BLE2 signal booster

BLE1 and BLE2 both has signal booster functions but with some differences:

- Signal booster in BLE1 can be disabled or enabled. When enabled, it can only work in and boosts the signals within factory mesh network to help commission sensors. You cannot commission the signal booster in BLE1 to a zone.
- The signal booster in BLE2 can be added to a zone or reset to the factory mesh network. When in factory mesh network, it can help commission sensors, while in a ZONE it helps to send parameters to sensors in this ZONE.

5.3.2. How to use both signal boosters

Add the BLE2 signal booster to the zone you are working on and enable the signal booster on BLE1 so you can utilize both signal boosters for commission and configuration at the same time without switching between factory mesh network and the ZONE.

5.3.3. Enabling BLE1 Signal booster

Press and hold Key 1 on BLE1 until the indicator turns pale blue, then release. The indicator should be green (if not, repeat)

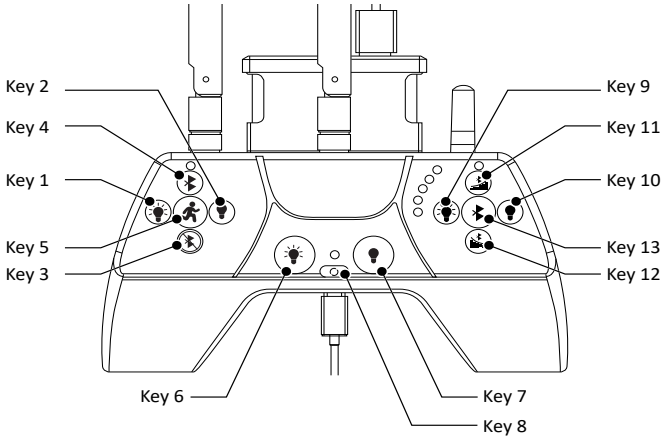
To disable BLE signal booster, press and hold Key 2 until the indicator changes, then release. The indicator should be red.

5.4. Using FL30 / RP1 to enable radio signal

Holding the **FL30**, switch to '**Strobe mode**' and aim at the sensor for 2-3 seconds to enable the sensor's radio signal. Light will flash to indicate radio signals are enabled. App will find and commission it.

5.4.1. Bluetooth enabler module (BLE3):

Use this module to enable Bluetooth radio for limited lights in a small area to facilitate the commissioning operation. This module is always in the factory mesh network. Key functions apply to lights in the factory setting and within this module's wireless coverage.

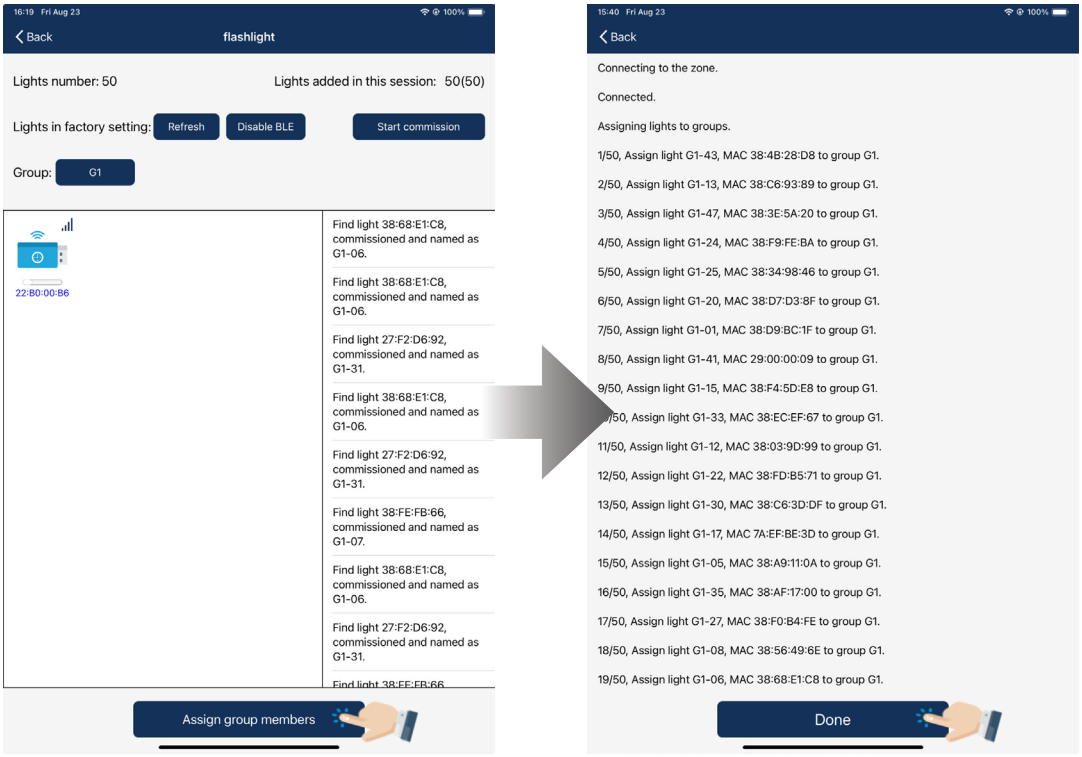


1. **Key 9:** Turns all lights ON or OFF.
2. **Key 10:** Enables automatic dimming test function.
3. **Key 11:** Increase signal strength of this module.
4. **Key 12:** Decrease signal strength of this module.
5. **Key 13:** Enables lights' Bluetooth radio.

Use RP1 to enable the radio signal for sensors within a limited range. Assigning sensors to groups

6. Grouping and Configuration

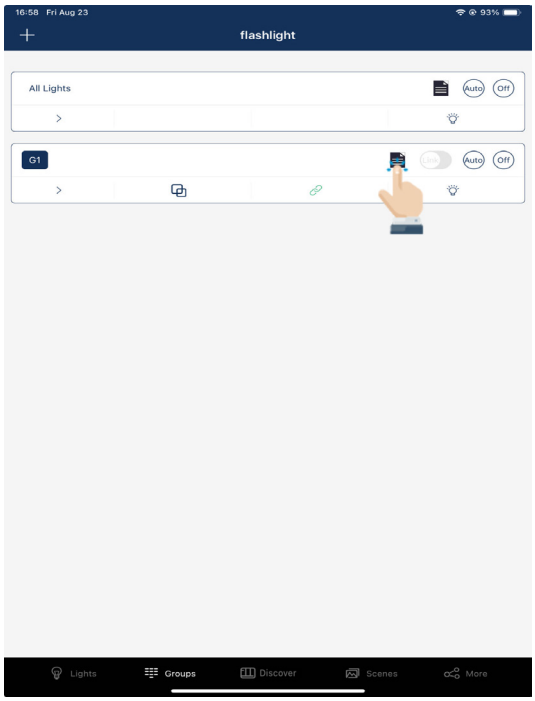
6.1 Assigning Sensors to Groups



1. After commissioning is complete, assign sensors to their groups –

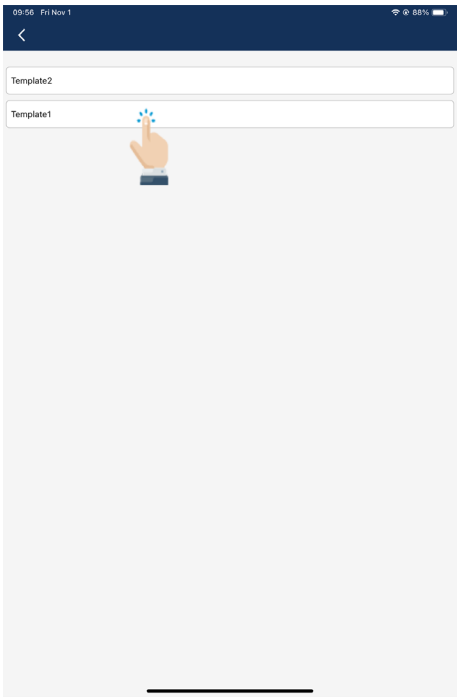
   a. Select '**Assign group members**' to automatically assign those sensors to their groups.

6.2 Apply Template

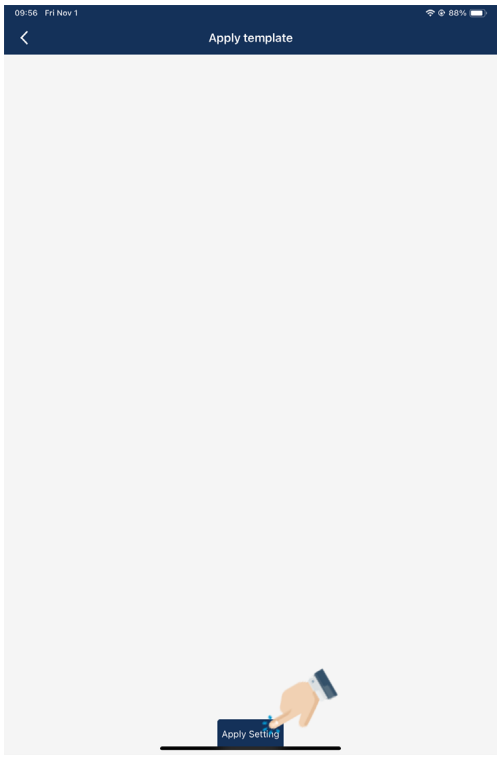


1. Templates can quickly set the parameters of all lights in the group.

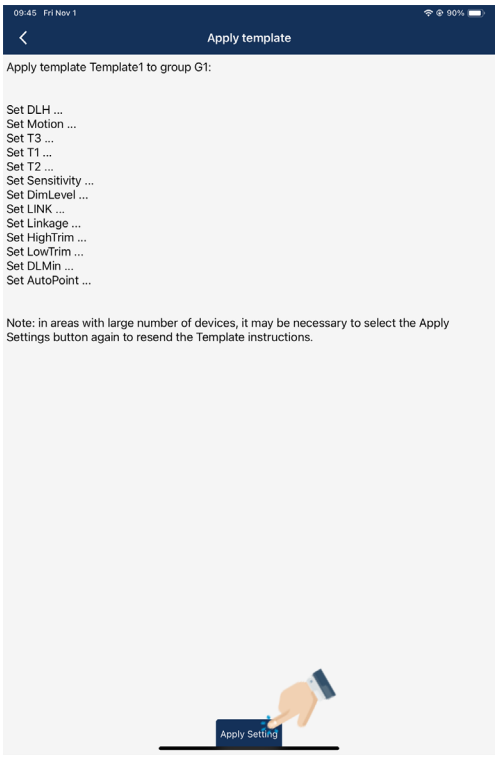
   Select the icon to open the template list.



2. Choose a '**template**' to apply it to this group.

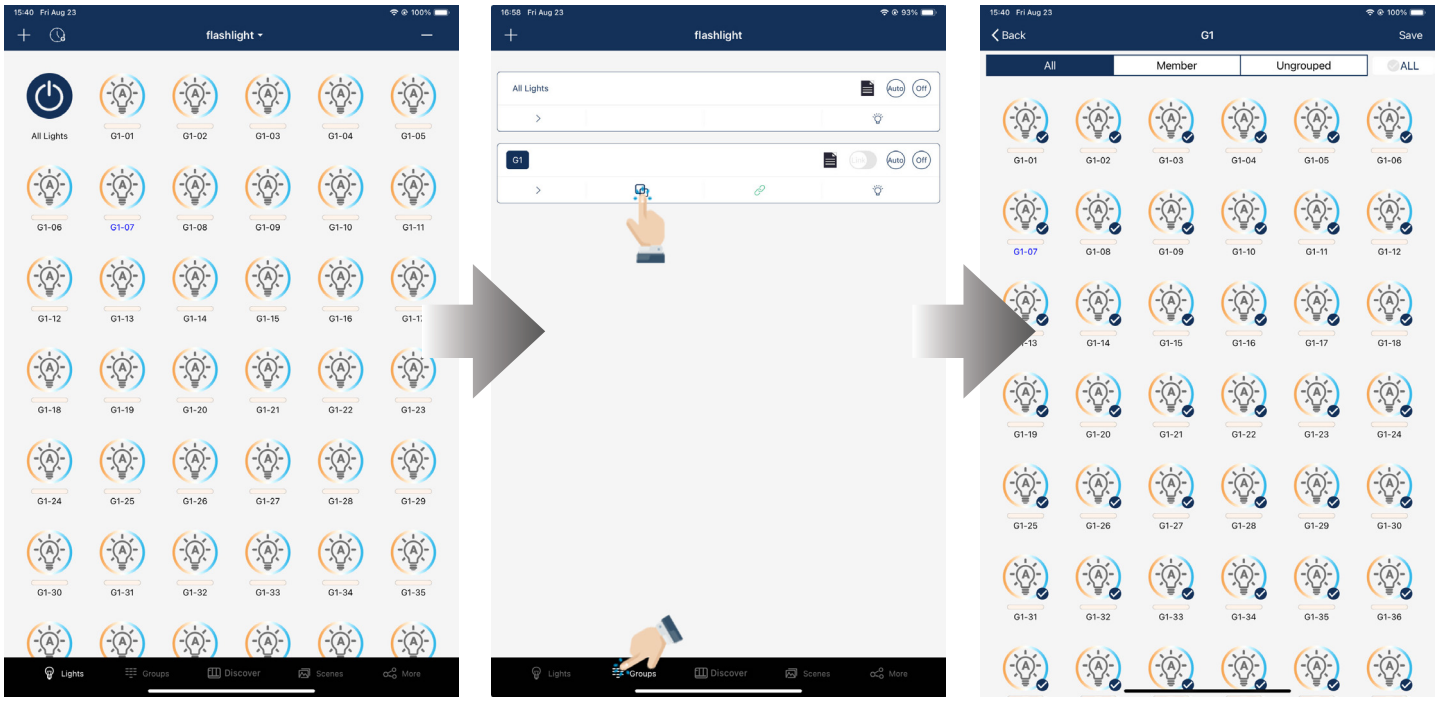


3. Select '**Apply settings**' to send the parameters.



4. If parameters fail to send, select '**Apply settings**' to repeat the process.

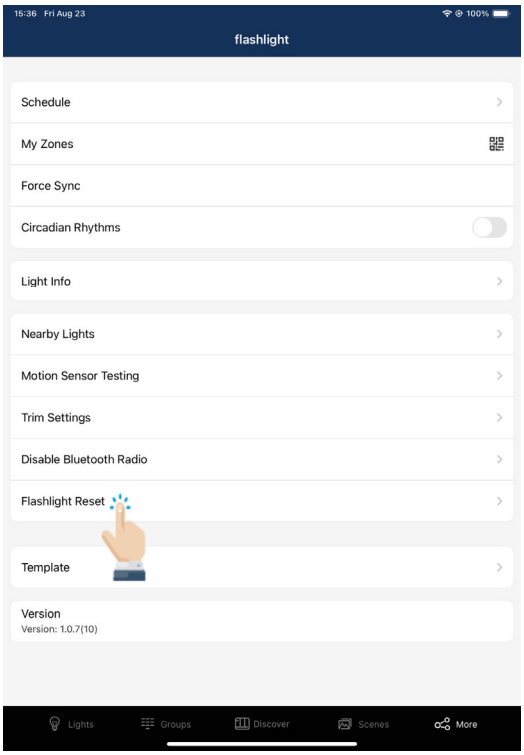
6.3 Quick Commission Application

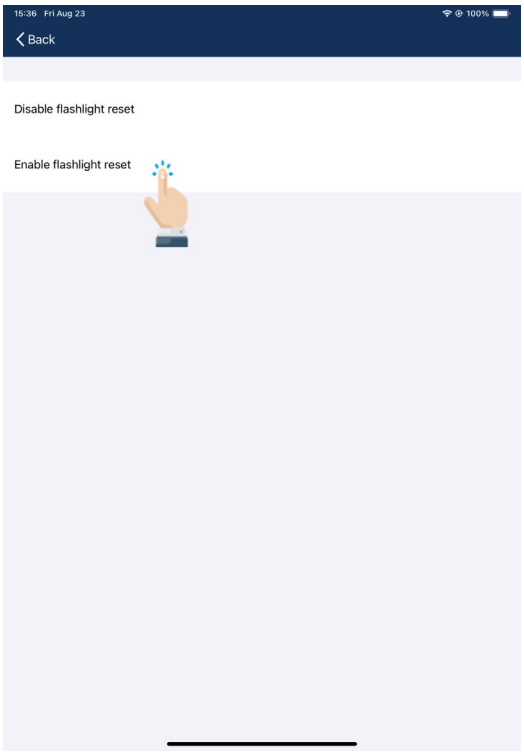


1. Check the commissioning and grouping results.

7. Maintenance & Advanced Settings

7.1 Enable/Disable Flashlight Reset





1. Go to '**More**' page.

2. Select '**Flashlight reset**'.

3. Select '**Enable flashlight reset**' or '**Disable flashlight reset**'.

4. Set the FL30 to '**Strobe mode**' and point it at a commissioned controller (must have photo sensor) for more than 6 seconds to reset it to factory settings.

5. Disable '**Strobe mode**' to prevent controllers from being accidentally reset.

Need Help?

Technical Support For installation, configuration, and troubleshooting assistance
Support Center: https://autani.zendesk.com/hc/en-us | Email: support@autani.com
Phone: +1 (443) 320-2233 | Hours: Monday-Friday, 9 AM - 5 PM EST

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