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APP USER MANUAL

TEELIO

a Portor Lighting brand

Bluetooth™

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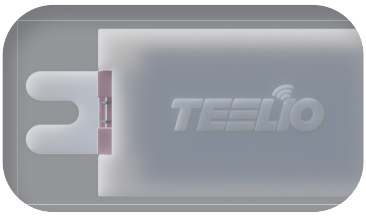

With TEELIO, integrating wireless lighting controls through Bluetooth mesh technology is both quick and straightforward. This manual offers a comprehensive guide to using the app and exploring its various features.

For detailed information on specific devices, please refer to the relevant specification sheets or installation instructions.

APP INSTALLATION

To download the TEELIO App, please search for “TEELIO” in the Apple App Store or Android Google Play Store.

The below QR codes will take you directly to the TEELIO app download page once scanned. Once the TEELIO App is downloaded, photo and bluetooth access will be requested, please proceed to grant access to both.

Bluetooth™

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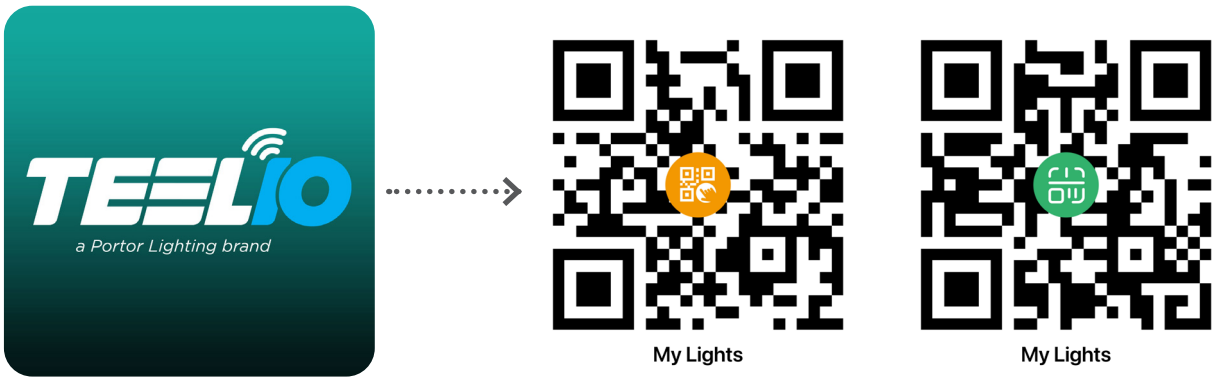
IT IS RECOMMENDED TO HAVE AUTO UPDATES TURNED ON.

ZONES AND QR CODES

When the TEELIO app launches, a zone called ‘My Lights’ will be automatically created, and QR codes for admin and user access will be saved to your photos. The QR code with an orange center and a hand icon grants Admin access, while the one with a green center is for User access.



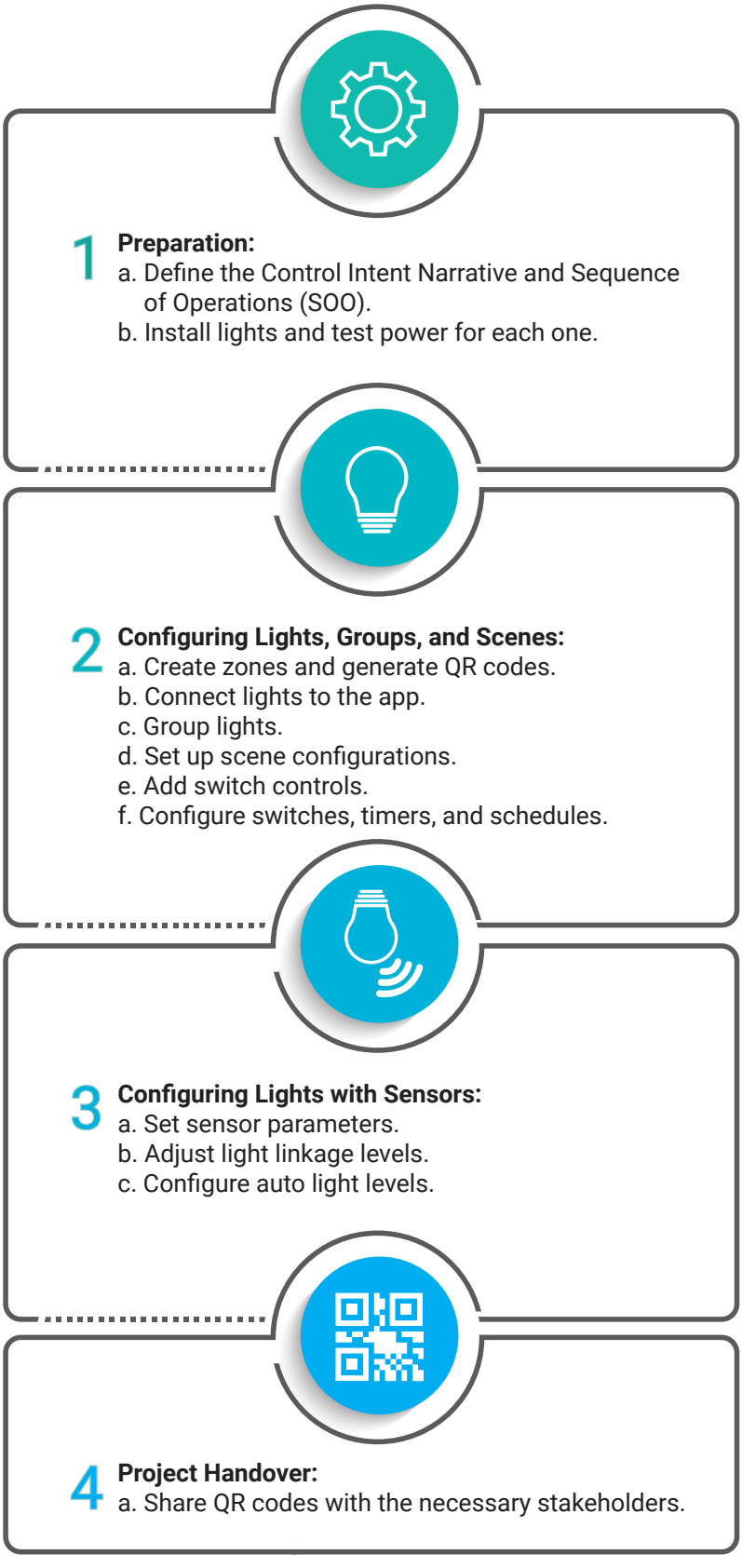
Each zone operates as a separate mesh system, and larger installations usually consist of multiple zones. To access the Zones page, tap ‘More’ in the bottom pane, then select ‘Zones.’ A single zone can support up to 100 lights, 10 switches, 127 scenes, and 32 schedules. When a zone is created, QR codes for both administrator and user access levels are generated, allowing the users to download the zone’s commissioning data from the cloud.

MORE:
(Accesses additional features like schedules, zones, device information, high/low-end trim adjustments, and other settings.)

It’s crucial to securely store these QR codes, as the Admin QR code cannot be recovered if lost. If the Admin QR code is misplaced and the zone is deleted from the app, any devices associated with that zone will need to be decommissioned through a power cycle reset or reset button. Only share the Admin QR code with trusted individuals who will manage and edit your system. For general users, provide the User QR code, which allows basic control functions like dimming, scene activation, or light control, but prevents adding, deleting, or modifying lights, groups, or scenes.

COMMISSIONING SEQUENCE

The Following Commissioning Sequence is recommended:

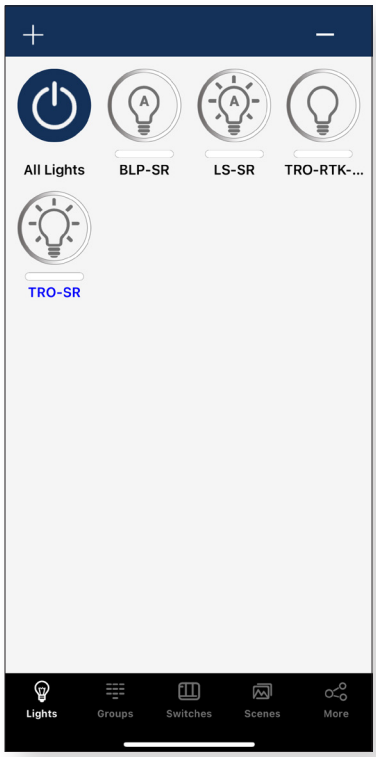


1 **Preparation:**
a. Define the Control Intent Narrative and Sequence of Operations (SOO).
b. Install lights and test power for each one.

2 **Configuring Lights, Groups, and Scenes:**
a. Create zones and generate QR codes.
b. Connect lights to the app.
c. Group lights.
d. Set up scene configurations.
e. Add switch controls.
f. Configure switches, timers, and schedules.

3 **Configuring Lights with Sensors:**
a. Set sensor parameters.
b. Adjust light linkage levels.
c. Configure auto light levels.

4 **Project Handover:**
a. Share QR codes with the necessary stakeholders.



MAIN FUNCTIONS

At the bottom of the TEELIO app, you'll find five icons: Lights, Groups, Switches, Scenes, and More.

LIGHTS:
Displays all lights connected to the app, where users can view and control each light individually.

GROUPS:
Provides options to create and manage groups of devices.

SWITCHES:
Shows all connected switches and allows users to view or edit switch controls.

SCENES:
Enables users to create and manage scenes for customized lighting settings.

MORE:
Accesses additional features like schedules, zones, device information, high/low-end trim adjustments, and other settings.

LIGHTS

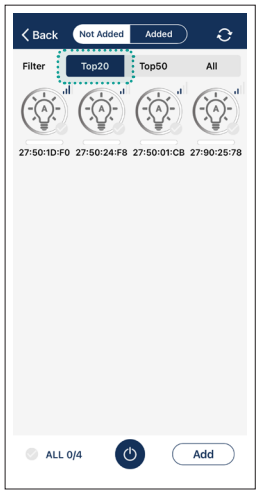
Displays all lights connected to the app, where users can view and control each light individually.

6.1 Adding Lights

The Lights page is the first screen you'll see when you open the app and serves as the main control center for individual lights. You can add lights by zone, but make sure not to activate more than 100 lights at once to avoid overloading the system. To prevent interference with wireless communication, turn off any lights outside the active zone at their power source.

Follow these steps to add lights to the TEELIO app:

1. Tap the "+" button in the upper left corner.

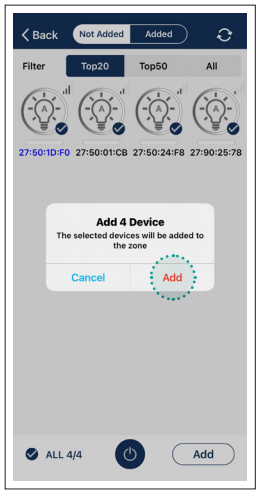


2. Use the Top20 or Top50 options to display lights with the strongest Bluetooth signals.

3. Identify lights by toggling them on and off using their icons.

4. To select the lights you want to add, tap the check mark in the lower right corner of the desired light icons.

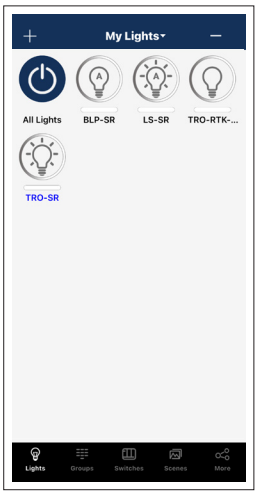
5. Tap "Add" in the bottom right corner.



6. In the pop-up dialog box, confirm your selection by tapping "Add." The selected lights will blink to indicate a successful connection.

7. Press the "Back" button to return to the previous screen.

6.2 All Lights Page

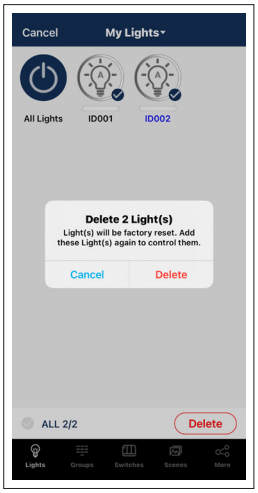


Every light connected to the app is listed on the Lights page. Each light can display different icons to indicate its current status.

1. **All Lights:** A default system-wide on/off switch that toggles all lights in the region between auto-on and manual-off.
2. **Auto-off:** The light is off and will turn on automatically if motion is detected.
3. **Auto-on:** The light is on and operating in automatic mode.
4. **Manual-off:** The light is off and will remain off until a scheduled event or manual command overrides it.
5. **Manual-on:** The light is manually set to a specific level and will automatically return to auto-off mode after the motion sensor delay period.
6. **Offline:** The controller is likely either without power or out of range of the mesh network.
7. **Blue Light Name:** Indicates the light that the phone/tablet is using to connect to the mesh network.

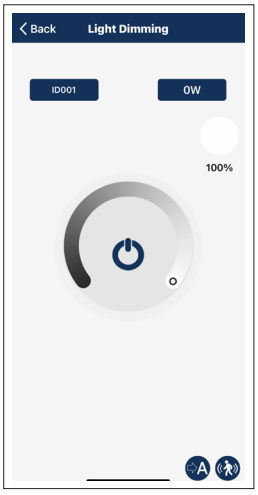
Swiping left or right on a light icon allows for quick brightness control.

6.3 Deleting Lights



- Select the "-" icon in the lights page, and choose the lights to be deleted.
- Select "Delete" and confirm action by selecting "Delete" in the pop up dialog box.

6.4 Dimming Page



The Dimming page is accessible for both individual lights and groups. On this page, you can rename the light, adjust the brightness using the rotary dimmer, toggle the power on/off, set the auto level, and navigate to the Sensor page. To access the Dimming page for a specific light, press and hold its icon on the Lights page.

Top left to change light's name / Top right indicates fixture wattage after high end trim is set. (If a high-end trim is not, this can be ignored.)
Bottom Right "Arrow A" button is to set the auto dimming level.

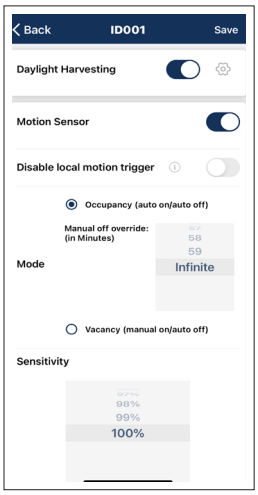
Daylight-enabled auto mode should be configured when ambient light levels are relatively low. The daylight feature automatically adjusts the light output to align with the light level measured when the auto level was set. If the photo sensor detects an abundance of natural light, the luminaire will output at the highest level to try to match this.
Note: *Daylight sensing is not shared between lights. Each controller uses its own measurements to adjust its output when the photo sensor is enabled.*

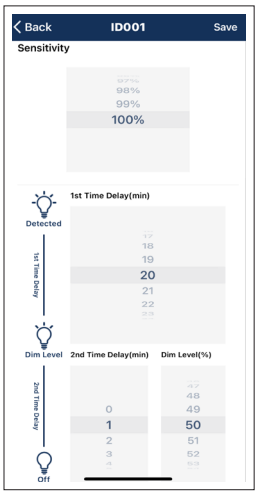
Note: *If a light or group is not using a linkage or sensor, ensure the Motion Sensor is disabled and/or the Hold Time is set to infinite. Otherwise, the lights will turn off after the time delay due to a lack of motion or linkage triggers. The luminaire will still turn on to the auto level in either case, but without displaying the 'A' icon on the light*

Select "Back" to save settings and return to the Lights Page.

6.5 Sensor Page

To access the Sensor page for a specific light or group, tap the Sensor icon on the Dimming page.





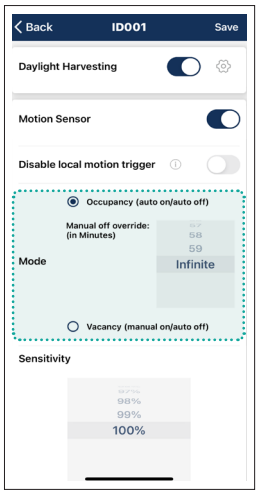
The below is a brief overview of the functions in the sensor page -

- Tap Photo Sensor to toggle dynamic daylighting on or off
- Tap Motion Sensor to enable or disable the motion sensor
- Adjust Manual Off Override to set how long the light remains in manual-off mode before reverting to auto-off if no motion is detected.
- Adjust Sensitivity to modify the motion sensor's detection strength.
- Tap Occupancy or Vacancy to change the motion sensor mode.
- Adjust Hold Time to set how long the light stays at the auto level before dimming to standby.
- Adjust Standby Level to set the dimming level for standby mode.
- Adjust Standby Time to set how long the light remains in standby before dimming to auto-off.

6.5.1 Occupancy and Vacancy Sensor

There are two operational modes for motion sensors in Auto Mode:

Occupancy Sensor: Automatically turns on when motion is detected and turns off when the Hold time / Standby time expire.
Vacancy Sensor: Requires manual activation via a switch and turns off automatically when the Hold time / Standby time expire.



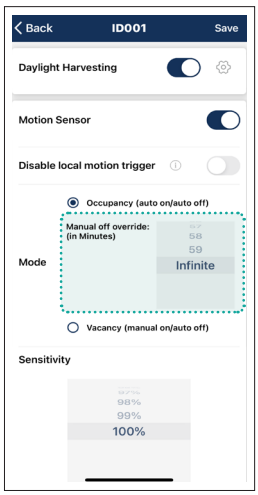
Hold time / Standby time can be set to 'Infinite Time Delay' to keep the lights on indefinitely, meeting specific application needs.

The daylight harvesting sensor is disabled by default. To enable it, use the app to set the appropriate auto calibration threshold or a manual ON/OFF threshold without auto-calibration.

Avoid enabling 'Daylight Harvesting' if no photo sensor is installed or connected, as this may cause erratic dimming due to the inability to accurately measure ambient light levels

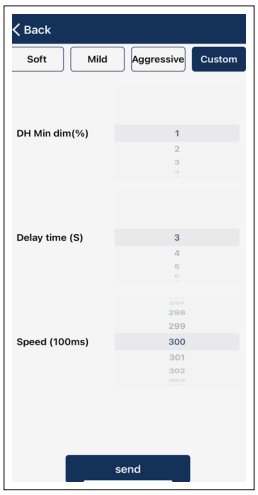
6.5.2 Manual OFF Override

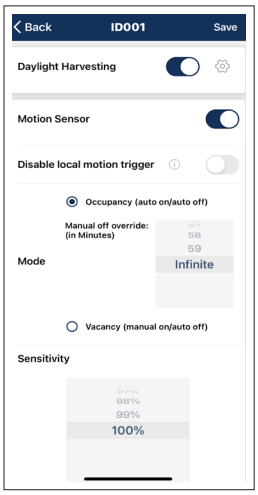
In Occupancy mode, users can set a manual OFF override time. When the light is manually turned off—whether through the app, a switch, or a schedule—it stays off and won't respond to motion during the set 'Manual OFF override time.' If motion is detected within this time frame, the timer restarts. Once the override period expires, the lights will stay off but become ready to respond to motion again. The default setting is "Infinite".



6.5.3 Daylight Harvesting Settings

Select the setting button next to the Daylight Harvesting toggle to enter the Daylight Harvesting Setting Page.





Adjustable parameters for the daylight harvesting strategy include:

DH Min Dim (%): This sets the minimum light level to which the daylight harvesting sensor can dim the luminaire. Increase this value to keep the luminaire brighter or decrease it to increase energy saving. If this value is set lower than the 'low-end trim, the "low-end trim" setting will take precedence.

Delay Time (S): This defines how long the sensor waits before dimming the luminaire after ambient light levels increase. A longer delay will make the luminaire maintain its current brightness level longer, even as ambient light increases.

Speed (100 ms): This determines the rate at which the sensor dims the luminaire. A higher value results in a slower, smoother dimming process.

There are 3 preset modes: Soft, Mild, Aggressive, and a Custom field.

GROUPS

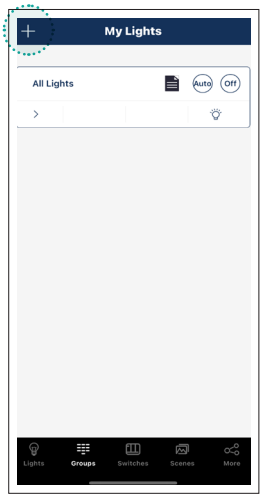
Groups allow you to control a specific set of lights and sensors within a defined area. The app includes a default group called "All Lights" which provides control over all lights within the zone. With groups, you can configure or change settings for all devices within the group simultaneously.

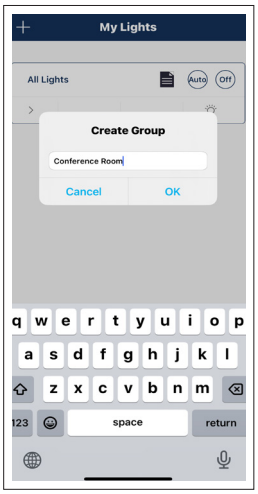
7.1 Creating Groups

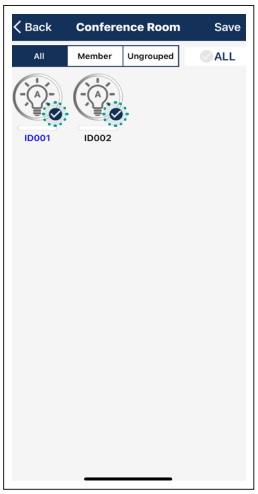
Follow these steps to create a group in the TEELIO App:

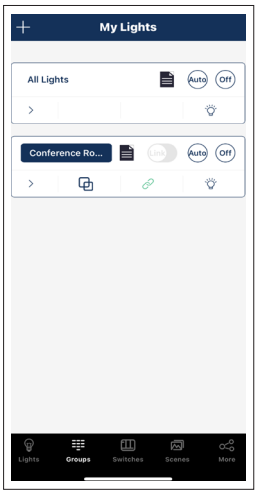
1. Tap "+" and enter a name for the new group.
2. Select the lights you want to include in the group, then select "Save". There are 3 filters: All, Grouped, Ungrouped.

All: All lights are shown.
Grouped: Lights that are added to at least 1 group are shown.
Ungrouped: Lights that have not been added to a group are shown.



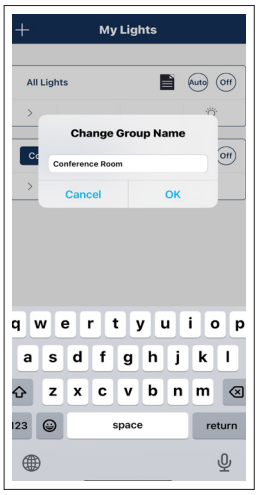






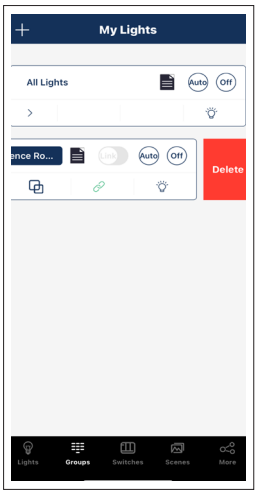
7.2 Renaming Groups

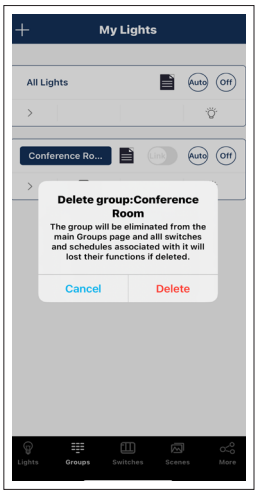
Click on the group name to rename the selected group.



7.3 Deleting Groups

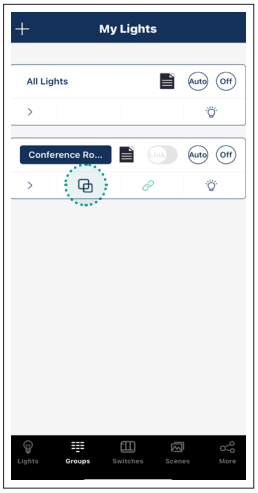
Slide from right to left on a group to show the Delete button, press and confirm to delete.





7.4 Adding / Removing Lights In a Group

1. Tap the Member icon to see all current lights in the group.
2. Select which lights to add or remove.
3. Select “Save” to confirm changes.

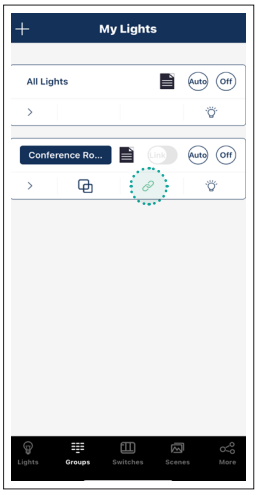


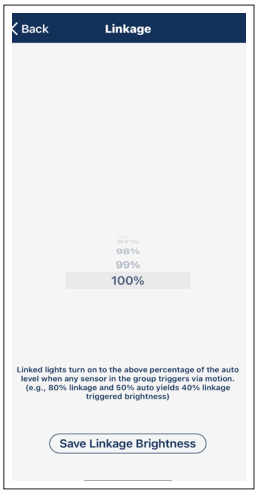
7.5 Linkage

The linkage function allows lights to synchronize with each other. When one light detects motion, it triggers the other lights in its group to turn on. The brightness of these triggered lights is determined by multiplying the auto level by the linkage level. For example, with an auto level of 60% and a linkage level of 50%, the triggered lights will be set to 30% brightness. Similarly, the standby brightness is calculated using the same method; if the standby level is 50%, the light will be at 15% brightness during standby (50% * 60% * 50%).

Select the Linkage icon, adjust the linkage brightness as needed, and then select “Save Linkage Brightness”. The new group will now be visible on the Groups page. See below for details on Linkage.

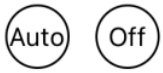
The Link toggle switch enables or disables linkage for the group





7.6 Auto / Off

Select Auto to activate the group in auto mode. Select Off to deactivate the group in manual mode.



7.7 Dimming

Select the Dimming icon to open the Dimming page for the group. Adjustments and settings made here, as well as on the Sensor page, apply to all members of the group (where applicable for sensors). For more details, refer to the Dimming Page and Sensor Page sections.

SCENES

Enables users to create and manage scenes for customized lighting settings.
Select “Scenes” in the bottom pane to access the Scenes page.

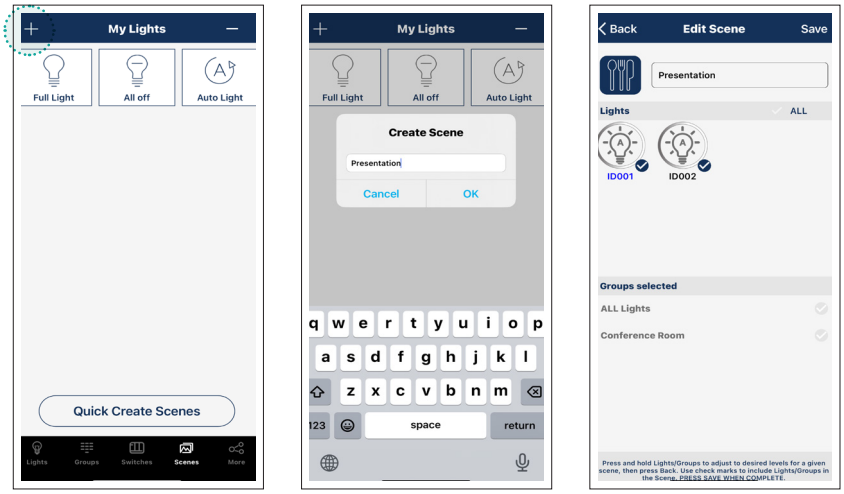
8. Scenes

A scene is a command that sets lights or groups to predetermined manual levels. The app provides three default scenes:

- **“Full Light”:** All lights are set to manual-on at 100%.
- **“All Off”:** All lights are set to manual-off.
- **“Auto Light”:** All lights are set to auto-on.

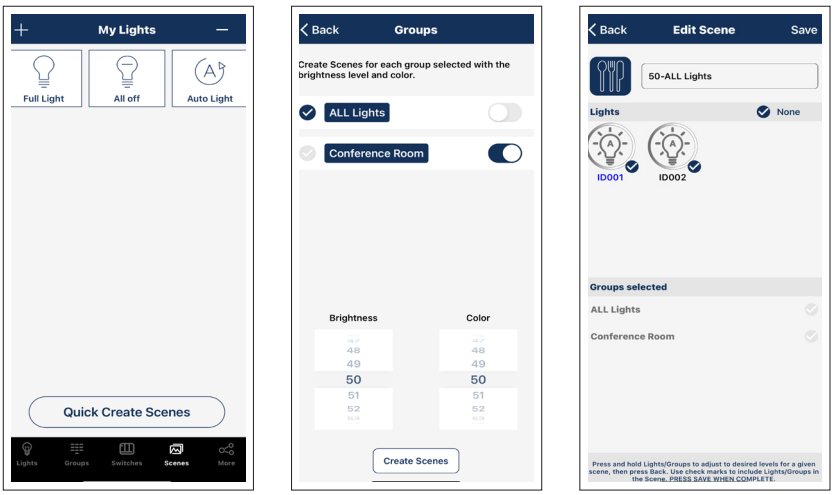
8.1 Creating Scenes

1. Select “+” and enter a name for the scene.
2. Select the lights or groups to be included in the scene.
3. Select a desired icon by tapping the icon next to the scene name.
4. For each selected light or group, press and hold to open the Dimming page to adjust the light to the desired level.
5. Select “Save”.



8.2 Creating a Quick Scene

1. Select the “Quick Create Scenes” button.
2. Select the group and and adjust the brightness level. (Color adjustment is not currently available)
3. Change the name of the scene or press and hold the group to edit it’s brightness.
4. Select “Save” when done.

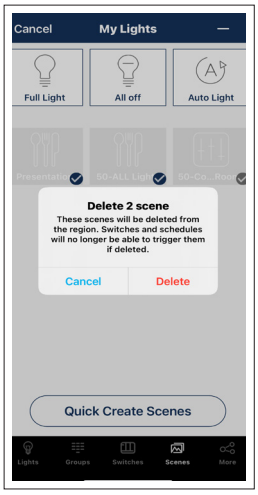


8.3 Editing Scenes

Hold the scene to enter the scene editing page.

8.4 Deleting Scenes

1. Select the “-” button.
2. Select the scenes to be deleted.
3. Press “Delete” to confirm action.



SWITCHES

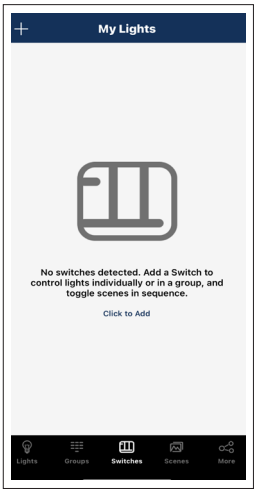
Tap Switches in the bottom pane to access this page.

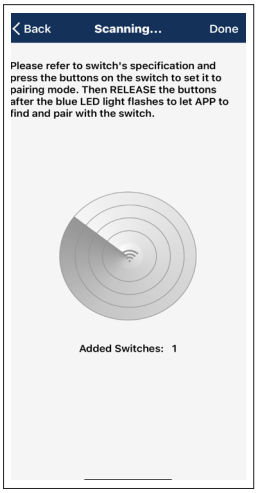
The Switches page is used to add & program the below products -

- *Wall Switches*
- *Ceiling Sensor*
- *Real Time Clock*

9.1 Adding Switches / Ceiling Sensor / Real Time Clock

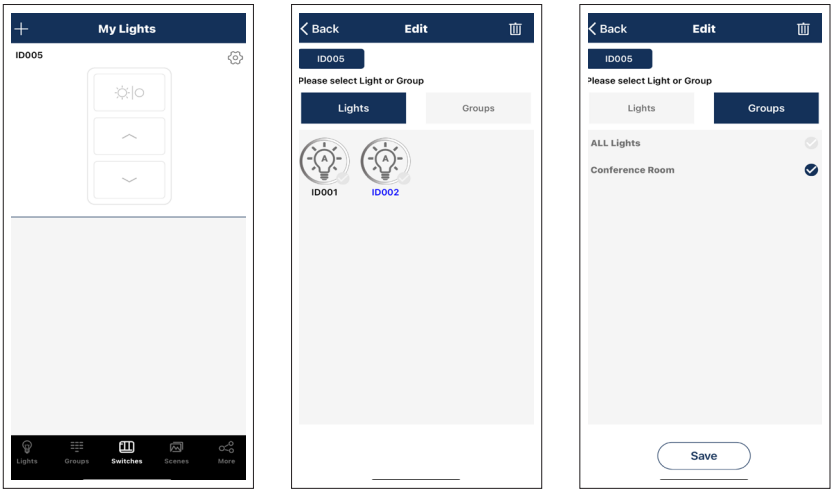
1. Set the wall switch to pairing mode (refer to the wall switch spec sheets for details). Make sure the ceiling sensor / Real Time Clock is powered and within detection range.
2. Select the “+” icon; the switch counter will increase as the app detects switches / ceiling sensors / real time clocks.
3. Select “Done”.





9.2 Programming Switches

1. Select the gear icon.
2. Rename the wall switch by clicking the group name.
3. Choose either Lights or Groups, then select the desired light or group. Note that only one light or group can be assigned to each wall switch.

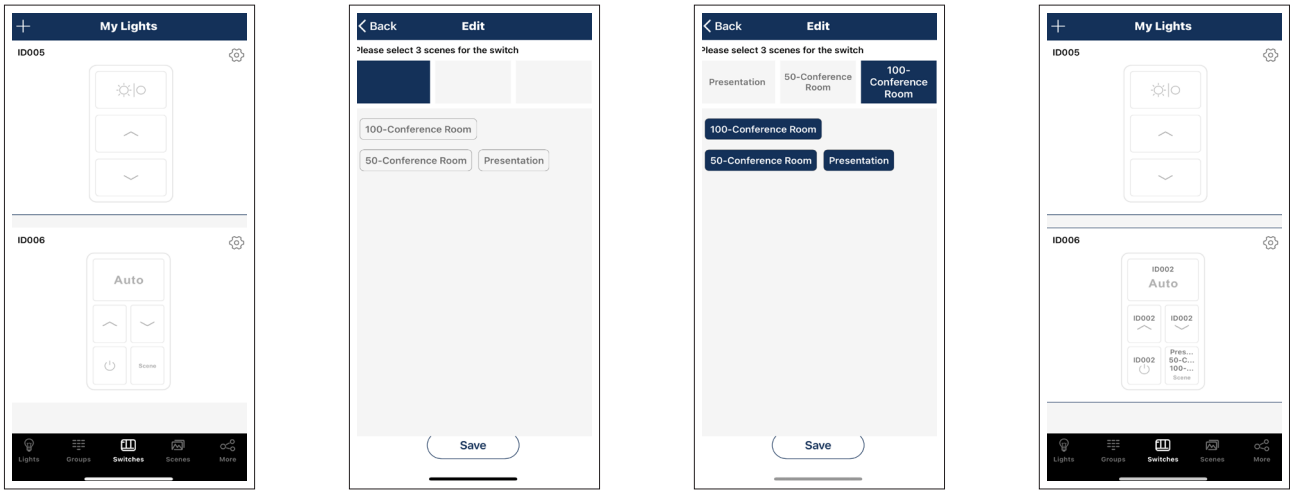


9.2.1 Programming Switches - Scenes

For PT-5WS-BT-B, 3 scenes can be assigned.

1. After assigning a light or group to the switch, a prompt will appear to select scenes.
2. Choose up to three scenes.
3. Select “Save” to confirm.

*Whenever a group or scene is updated, make sure to edit and save the switch settings again to ensure all settings are properly synchronized for correct functionality.



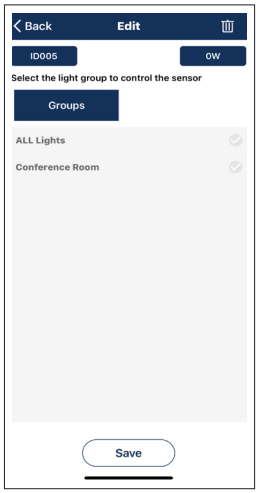
9.3 Programming Ceiling Sensors

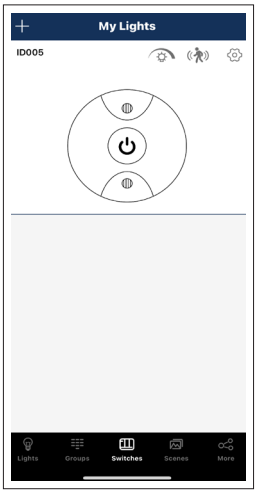
1. Select the gear icon.
2. Rename by clicking on the ceiling sensor name.
3. Input the rated wattage for relay output load for notating purposes.
4. Select “Next Step”.
5. Choose the PIR Sensitivity.
6. Choose the Ultrasonic Sensitivity.
*7. Choose how the ceiling sensor should be triggered.
8. Choose how the ceiling sensor should be held.
9. Choose between Occupancy/Vacancy Mode.
10. Choose the Hold time.
11. Hit the Daylight Harvesting toggle to enable photocell function, enter Daylight Harvesting setting page by selecting the gear icon next to the toggle.
12. Select “Save”.

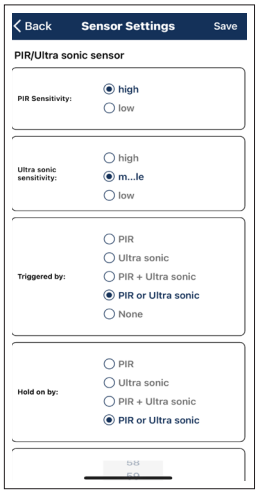
TRIGGERED BY and HOLD ON options:

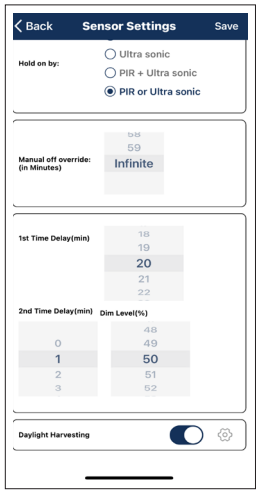
- **PIR:** Only motion detected by the PIR sensor is recognized.
- **Ultrasonic:** Only motion detected by the ultrasonic sensor is recognized.
- **PIR + Ultrasonic:** Motion must be detected by both PIR and ultrasonic sensors to be recognized.
- **PIR or Ultrasonic:** Motion detected by either PIR or ultrasonic sensors is recognized.
- **None:** Similar to vacancy mode, motion will not trigger any action.

The sensor will not activate unless the ambient light falls below the set threshold, even if motion is detected.



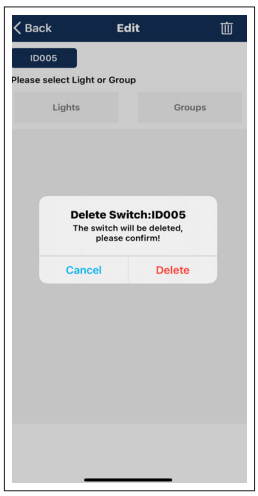






9.4 Deleting Switches / Ceiling Sensors / Real Time Clocks

1. Select the gear icon.
2. Select the trash icon and confirm delete.
3. Select the “Back” icon.



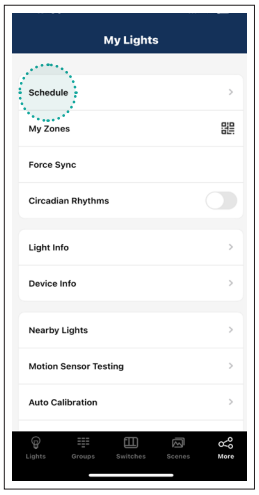
SCHEDULES

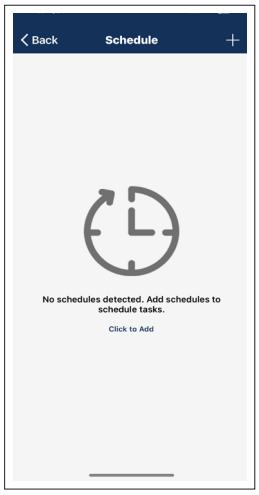
Select “More” in the bottom pane, then select “Schedules” to access this page

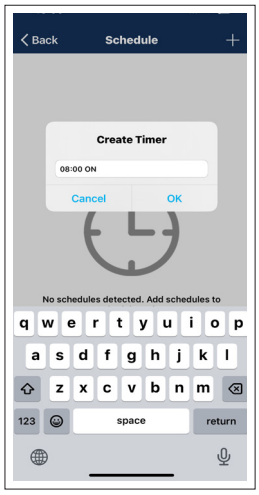
Schedules allow the user to program lighting changes for specific dates and times. Schedules can be applied to an individual light, a group, or a scene.

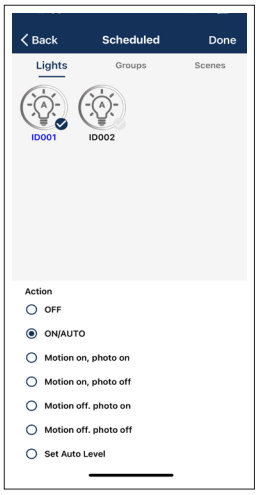
10.1 Create a Schedule

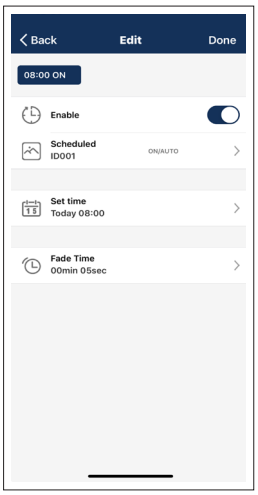
1. Select “+” Icon, and enter a name.
2. Hit the “Enable” toggle.
3. Select “Scheduled”, and choose between Lights / Groups / Scenes, select one light / group / scene, and select the desired action, then select “Done”.
4. Select “Set Time”, and choose whether or not to repeat, and choose the preferred time & date, then select “Done”. If repeating schedule selected, then choose which days out of the week for the schedule to repeat, and choose the desired time for the repeating schedule, then select “Done”.
5. Select “Fade Time”, set to a desired duration, then select “Done”.

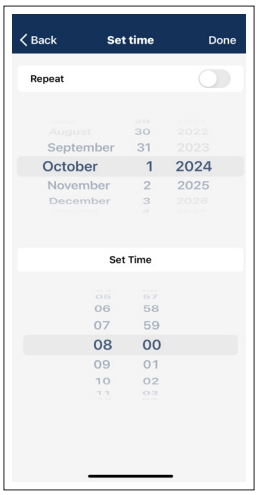


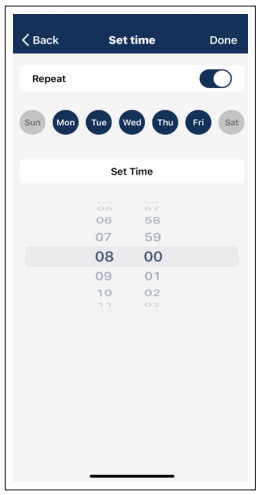






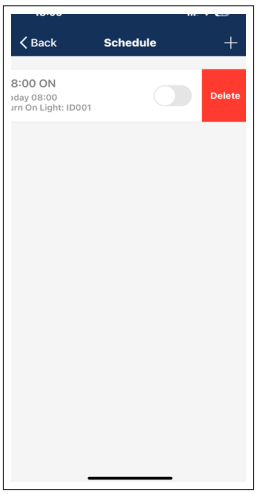


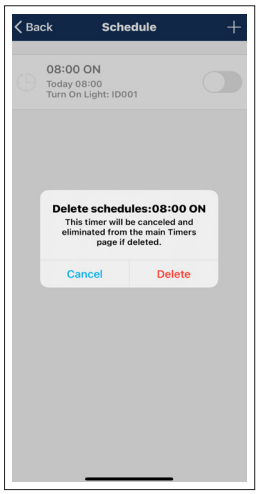




10.2 Deleting a Schedule

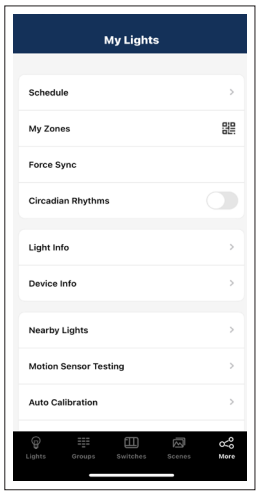
Slide from right to left on a schedule to show Delete button, press and confirm to delete.

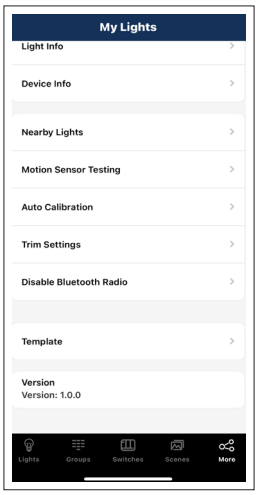




MORE

Accesses additional features like schedules, zones, device information, high/low-end trim adjustments, and other settings.

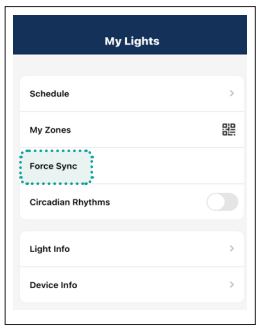




11.1 Force Sync

Data synchronization with the cloud occurs automatically but can be manually triggered from the More page. Tap Force Sync to initiate synchronization. If synchronization fails, a red dot will appear next to the region name.

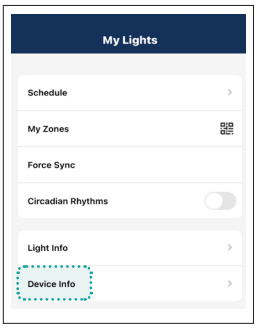
QR Codes are only to be shared after all data are synced.

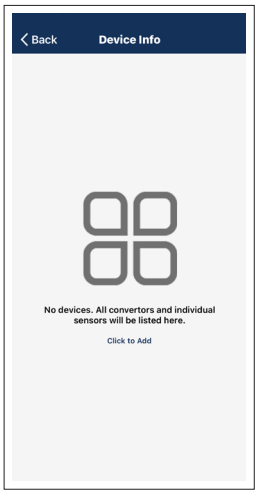


11.2 Device Info

The Device Info page can be used to add the Real Time Clock (PT-RTC-D-BT) & the Gateway Bridge (PT-GTB-D-BT).

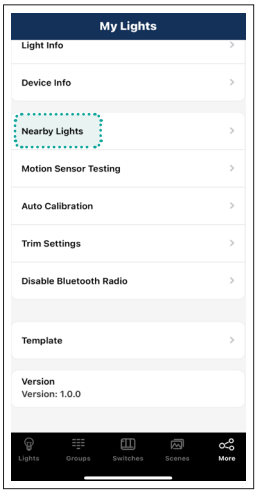
1. Make sure the Real Time Clock is powered and within detection range.
2. Select “Device Info”.
3. Select “Click to Add”, then select the device found, and hit add to confirm.
4. Click “OK” to return.





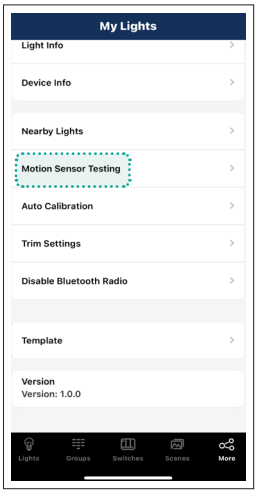
11.3 Nearby Lights

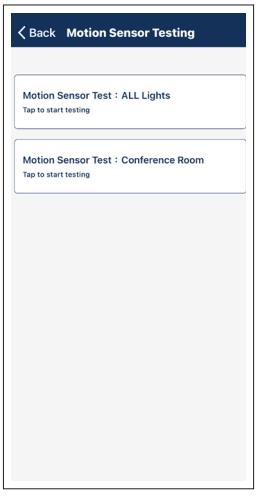
The Nearby Lights function will show all devices within detection range that are not connected to the App.



11.4 Motion Sensor Testing

1. Ensure that all sensor detection areas are clear of motion.
2. Set all lights with motion sensors to auto mode.
3. Select “Motion Sensor Test” to start the testing process. The lights will immediately turn off, and will be in auto-off mode.
4. Move around to test the sensors and trigger the lights to turn on.

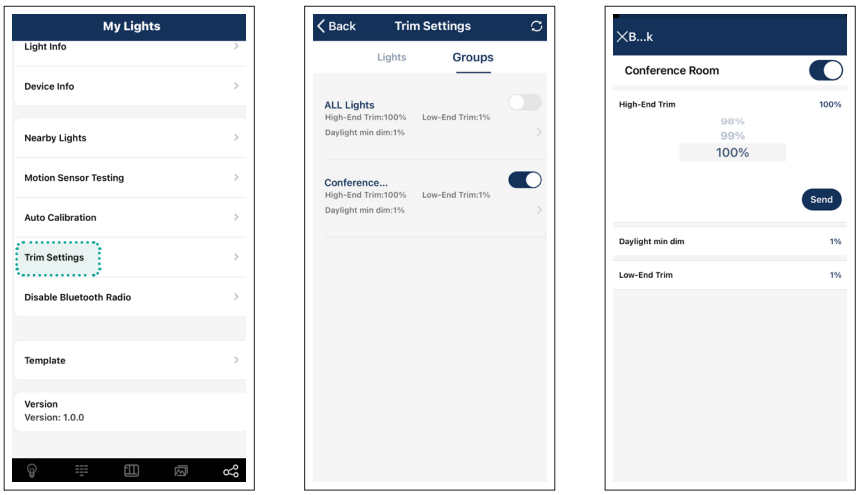




11.5 Trim Settings

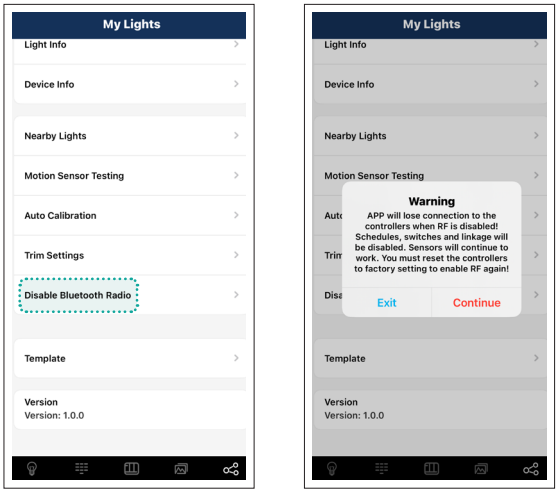
Users can configure the High Trim and Low-End Trim settings to define the maximum and minimum power levels for lights and groups. This setting takes priority over all other dimming settings.

1. Select “Trim Setting” in the More page.
2. Select the light / group.
3. Set the High End Trim / Low End Trim / Daylight Min Dim (for daylight sensors)
4. Select “Send”



11.6 Disable Bluetooth Controls

Disabling the Bluetooth radio disconnects all lights from the app, making it easier to transfer control. To restore connections, sensors will need to be reset.



ADDITIONAL INFO

12.1 Capacities
Luminaires: Each zone has a limit of 100 lights (nodes). There is no limit to the number of zones.
Group: A luminaire can be a member of up to 20 groups.
Scene: Up to 32 scenes can be assigned to a single light, while up to 127 scenes can be assigned to a zone.
Schedule: Up to 32 schedules can be assigned to a zone.
Wall Switch: Up to 32 switches can be assigned to a zone.

12.2 Decommissioning / Resetting
Method 1: Delete device from the App.
1. Delete device from the Light page, see 6.3 on how to delete lights.

Method 2: Power Reset from the product.
1. Ensure all lights are turned off.
2. Turn the lights on for 8 seconds, then power them off for 10 seconds.
3. Immediately turn the lights on and off, then wait for another 10 seconds. Repeat this process three times.
4. Turn the lights on for 8 seconds, then power them off for 10 seconds. Repeat this process twice.
5. Turn the lights back on. Blinking lights indicate a successful factory reset, which deletes all previous settings and data for these lights.

Note: Waiting at least 10 seconds ensures the fixture is completely powered off. If the driver can cut power within 3 seconds, you may reduce the waiting period to 3 seconds to expedite the reset process.

Method 3: Reset Button
Some products have a reset button.
1. Press and hold for 3 seconds.