



POWERED BY ILLUMUS® BRANDS

Commissioning Guide

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NUROAir Bluetooth Controls

Seamlessly Connect, Effortlessly Control

Transform the way you manage your lighting with NUROAir, the ultimate lighting control system designed for ease and efficiency. With NUROAir, you can group fixtures, manage settings, create schedules, and automate your lighting—all from the palm of your hand.



Key Features

- **Easy Setup:** Intuitive and user-friendly interface ensures a hassle-free setup process.
- **Fixture Grouping:** Effortlessly group your lighting fixtures for centralized control.
- **Customizable Settings:** Adjust brightness, color temperature, and more to create the perfect ambiance for any occasion.
- **Scheduling:** Set custom schedules to automate your lighting and enhance energy efficiency.
- **Automation:** Use advanced automation features to sync your lighting with daylight harvesting, occupancy sensing, and time scheduling.

NUROAir App Download

To download the NUROAir app, scan the QR Codes below or search for 'NUROAir' on the App Store for iPhone or Google Play Store for Android. When starting the app for the first time, grant permissions for access to photos and Bluetooth as they are required for proper operation of the system.

NUROAir App



Download on
the App Store



Get it on
Google Play



Recommended Commissioning Procedure

1. Preparation Work

- a) Define Control Intent Narrative (CIN) and Sequence of Operations (SOO)
- b) Install Lights and Test Power

2. Set Lights, Groups, and Scenes

- a) Create Zones and Generate QR Codes
- b) Add Lights
- c) Group Lights
- d) Create Scenes
- e) Add Switches
- f) Set Schedules

3. Sensor Configuration

- a) Set Sensor Parameters
- b) Set Background Light Levels
- c) Set Auto Mode Levels

4. Project Delivery

- a) Share QR Codes

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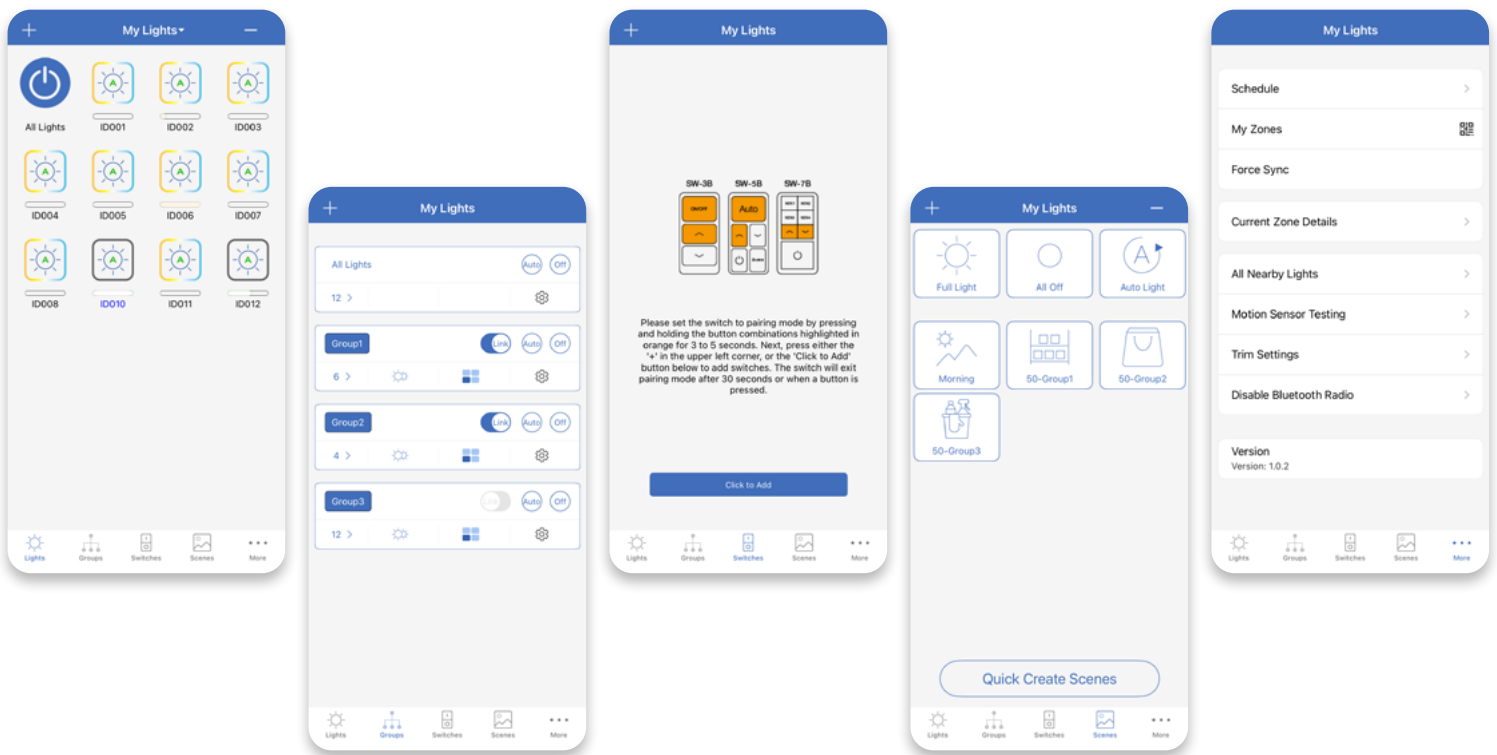
Control Intent Narrative (CIN) and Sequence of Operations (SOO)

Prior to purchasing and installing any NUROAir Bluetooth Control system, facility managers should define owner requirements and control system goals with a design document called the Control Intent Narrative (CIN) and Sequence of Operations (SOO). This will include facility and/or space purposes, operating schedules, applicable codes and standards, integration, project goals, and preferred vendors. Two industry standards that can assist in creating the CIN and SOO are:

1. ANSI/IES LP-6-20, Lighting Control Systems: Properties, Selection, and Specification
2. ANSI/IES LP-16-22, Documenting Control Intent Narratives and Sequence of Operations

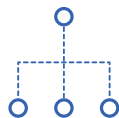
NUROAir APP Navigation

NUROAir app interface has five pages on the bottom menu for easy light settings and controls.



Lights

Lights connections, removals, individual light settings and controls, etc.



Groups

Groups creations, deletions, grouped lights settings and controls, etc.



Switches

Switch connections, removals, settings and controls, etc.



Scenes

Scenes creations, deletions, settings and triggers, etc.

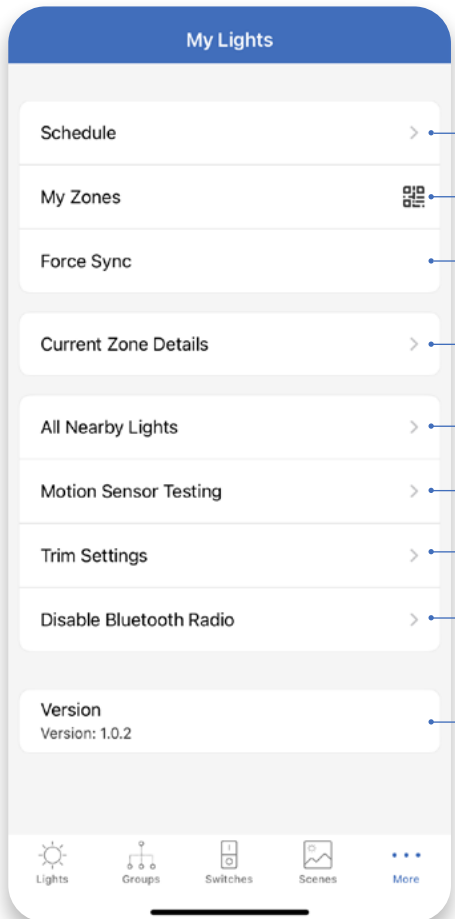


More

Access to Zones, Schedules, System Info, and additional settings, etc.

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Additional system information and settings in the More page.



The screenshot shows the 'My Lights' app interface. The top bar is blue with the text 'My Lights'. Below it is a list of settings: 'Schedule', 'My Zones', 'Force Sync', 'Current Zone Details', 'All Nearby Lights', 'Motion Sensor Testing', 'Trim Settings', 'Disable Bluetooth Radio', and 'Version'. At the bottom, there is a navigation bar with icons for 'Lights', 'Groups', 'Switches', 'Scenes', and 'More'. Blue lines connect each setting in the list to its corresponding description on the right.

- Schedule:** Schedules creations, deletions, settings and managements
- My Zones:** Create, delete, or switch zones. Check and share QR Codes
- Force Sync:** Data synchronization
- Current Zone Details:** Information about all lights, groups and scenes in the zone
- All Nearby Lights:** Information about all nearby lights
- Motion Sensor Testing:** Quick test the function of motion sensors
- Trim Settings:** Adjust trim setting parameters
- Disable Bluetooth Radio:** Disable all Bluetooth connection for quick control transfer
- Version:** App version information

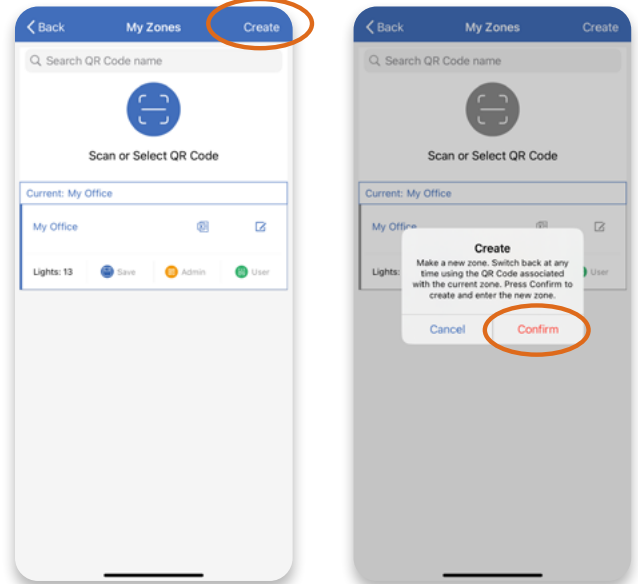
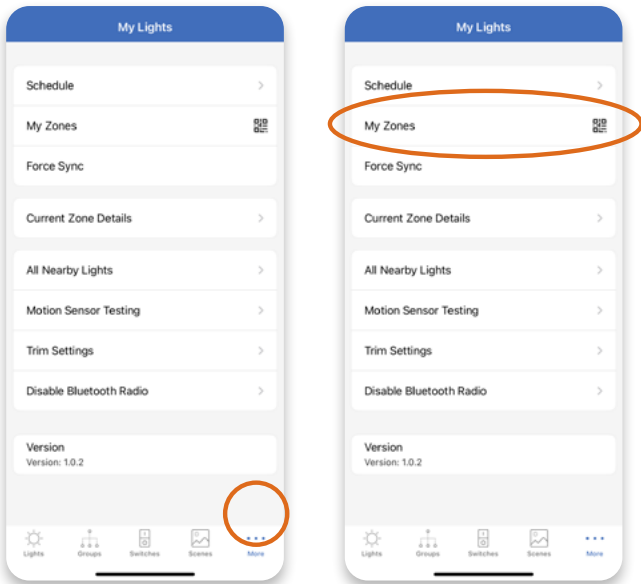
Zones

Each zone operates as an independent Bluetooth Mesh System containing all the associated lights, groups, switches, scenes and schedules. One zone can contain up to 100 lights (including ceiling mount sensors), 32 switches, 127 scenes, and 32 schedules. Different lights can be grouped together in a zone. There is no limitation on the number of groups that can be created in a zone by the system. A single light can be a member of up to 20 groups. Multiple zones can be created for larger installations. You can create an unlimited number of zones using NUROAir lighting controls system.

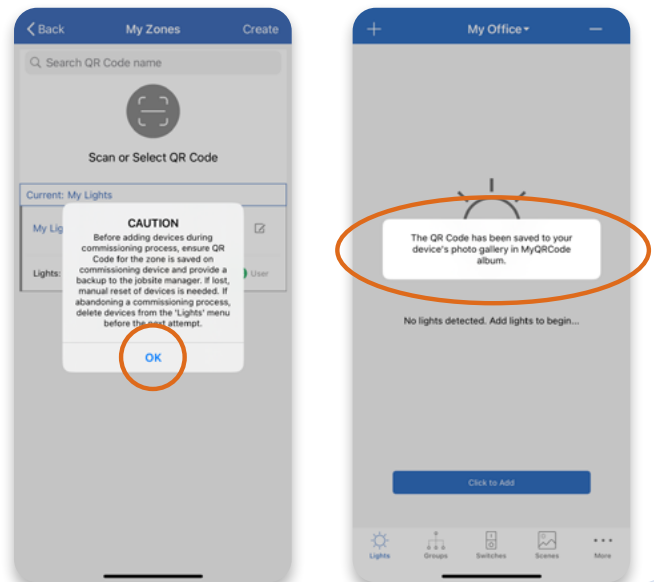
Create a Zone and Generate QR Codes

After installing and starting the NUROAir app the first time, a zone named 'My Lights' is automatically created. Follow below steps to create a new zone and generate QR codes.

1. Press **More** at the bottom menu of the app, then press **My Zones** to go to the My Zones page.
2. On the My Zones page, press **Create** at the top right, then click **Confirm** in the prompt to continue.



3. Input the name of the new zone (max. 12 characters suggested) in the text block, then press **OK** to continue.
4. Press **OK** in the prompt to confirm creation. The notice on the screen informs where the zone QR Codes are saved in the device.

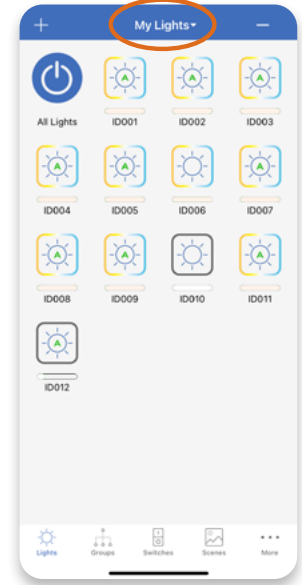
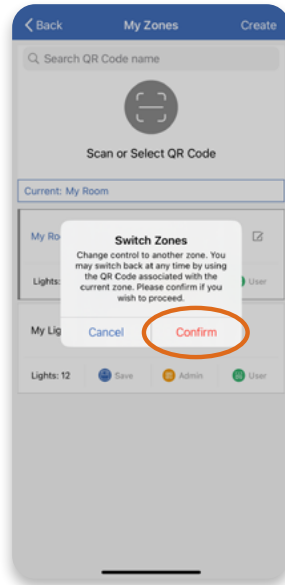
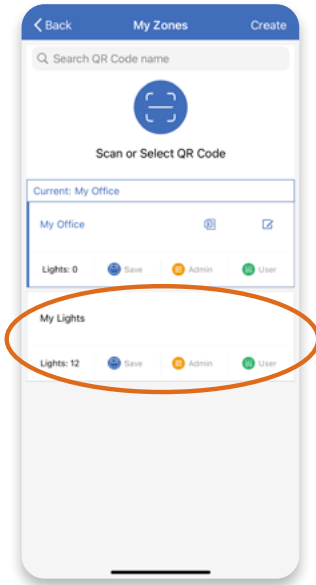


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Switch Zones

For sites with multiple zones, switch between them to control the lights in each separate zone. The zone currently in use is labeled as Current zone and displayed on the top on the My Zones page.

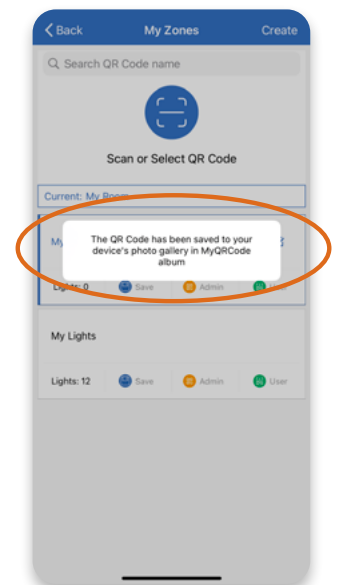
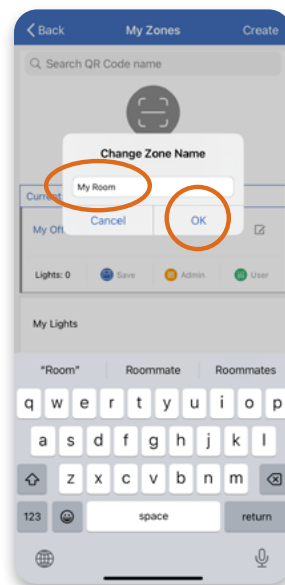
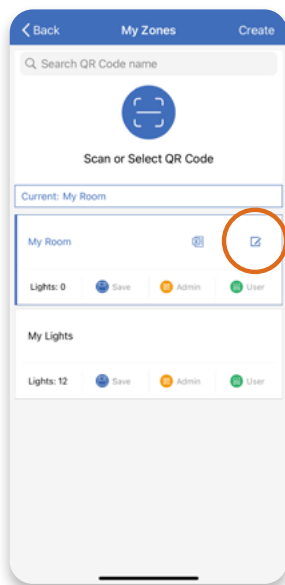
1. On the **My Zones** page, select the block of the zone to be switched into.
2. Press **Confirm** in the prompt to confirm switching.
3. After switching zones, the zone name will appear at the top of the lights page.



Rename a Zone

The name of the zone can be updated after creation. For easy differentiation, we recommend you do not name two different zones with the same name. It is recommended to keep the zone name within 12 characters for easy recognition on various pages of the app.

1. On the My Zones page, select the zone to be renamed as Current zone, then press the **Edit** icon on the right of the box.
2. Input the new name in the prompt, then press **OK** to finish. The notice on the screen informs where the renamed zone QR Codes are saved in the device.



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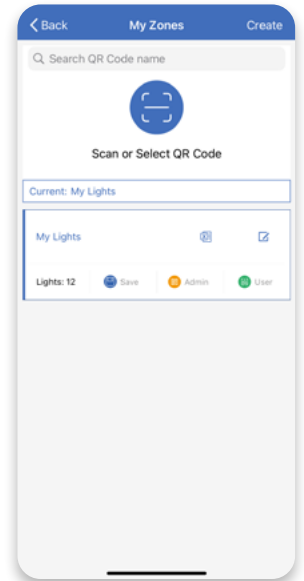
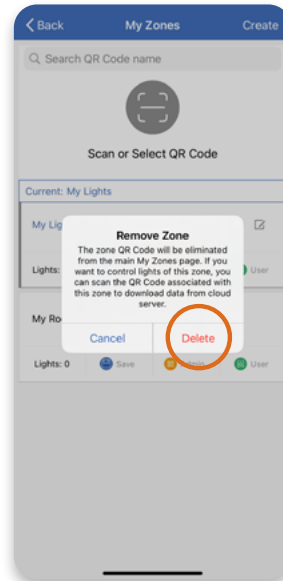
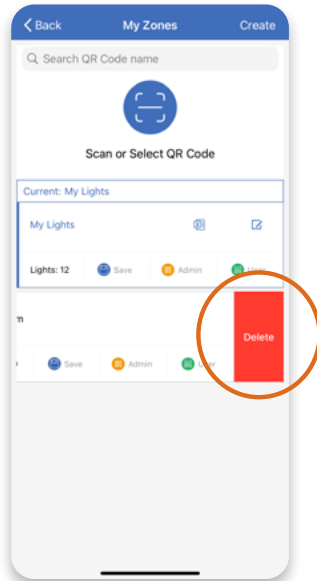
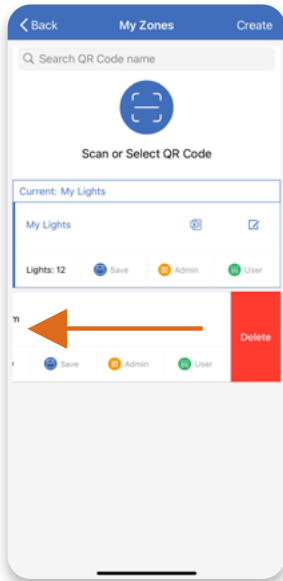
Delete a Zone

After a zone has been deleted from the commissioning device, it is still saved on the cloud and can be accessed again by scanning the admin QR Code.

WARNING: QR Codes cannot be retrieved if lost! Ensure one copy of the admin QR Code is saved safely. If a zone has been deleted and the admin QR Code has been lost, all the lights contained in the zone will have to be restored to factory settings in order to be accessible.

The current zone in use cannot be deleted. Switch zones first if you need to delete it. Follow below steps to delete a zone.

1. On the My Zones page, swipe left on the zone to be deleted. Press the **Delete** button on the right.
2. Press **Delete** in the prompt to confirm deletion. Then the zone will be removed from the My Zones page.



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QR Codes

After one zone is created, the Admin and User QR Codes of the zone are automatically generated. The QR Code is used as the account password and provides access to the zone. The Admin QR Code grants access to all the control and edit operations for a zone. Provide the Admin QR Code to the person responsible for ownership. The User QR Code grants access to the control operations for a zone without any editing rights.

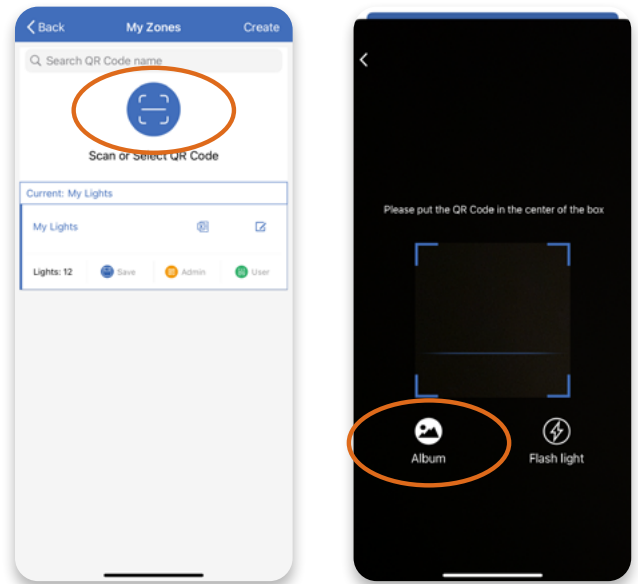
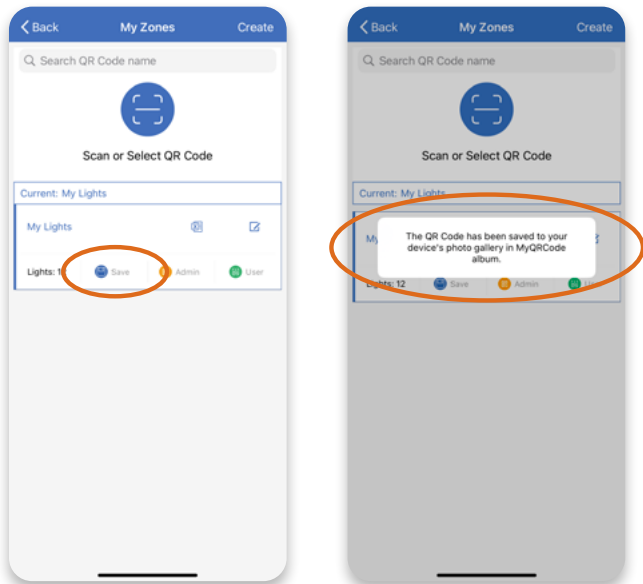
WARNING: The Admin QR Code needs to be stored in a secure place and cannot be retrieved once lost!

Save QR Codes

On the My Zones page, press the **Save** icon to save the QR Codes of the current zone. The notice on the screen informs where the QR Codes of the zone are saved in the device.

Scan QR Codes

On the My Zones page, press the **Scan** icon to scan a QR Code shared or stored in the Album of the device.

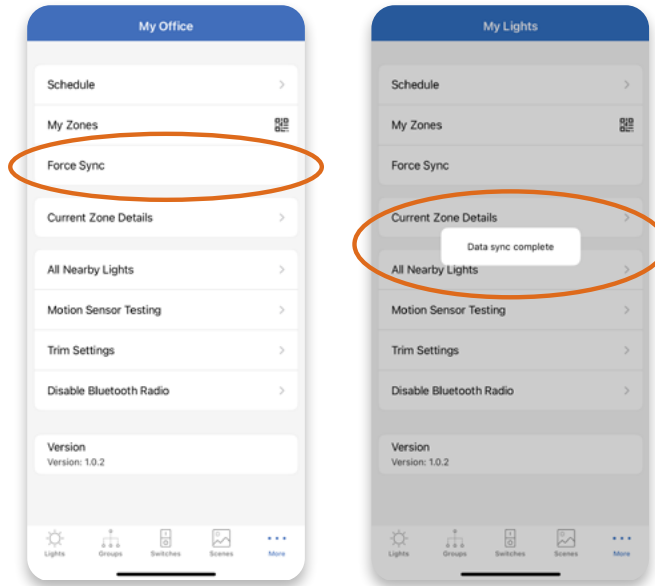


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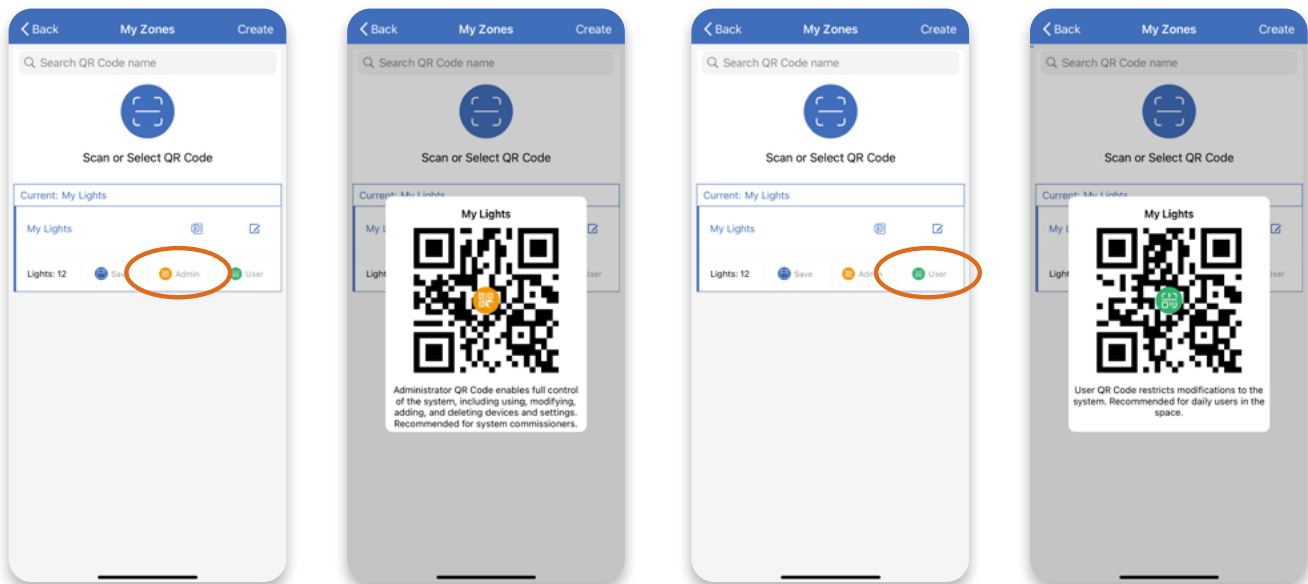
Share QR Codes

Ensure the commissioning data has been synchronized to the cloud before sharing QR Codes. A red dot in the Zone name window indicates that the data needs to be synchronized. The app will try to sync the data automatically whenever an update has been made to the zone. You may also press the Force Sync button on the More page to sync manually. The commissioning device must have a good internet connection to sync the data.

1. Before sharing QR Codes, please make sure the commissioning data has been synchronized by pressing the Force Sync button when the commissioning device is with internet connection.



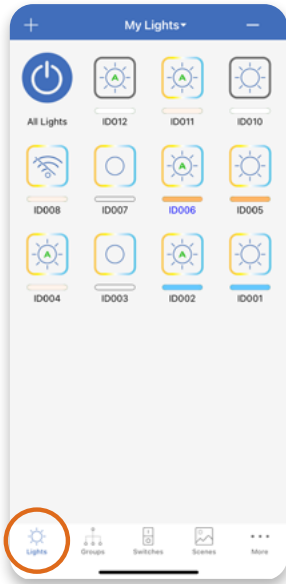
2. On the My Zones page, press the **Admin** icon to share and grant all the lighting control and editing rights of the zone. Press the **User** icon to share and grant only the lighting control rights of the zone.



Lights

Understanding the Light Icons

Press **Lights** on the bottom menu to see the lights contained in the current zone. The lights are displayed with different icons, which change dynamically to reflect the current status of the lights.



No Signal, Non-Tunable Light



No Signal, Tunable Light



Auto On, Non-Tunable Light



Auto On, Tunable Light



Auto Off, Non-Tunable Light



Auto Off, Tunable Light



Manual On, Non-Tunable Light



Manual On, Tunable Light



Manual Off, Non-Tunable Light



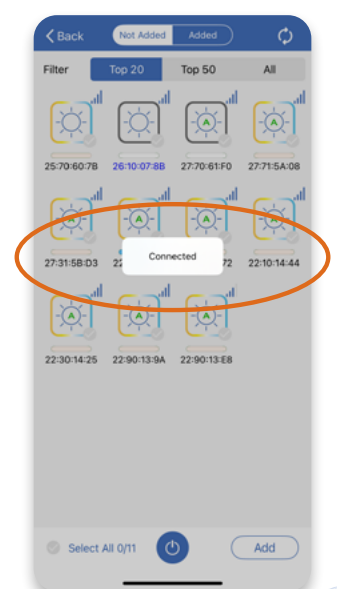
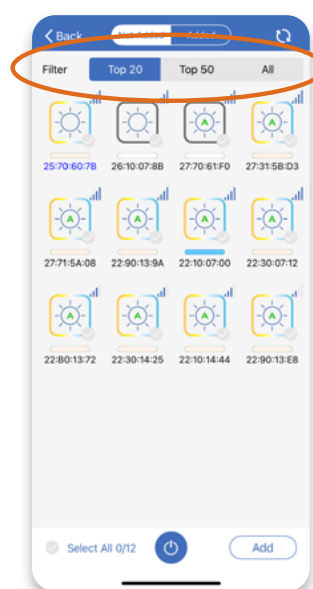
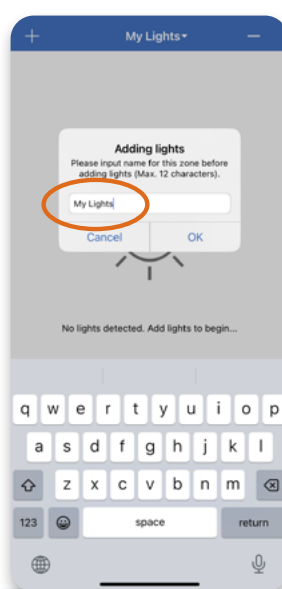
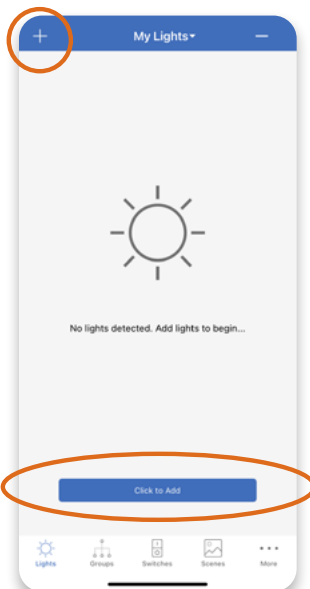
Manual Off, Tunable Light

Add Lights

After a new zone is created, add lights into the zone to control them. Each zone can contain up to 100 lights (a ceiling mount sensor is counted as a light also). Each light can be added into one zone only. Make sure all lights to be added are receiving power and within the detection range (Approximately 50 ft).

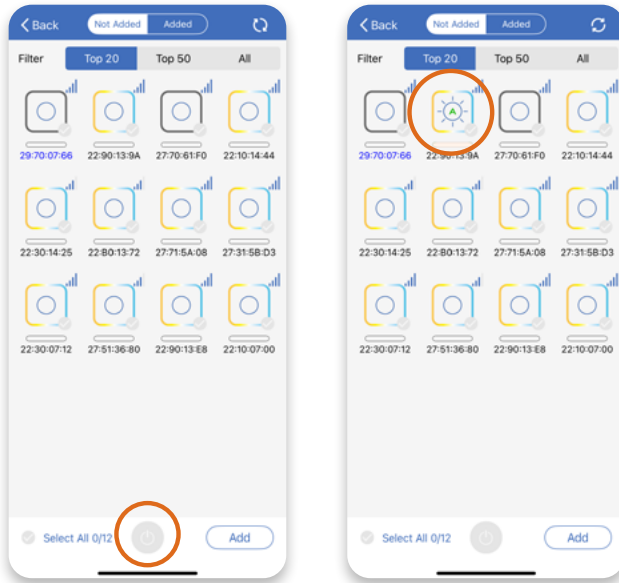
NOTICE: Do not turn on more than 100 lights at the same time. Commissioning performance may deteriorate if there are more than 100 factory-setting lights powered on at the same site.

1. On the Lights page, press the **Click to Add** button on the bottom or the **+** icon on the top left to add lights. Please rename the zone first if you are in the system default zone of **My Lights**.
2. Filter between **Top 20**, **Top 50**, and **All** on the top to check available lights to add. Wait until **Connected** shows on the screen before moving on to the next step.



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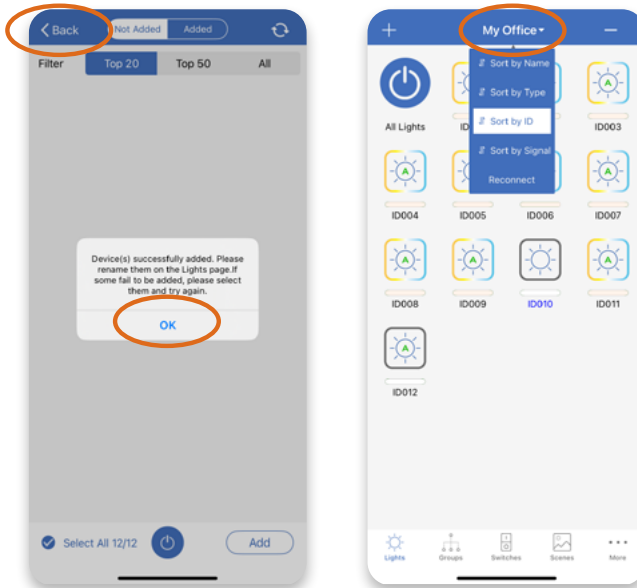
3. There are two ways to locate a light on the Lights page before adding: 1) Press the **Power** button to turn off all lights then press the icon of the single light to turn it on. 2) Quickly double press the icon of the single light then the corresponding light fixture will keep flashing until you press the icon again.



4. Check the box of each light to be added one by one or check **Select All** to add all lights. Click **Add** button on bottom right, then click **Add** in the prompt to continue.



5. Press **OK** in the prompt to finish adding lights then press **Back** to see all lights added. Press the zone name on the top to sort the lights as desired on the lights page.



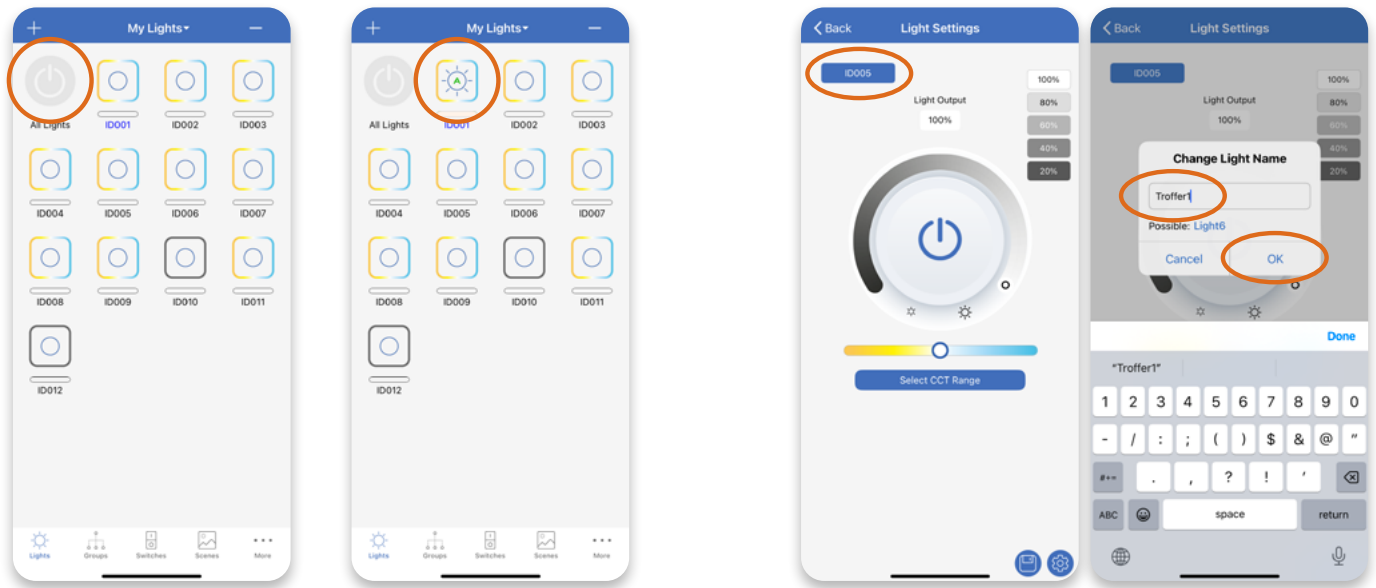
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Rename Lights

The lights detected and added are named with their factory set ID initially. It is recommended to rename each light after adding to a zone and keep the light name within 6 characters for easy recognition on various pages of the app.

NOTICE: Please rename each light in a way for easy identification and differentiation from others after adding them in a zone.

1. There are two ways to locate a light on the Lights page before renaming:
1) Press the **Power** button to turn off all lights then press the icon of the single light to turn it on. 2) Quickly double press the icon of the single light then the corresponding light fixture will keep flashing until you press the icon again. After locating the light, press and hold the icon of this light to continue.
2. Select the box with the existing light name, then input the new name in the prompt. Click **OK** to confirm the name change.



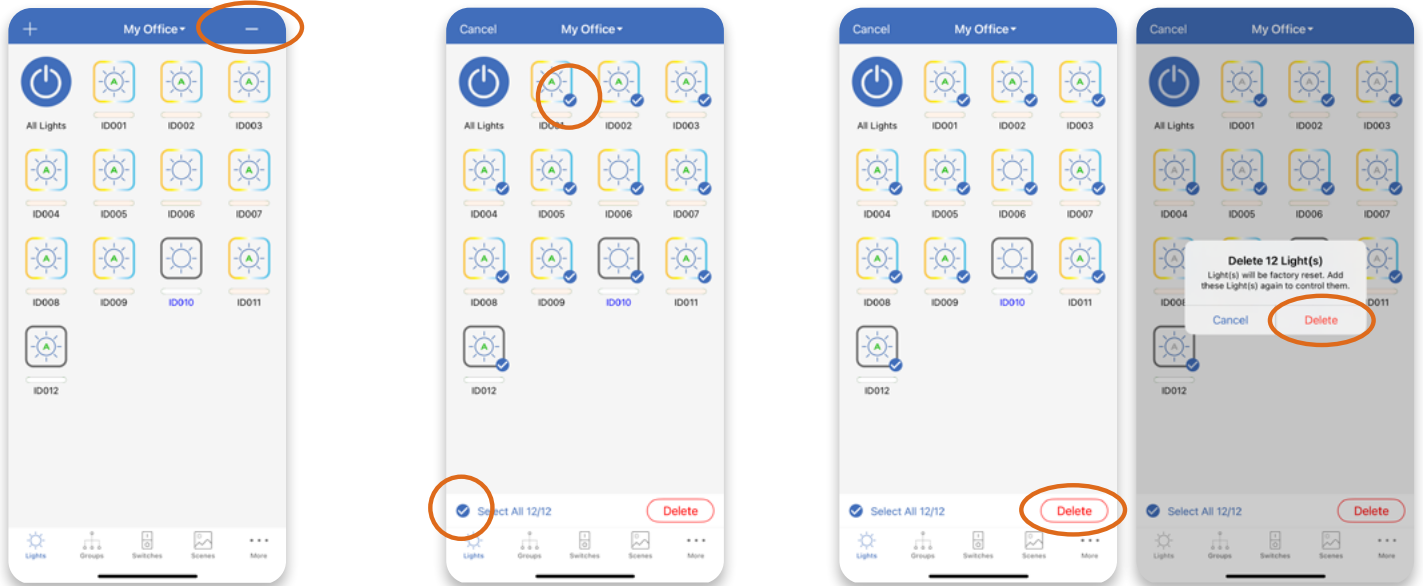
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Delete Lights

Lights can be deleted from a zone if not needed or if they need to be added into another zone. Lights will be factory reset after deleting.

NOTICE: Please make sure the lights are connected before deleting them. In the case of deleting lights without signal, these lights will not be removed successfully from the current zone thus cannot be detected for adding into another zone.

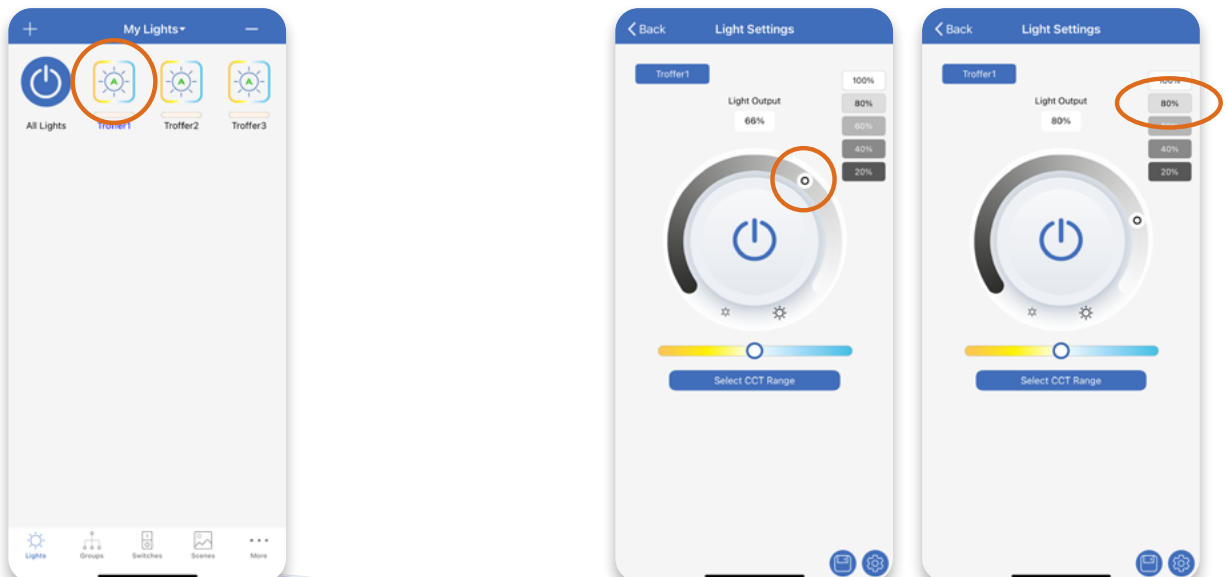
1. On the Lights page, press the — icon on the top right to delete lights from the zone.
2. Check the box of each light to be deleted one by one, or check **Select All** to delete all lights.
3. Press the **Delete** button on bottom right. Then press **Delete** in the prompt to confirm and finish deletion.



Light Settings

The light brightness and color can be adjusted on the Light Settings page. Each update will overwrite the previous settings of the light. When the light is switched on manually, it will be turned on with the last level of brightness and color if the light is not working in Auto Mode. If the light is working in Auto Mode, it will be turned on with the Auto Mode Level.

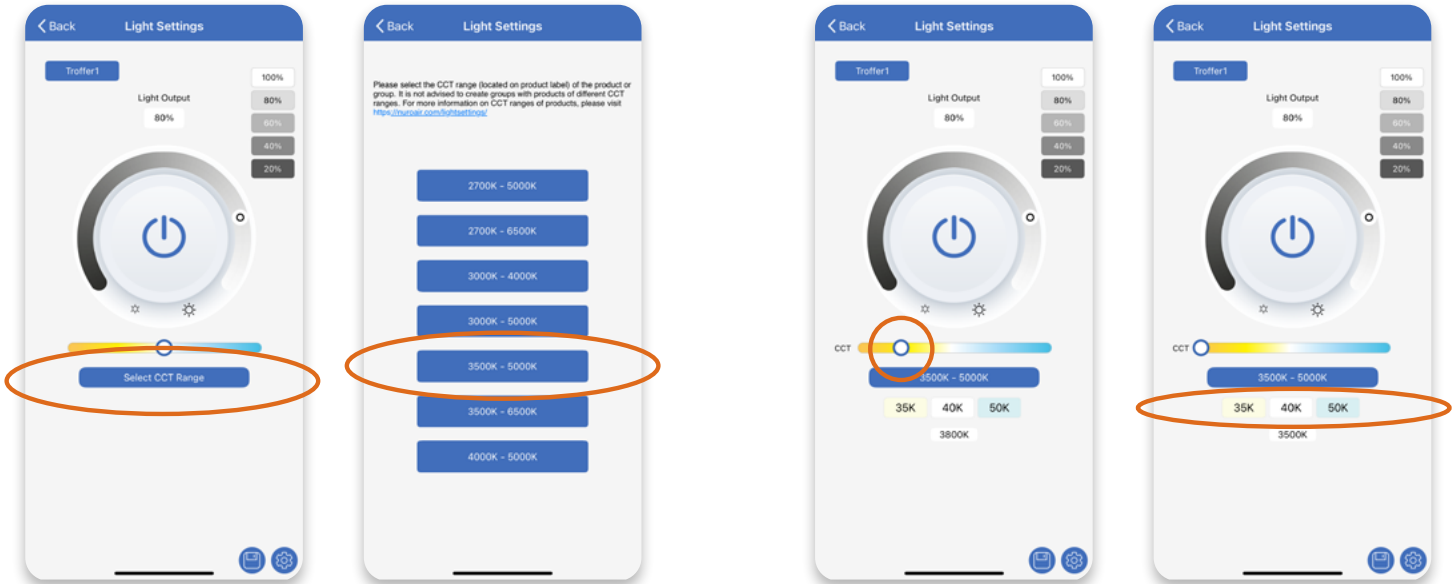
1. To change light brightness or color, press and hold the icon of a light to go to the Light Settings page.
2. Slide the button on the dimming wheel or press one of the buttons on the top right to set brightness to the desired level.



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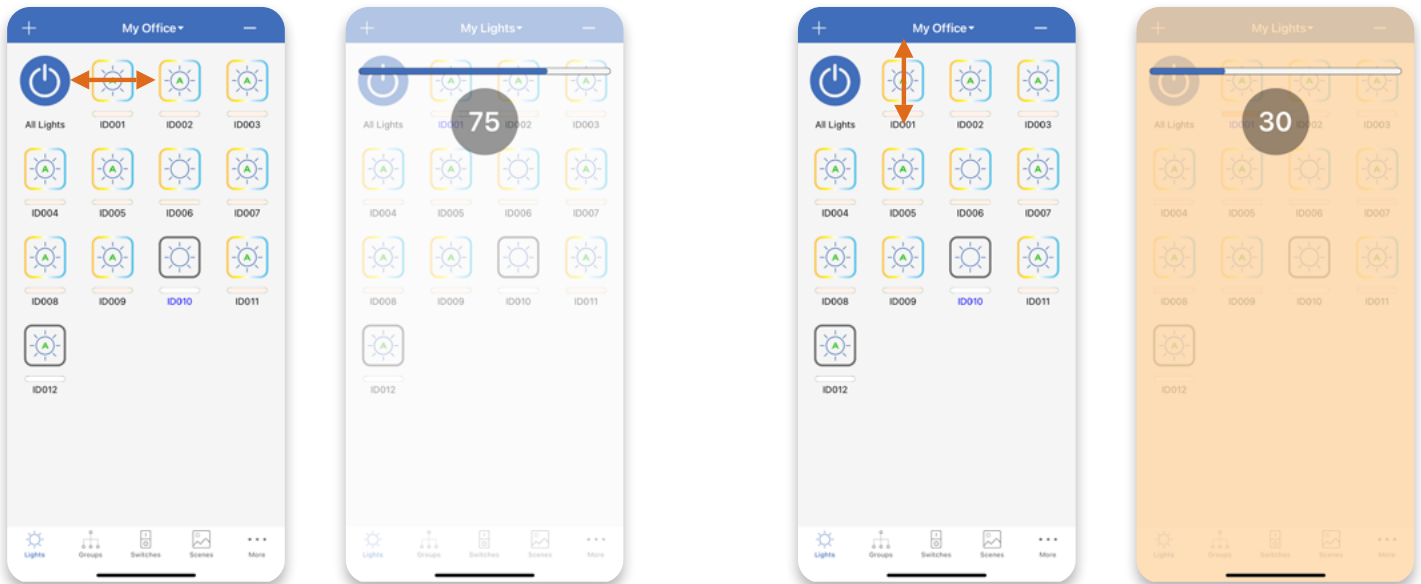
3. For a tunable light, press the **Select CCT Range** button to select the correct CCT range first. The CCT range can be found on the product label or at <https://nuroair.com/lightsettings/>

4. Slide the button on the CCT bar or press one of the buttons on the bottom to adjust color to the desired value.



Quick Dimming and Color Tuning

A light can also be quickly dimmed or tuned directly on the lights page. Just press a light icon and immediately slide left/right to adjust the brightness, or up/down to adjust the light color.



Auto Mode

Lights with motion sensor or photo sensor connected and enabled can be automatically turned on/off or dimmed up/down in Auto Mode according to the sensor settings applied. Lights in Auto Mode have a letter A in the center of their icons on the app.

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Lights without any motion sensor nor photo sensor connected and enabled cannot work in Auto Mode and need to be turned on/off or dimmed up/down manually. Lights in Manual Mode don't have the letter A in their icons on the app. Manual mode can be triggered in a few other ways (i.e.: scene buttons, schedules, and toggle buttons etc.).

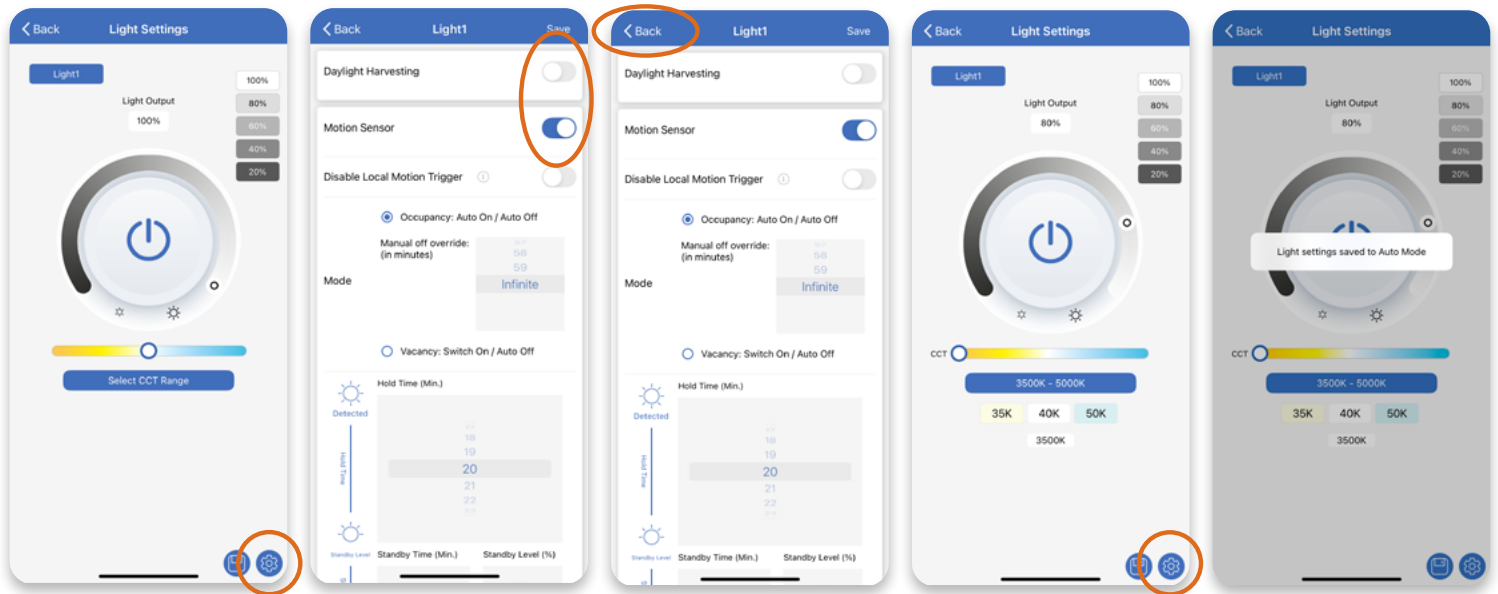
NOTICE: In the case that a light is not installed with any motion sensor nor photo sensor, user can still toggle on the Motion Sensor or Daylight Harvesting on the Light Settings page, then although there will be the letter A shown in the center of the light icon in this case, the light cannot work in Auto Mode still, unless associated with a ceiling mount sensor or grouped and linked together with another light working in Auto Mode.

Save Auto Mode Level

Lights working in Auto Mode will return to their preset levels of brightness and color each time they are powered on, turned on by pressing the power button in the app, or by pressing the Auto button on the physical switch. This preset level of brightness and color is Auto Mode Level.

The initial brightness and color settings of a light after adding to the app is 100% brightness and 50% CCT. Select your desired brightness or CCT of a tunable light and press the Save button on the bottom of the Light Settings page to save it as the Auto Mode Level.

1. Press the **Configuration** button on the bottom right and ensure Motion Sensor is enabled while Daylight Harvesting is disabled.
2. Press **Back** to the Light Settings page, adjust the brightness and CCT as desired, then press the **Save** button on the bottom to save the current settings as the Auto Mode Level.



NOTICE: When saving Auto Mode Level, it is suggested to disable Daylight Harvesting function or exclude the ambient light impact by shielding the sunlight or you can make this setting during nighttime for maximum energy saving.

Each time you press the 'Save' icon on the Light Settings page, the Auto Mode Level is updated to be the same as the current running level and any previously saved Auto Mode Level is overwritten at the same time.

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Sensor Settings

Daylight Harvesting Photo Sensor

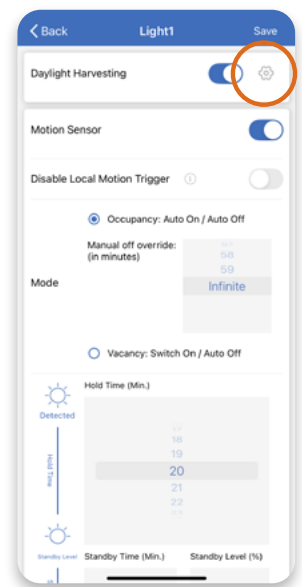
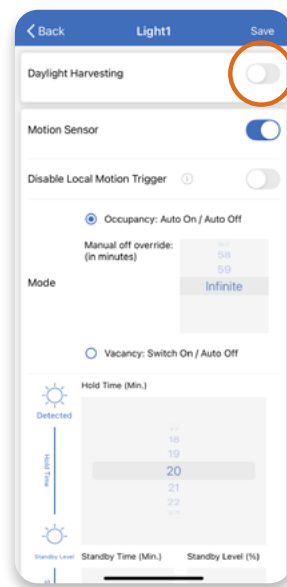
Lights connected with Daylight Harvesting photo sensor and with the function enabled can be automatically dimmed up/down along with the change of ambient light level, in order to keep the measured light level in the environment maintained the same as the preset Auto Mode Level. Do not enable 'Daylight Harvesting' function if Daylight Harvesting sensor is not connected, otherwise lights may keep dimming randomly because correct ambient light level cannot be detected.

Follow the below steps to enable and adjust Daylight Harvesting parameters.

1. Press the **Configuration** button on the bottom of the Light Settings page.



2. Toggle the button to enable **Daylight Harvesting**. Press the **Configuration** icon to adjust Daylight Harvesting parameters.

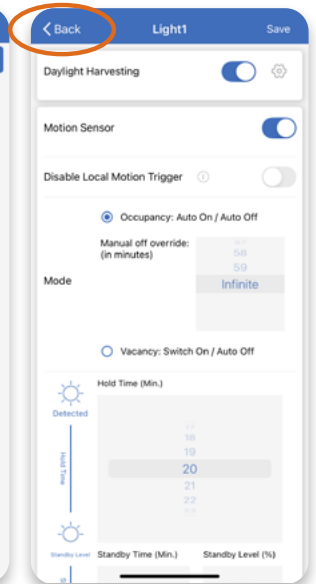
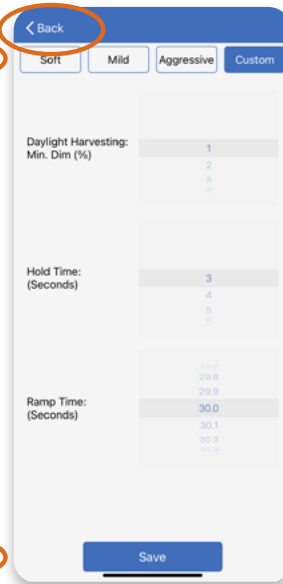
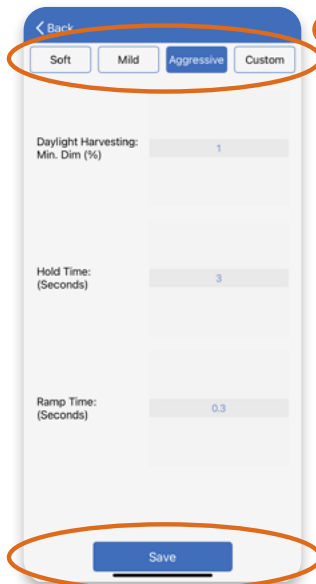


3. Select one of the preset **Soft**, **Mild** and **Aggressive** parameters or select **Custom** and adjust the parameters to the desired values, then press the **Save** button on the bottom to finish. Press **Back** on top left to exit the pages.

Daylight Harvesting Min. Dim: the minimum brightness level that photo sensor can dim a light to. If you set the value lower than the 'Low-End Trim', then it will be disregarded, and the 'Low-End Trim' will operate instead.

Hold Time: The time that the photo sensor will wait to dim the light after an ambient light change is detected.

Ramp Time: The speed that the photo sensor will dim the light after the Hold Time.



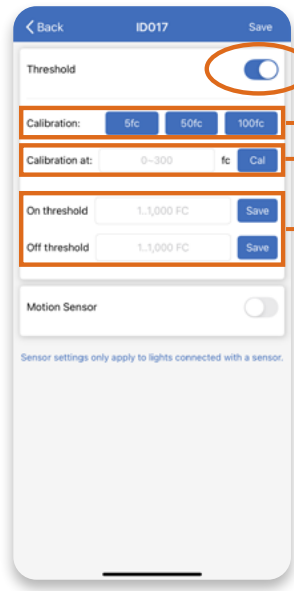
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Photocell Threshold Sensor

Lights connected with Photocell Threshold sensors can be automatically turned on/off along with the change of ambient light level according to the threshold settings applied.

Follow the below steps to enable and adjust Daylight Harvesting parameters.

1. Press the **Configuration** button on the bottom of the Light Settings page.
2. Toggle on the button to enable **Threshold**, then adjust the threshold values to your desired parameters. The lights will turn on/off several times to auto calibrate for about 15 secs. before finish.



Press the **5fc/50fc/100fc** button to set the corresponding value as ON threshold respectively and the lights will turn on/off several times to auto-calculate the OFF threshold. The prompt 'calibration complete' will be shown on the screen after the process is finished.

User may input a specific fc value in the box as ON threshold and press the '**Cal**' button to calculate the OFF threshold based on it. The prompt 'calibration complete' will be shown on the screen after the process is finished.

User may also manually input the ON / OFF threshold and press the '**Save**' buttons to set the values without calibration.

NOTICE: When lights working with both Photocell Threshold and Motion Sensor functions per settings applied, these lights will automatically turn on when the ambient light level drops below the On threshold value, and will dim down to Standby Level percentage of the last running level after Hold Time without motion detection. They will not turn off after Standby Time for security purposes. When the ambient light level increases above Off threshold value, the lights will remain off and motion will not trigger the lights on in this case for energy saving consideration.

Motion Sensor

Lights connected with motion sensors and with the function enabled can be automatically turned on when detecting motion, and dimmed or turned off when no motion is detected, according to the preset Mode, Hold Time, Standby Time and Standby Level applied.

There are two modes available for motion sensor settings.

Occupancy: Lights will be automatically turned on when motion is detected and turned off when no motion is detected after the preset Standby Time.

Disable Local Motion Trigger: Toggling the button next to Disable Local Motion Trigger will disable the motion sensor installed in or physically attached to this lighting fixture, to prevent it from being falsely triggered. This is especially useful if the light is installed in a place where there are interfering objects that may cause the motion sensor to trigger, such as ventilation, ceiling fans, etc. Lights with trigger function disabled will not be triggered on when directly detecting motion but can still be triggered to Background Light Level if another light in the same group detects motion according to the settings applied.

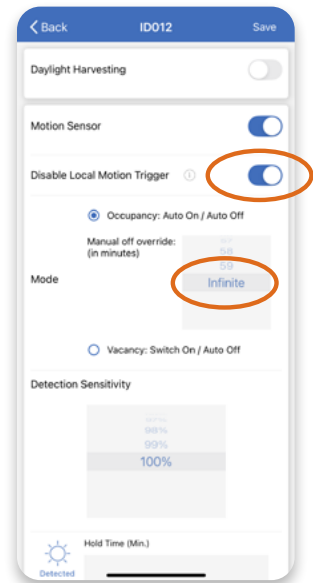
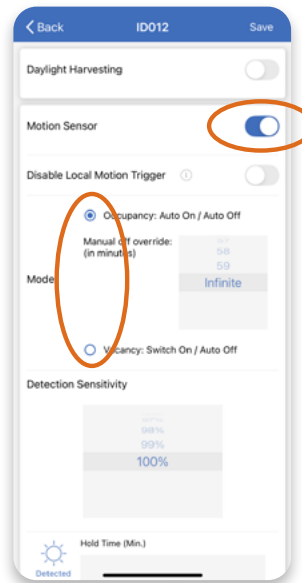
Manual off override: When light is turned off manually, by either app, switch or schedule, it remains off and won't be triggered back on by motion during the Manual off override time per settings applied. If motion is detected during this period, it will restart the time counter.

Commissioning Guide

Vacancy: Lights will automatically be turned off when no motion is detected after the preset Standby Time. They can only be turned back on manually. They cannot be triggered back on by detecting motion.

Follow the below steps to configure the motion sensor settings.

1. Press the **Configuration** button on the bottom of the Light Settings page.
2. Toggle to enable the **Motion Sensor** function. Select the desired **Mode**. Adjust the parameter as desired for **Manual off override**. Toggle to turn on **Disable Local Motion Trigger** function if needed.

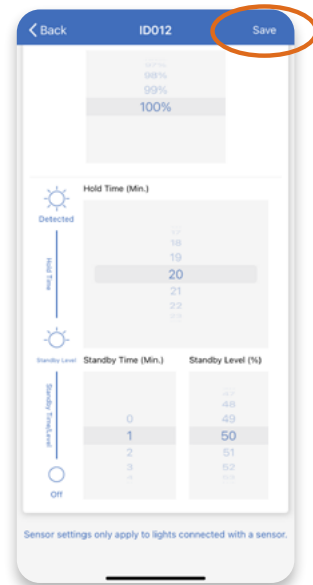
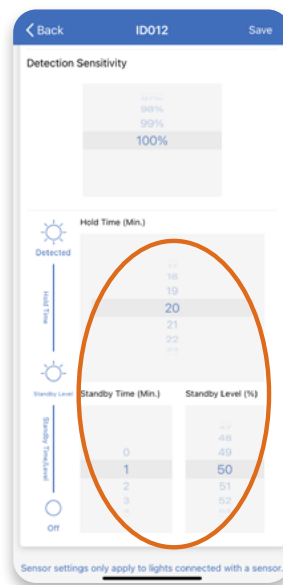


3. Adjust the parameters for Detection Sensitivity (if existing), Hold Time, Standby Time and Standby Level to desired values, then press **Save** on the top right of your screen to finish.

Hold Time: The period of time before which the lights will maintain the current brightness level when no motion is detected.

Standby Time: If no motion is detected still after Hold Time, the Standby Time will start, and lights will be dimmed to Standby Level until the end of Standby Time.

Standby Level: The specific percentage of the last running brightness level that lights will be dimmed to during Standby Time.



For example, when the Hold Time is 20 minutes, Standby Time is 1 minute, and Standby Level is 50%, and lights are running at 80% brightness level. If no motion detected after 20 minutes, lights will be dimmed to 40% brightness level (Standby Level 50% * last running brightness level 80%), then will be turned off after 1 minute if still no motion detected, but ready to be triggered back on to 80% brightness when any motion detected.

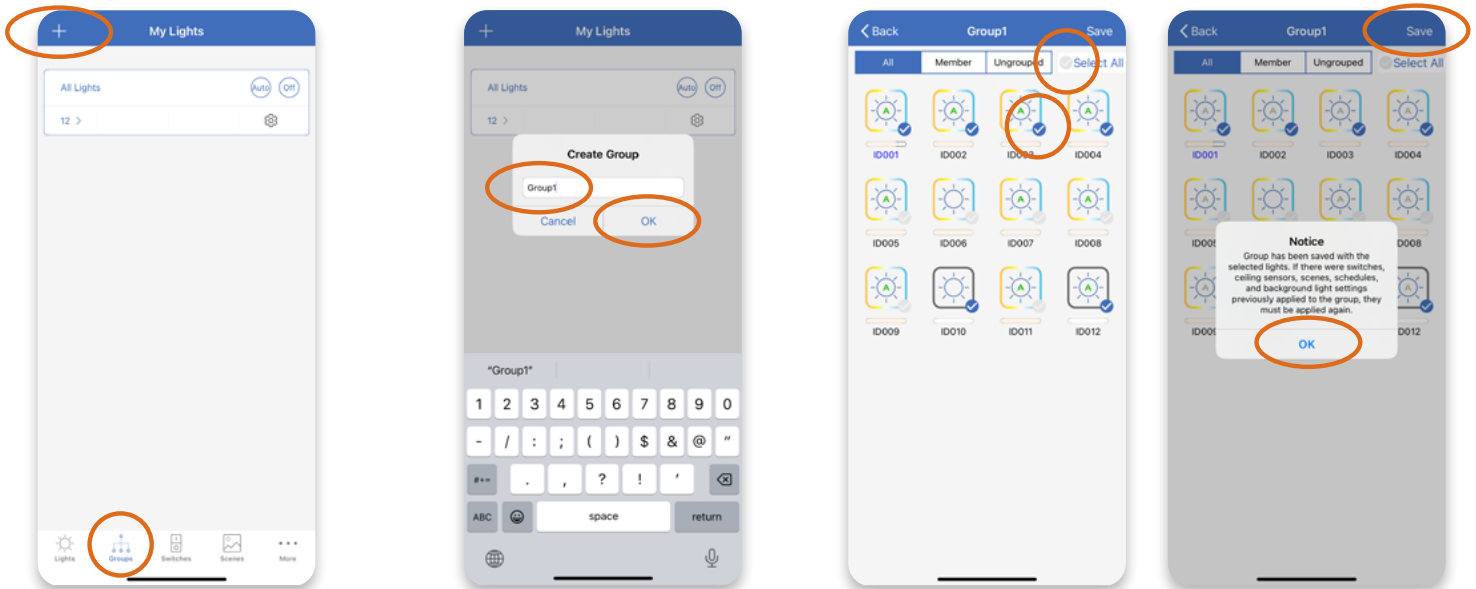
Groups

Different lights in a zone can be grouped together for collective lighting controls. There is no limitation on the number of groups that can be created in a zone by the system. A single light can be a member of up to 20 groups. It is advised to create a group with tunable lights in the same CCT range for more accurate color tuning.

Create a Group

After any lights are added in the zone, a group named 'All Lights' will be automatically created which contains all the lights existing in the zone. Follow the below steps to create a new group and add lights into the group.

1. Press the **Groups** button on the bottom panel, then press the **+** icon on top left to create a new group.
2. Input the name of the group to be created in the prompt, then press **OK** to continue.
3. Check the box of each light to be added, or check **Select All** on top to add all lights into the group. Then press **Save** on top right, and **OK** in the prompt to finish.



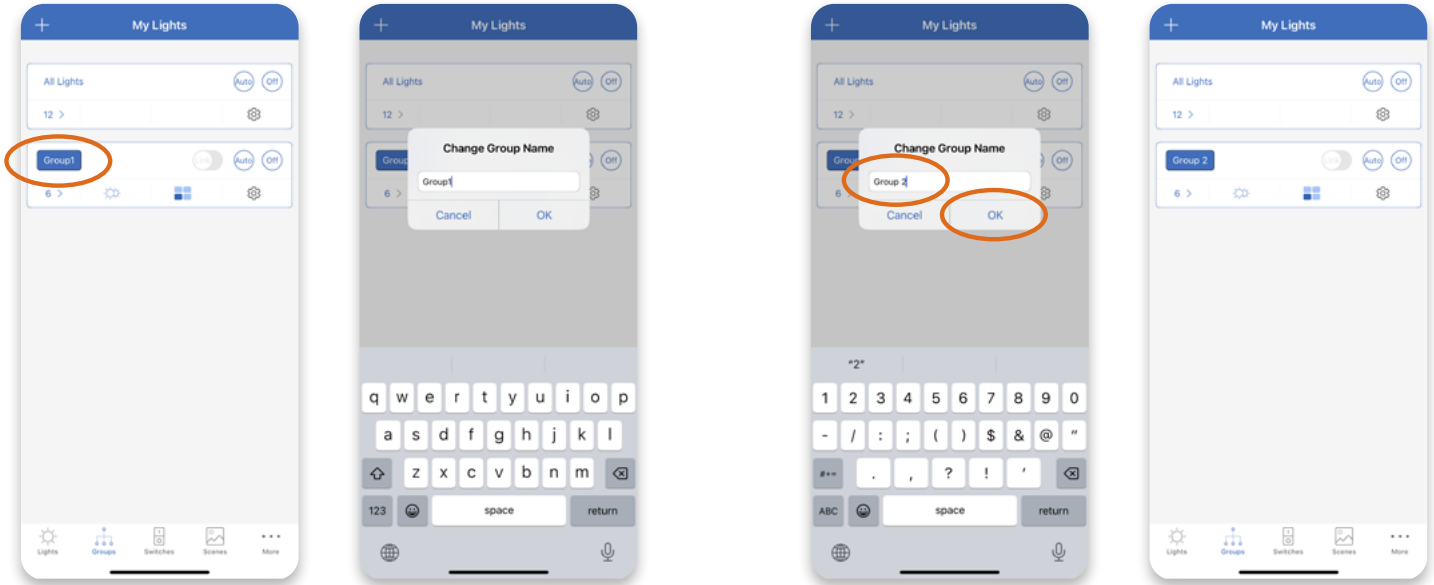
Rename a Group

Except for the default group of 'All Lights' in each zone, the names of all other groups can be changed after creation. It is recommended to keep the group name differentiated with each other and within 6 characters for easy recognition on various pages of the app.

Commissioning Guide

1. On the **Groups** page, select the blue box with the current name of the group.

2. Input the new name in the prompt and press **OK**, then the group name will be updated on the Groups page.

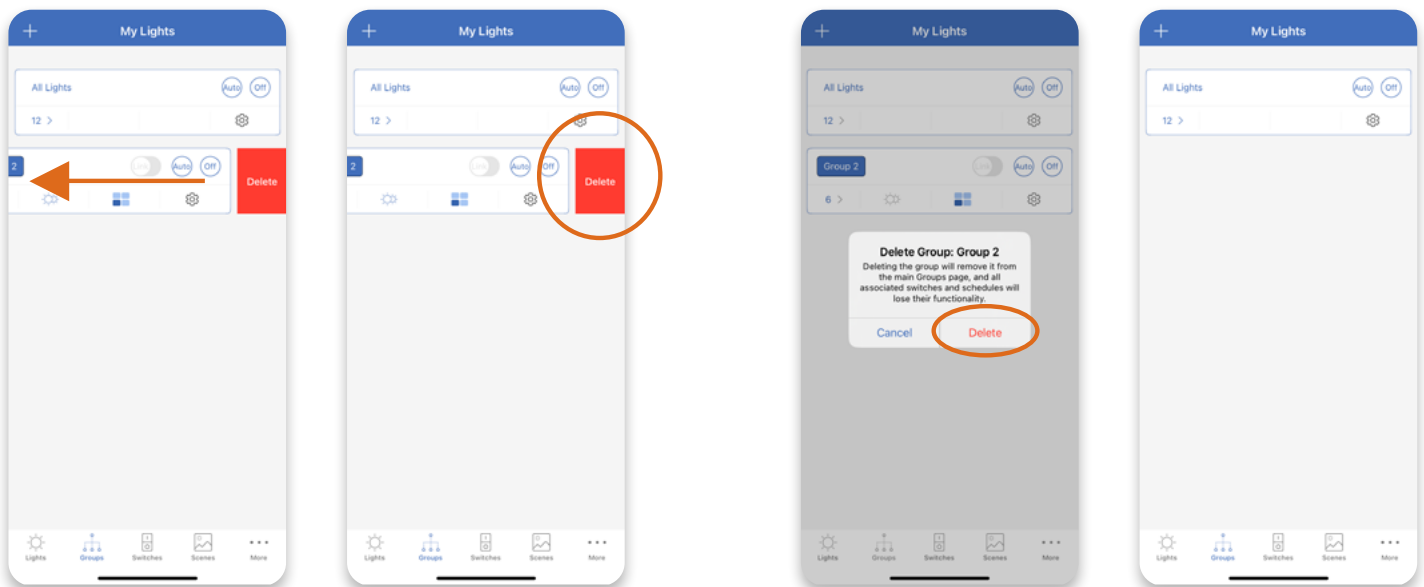


Delete a Group

Except for the default group of 'All Lights' in each zone, all other groups can be deleted after creation. Follow the below steps to delete a group.

1. On the Groups page, slide the group you want to delete to the left, then click the **Delete** button.

2. Click **Delete** in the prompt to finish deleting. Then the group will be deleted from the zone.



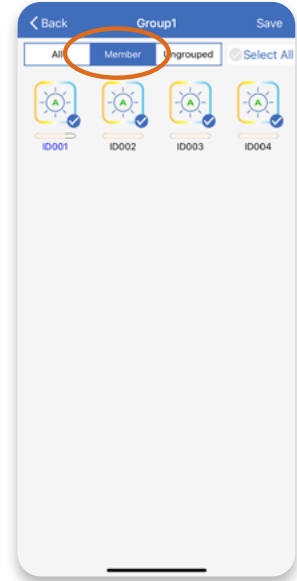
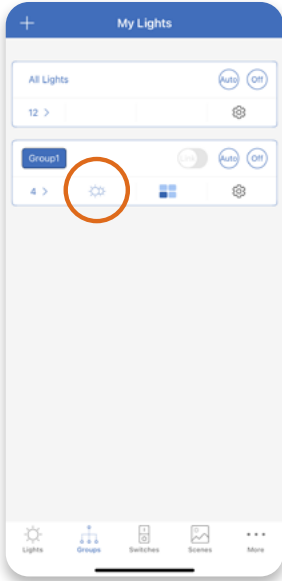
NOTICE: All previously associated ceiling mount sensors, switches, scenes and schedules will lose functions and settings that applied to this group after deletion.

Commissioning Guide

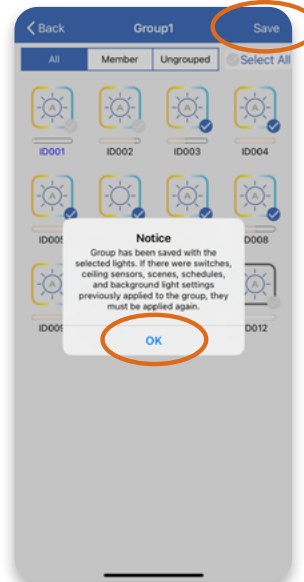
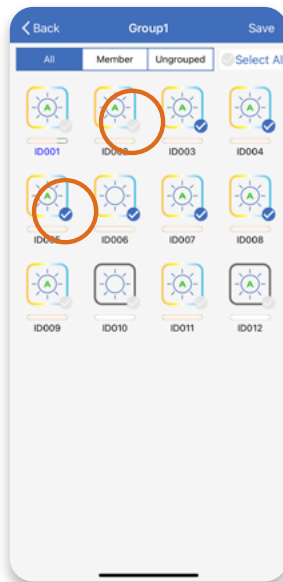
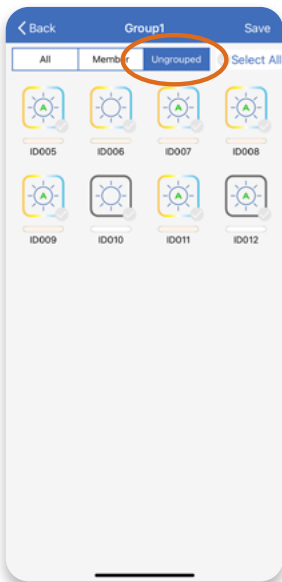
Update Lights in a Group

The default group of 'All Lights' in each zone contains all lights in the zone. All other groups can have lights added or removed after creation. Follow below steps to add or remove lights in a group.

1. On the Groups page, press the **Group Members** icon to check all the lights grouped or ungrouped in the zone.
2. When **All** is filtered, all the lights included in the zone are displayed. Checked lights are those included in the current group.
3. When **Member** is filtered, only the lights included in the current group are displayed.



4. When **Ungrouped** is filtered, the lights not included in any groups are displayed.
5. Check lights to add, uncheck lights to remove, then press **Save** on the top right, and **OK** in the prompt to finish updating the lights in the group. Make sure the lights are connected in order to be successfully added or removed from the group.



NOTICE: After group members have been updated, all the associated switches, ceiling sensors, scenes, schedules, and background light settings previously applied to the group will lose functions and need to be applied again to keep them running properly.

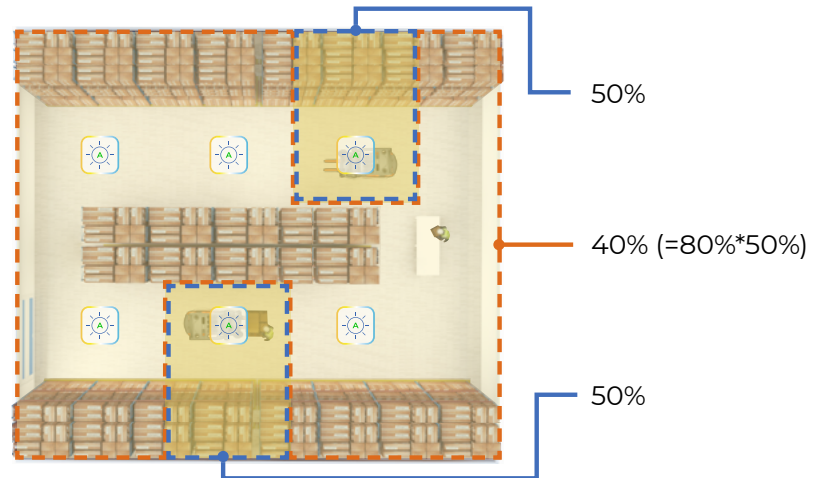
Commissioning Guide

Background Light Settings

When Background Light is enabled for a group, the lights not directly detected motion will adjust to a specified percentage of their running brightness level after Hold Time if another light in the same group detects motion. This specified percentage of the brightness level is Background Light Level. The lights not directly detected motion will be triggered back on to the Background Light Level also when another light in the same group detects motion.

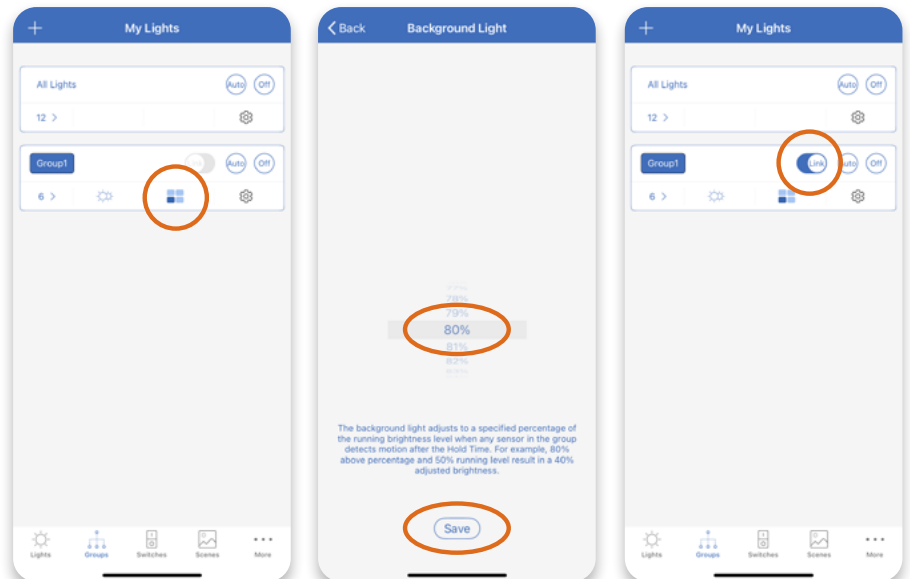
Note: Background Light Level can override Standby Level previously set in the case another light in the group detects motion.

For example, 80% above percentage and 50% running brightness level result in a 40% adjusted brightness in the background light level.



Follow the below steps to set background light.

1. On the Groups page, press the **Background Light** icon to adjust the background light settings.
2. Adjust the percentage to the desired value, then press **Save** to finish.
3. Toggle the **Link** button on the Groups page to enable and disable Background Light function for the group.



Group Light Settings

Lights grouped together can be adjusted to the same desired brightness and color. It is advised to create a group with tunable lights in the same CCT range for more accurate color tuning. If unclear, please visit <https://nuroair.com/lightsettings/> for more information.

Commissioning Guide

1. On the Groups page, press the **Configuration** icon to adjust the group light settings.

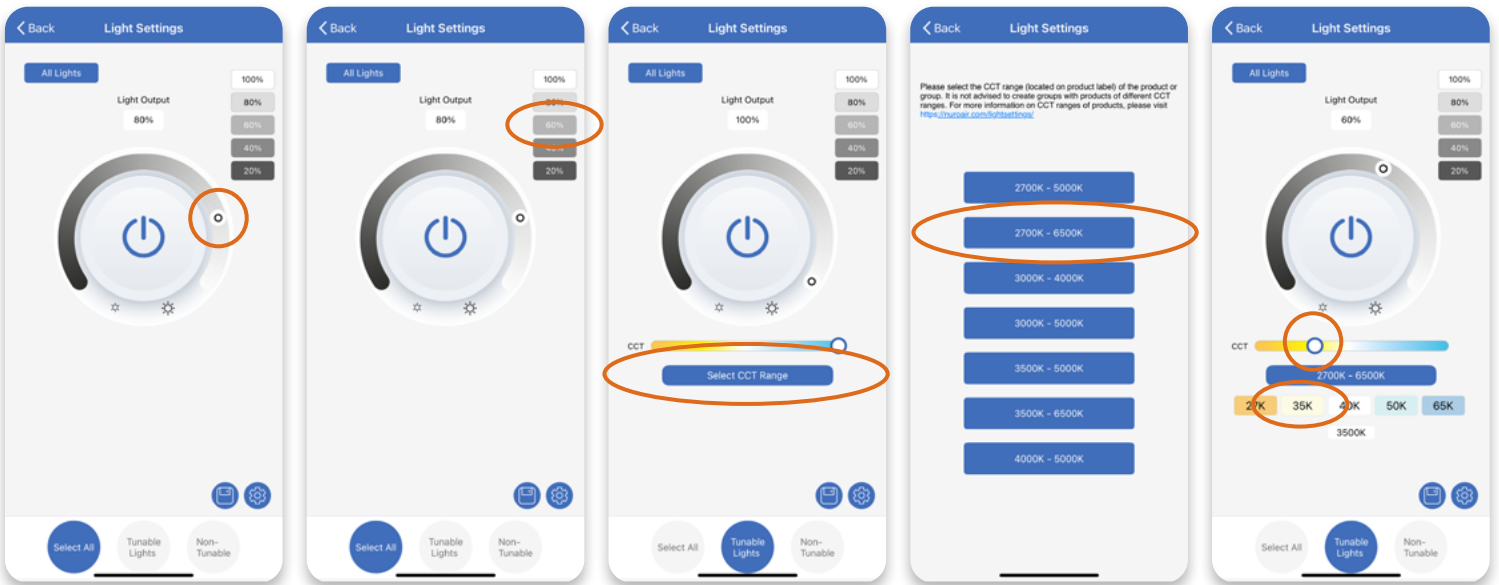


2. Filter among **Select All**, **Tunable Lights**, and **Non-Tunable** on the bottom to adjust the brightness and/or color of the filtered lights in the group.



3. To adjust the brightness, slide the button on the dimming wheel or select the appropriate brightness level.

4. To adjust the color of Tunable Lights, select the corresponding CCT range first. CCT range can be found on the product label if unclear. Slide the button or press and select the appropriate color temperature.



NOTICE: Brightness, CCT and sensor setting parameters for individual light on Lights page of the app reflects the current status of it, but that on the Groups page is not because:

- Brightness / CCT of the lights in a group may vary to each other.
- Sensor settings of the lights in a group may vary to each other.
- One light can be in multiple groups, and users may change parameters individually.

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Save Group Auto Mode Level

To save or update the Auto Mode Level for a mixed group of lights, filter out the **Non-Tunable** and adjust the brightness to desired levels for all Non-Tunable lights in the group. Then filter out the **Tunable Lights** and adjust the brightness and color to the desired levels for all Tunable Lights in the group. Press the **Save** button on the bottom to save the result as the Auto Mode Level for all the lights in the group to finish. When making this setting, it is suggested to turn off Daylight Harvesting function or exclude the ambient light impact by shielding the sunlight or can make this setting during nighttime to maximize energy savings.



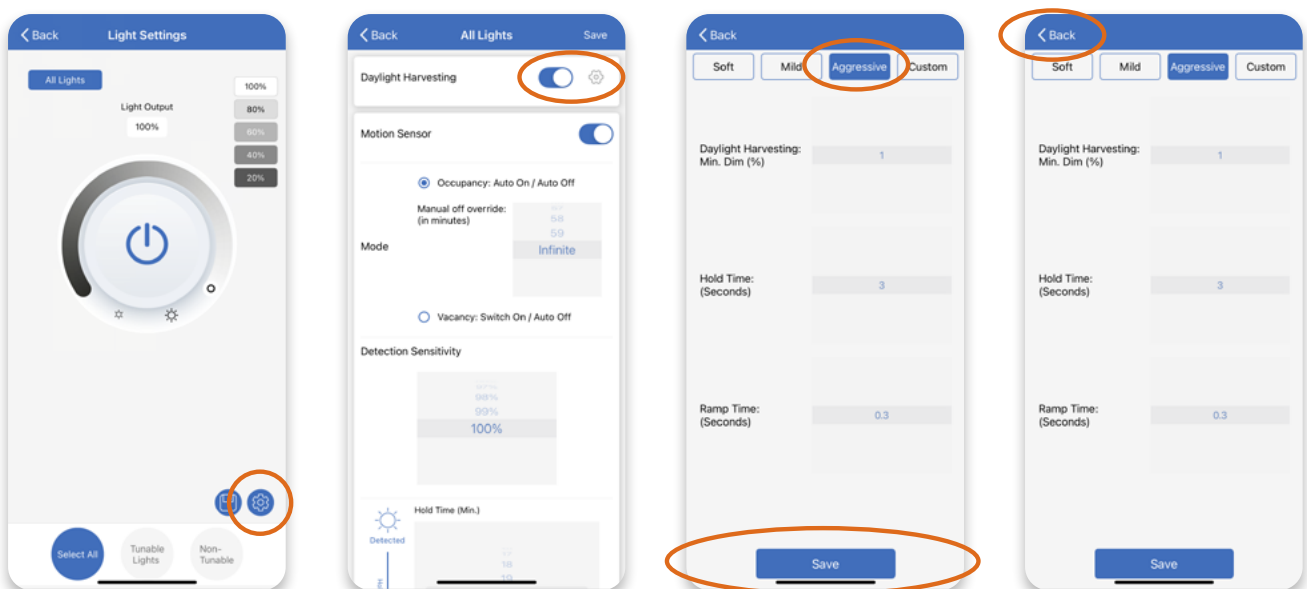
To save or update the Auto Mode Level for a not mixed group of lights, just adjust the brightness and color (if applied) to the desired levels for all the lights in the group, then press the Save button on the bottom to save the result as the Auto Mode Level for all the lights in the group.

Group Sensor Settings

Group Daylight Harvesting Photo Sensor Settings

Lights connected with Daylight Harvesting photo sensors grouped together can set the same Daylight Harvesting parameters from the Groups page.

Press the **Configuration** icon on the group Light Settings page, toggle on the **Daylight Harvesting** function and press the **Configuration** icon on the right. Select one of the preset **Soft**, **Mild** and **Aggressive** settings or select **Custom** to adjust the parameters to the desired levels. Then press **Save** button to set the same Daylight Harvesting parameters for all the lights in the group. Press **Back** to exit the page.



Commissioning Guide

Group Photocell Threshold Sensor Settings

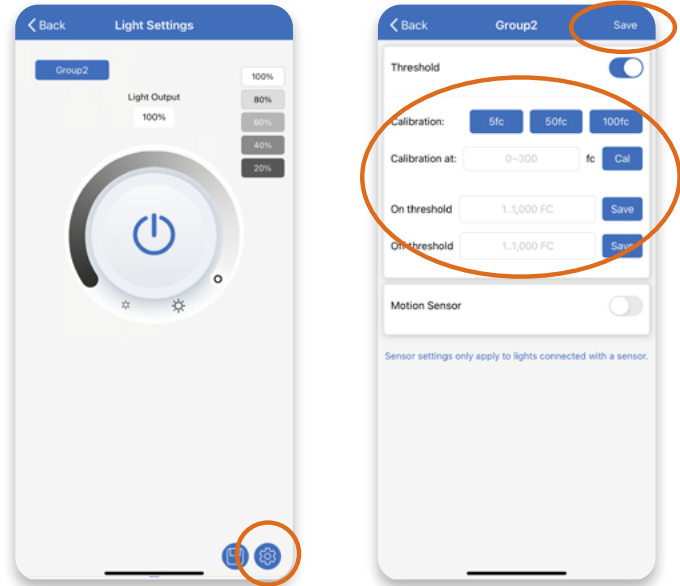
Lights connected with Photocell Threshold Sensors and grouped together can set the same threshold settings from the groups page.

Press the **Configuration** icon on the group Light Settings page. Ensure the Threshold is enabled. Adjust the parameters to the desired levels, then press **Save** on the top of the page to finish.

Refer to the section of [Threshold Sensor settings of individual light](#) if unclear of the different parameters and buttons on the page.

NOTICE:

Do not group lights with Photocell Sensor and Daylight Harvesting sensors together, otherwise threshold settings will not be accessible for the group.

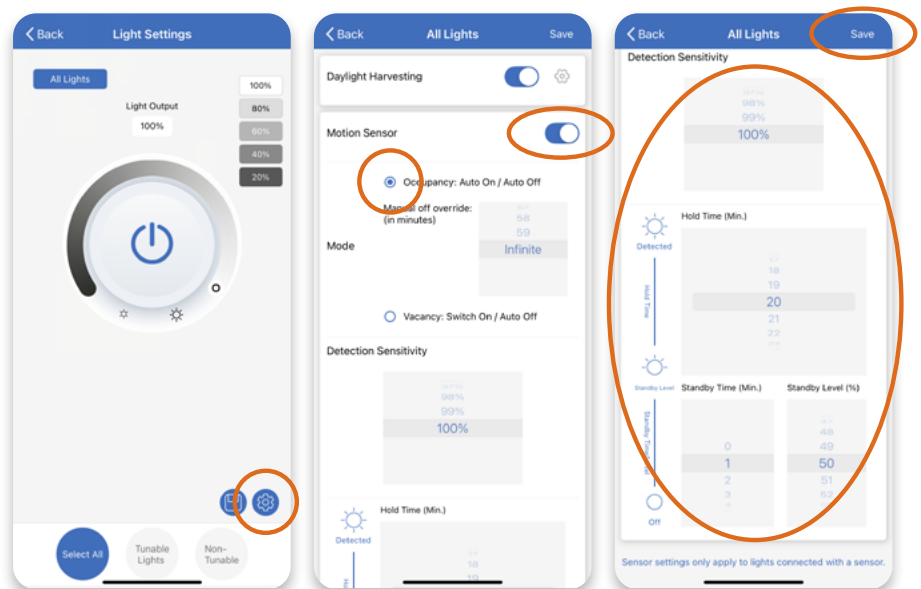


Group Motion Sensor Settings

Lights grouped together can set the same Motion Sensor parameters from the groups page.

Press the **Configuration** icon on the group Light Settings page. Toggle to enable the **Motion Sensor** function. Select the desired **Mode** and adjust the parameter as desired. Press **Save** to finish.

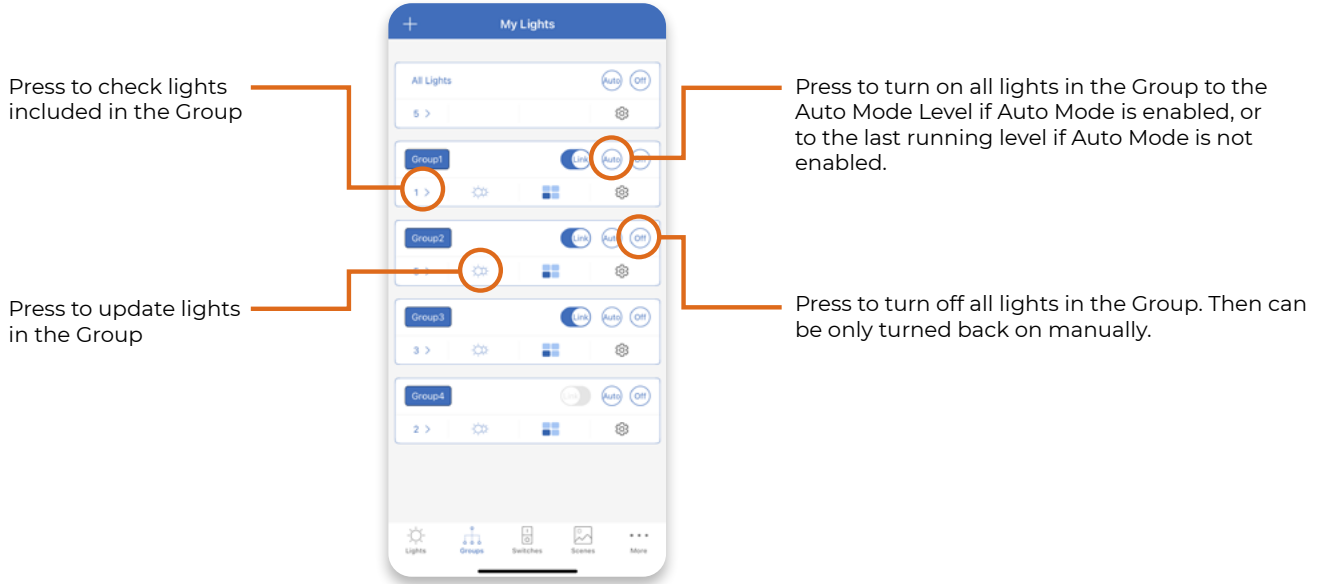
Refer to the section of [Motion Sensor settings of individual light](#) if unclear of the different parameters on the page.



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Additional Group Checking and Control Buttons

On the Groups page, there are additional buttons for group lighting control as explained below.



Scenes

A scene is a command for the lights / groups included to be turned on in the preset brightness and color per settings applied, or manually turned off. Each zone can contain up to 127 scenes.

There are three default scenes in a zone:

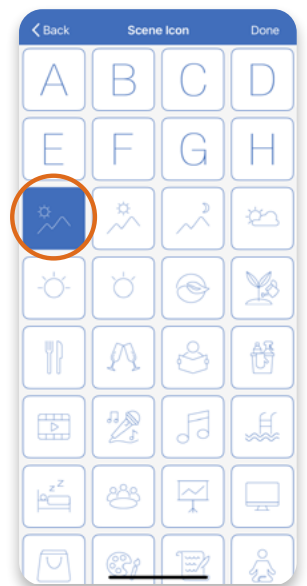
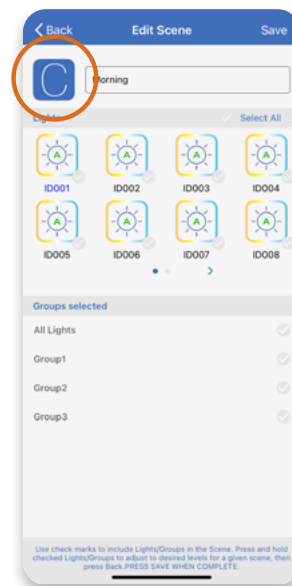
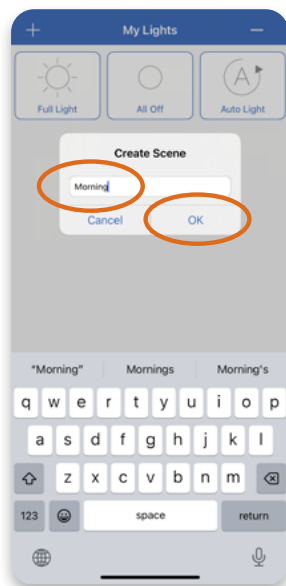
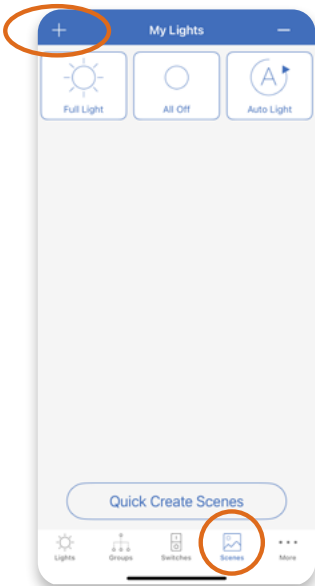
Full Light: Turn on all lights in the zone to full brightness, then work not in Auto Mode.

All Off: Turn off all lights in the zone, then can be turned back on manually only.

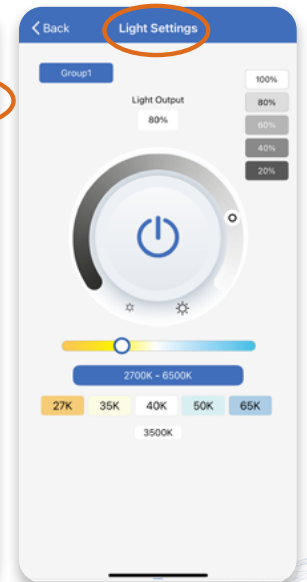
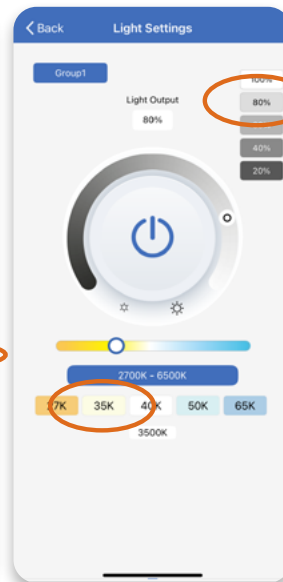
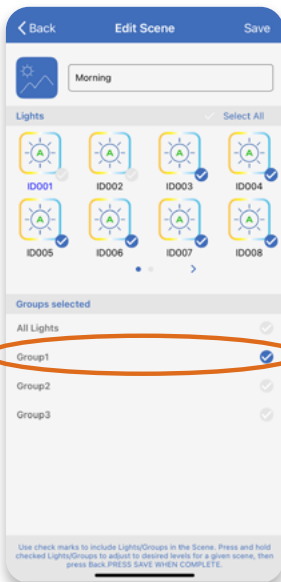
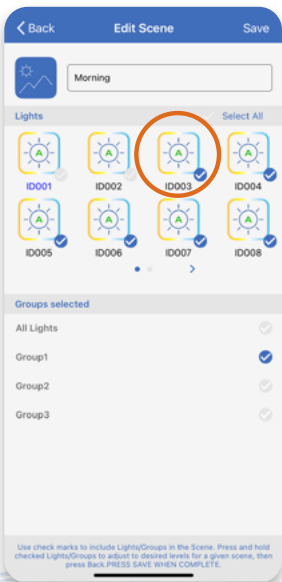
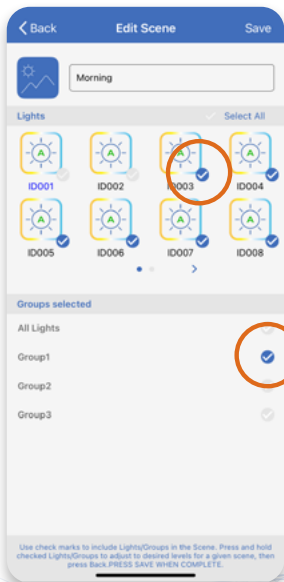
Auto Light: Turn on all lights in the zone to their preset Auto Light Level if Auto Mode is enabled, or to the last running level if Auto Mode is not enabled. **NOTICE:** If Auto Mode is not enabled, pressing this button will not enable Auto Mode. The lights will be turned to their last running level and stay working in manual mode.

Create a Scene

1. Press the **Scenes** icon on the bottom panel, then press the **+** icon on the top left to create a new scene.
2. Input the name of the new scene in the prompt and click **OK** to continue.
3. Tap the **Scene** icon and select another icon to use for this scene as desired.



4. Check the box of lights and/or groups to be included into the scene.
5. Press and Hold one **Light** or one **Group** to adjust the brightness/color for the scene.
6. Adjust the bright/color as desired, then press **Back** to continue.

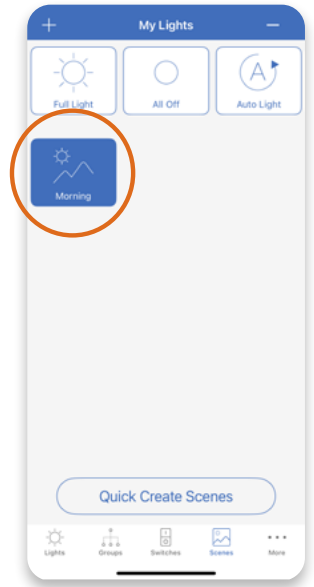
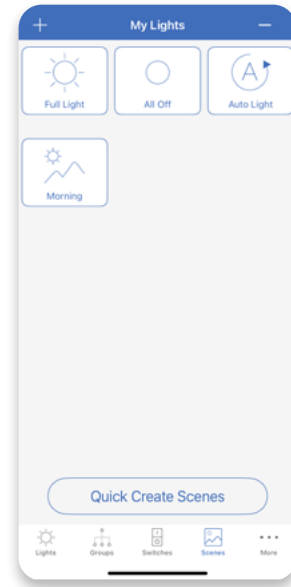
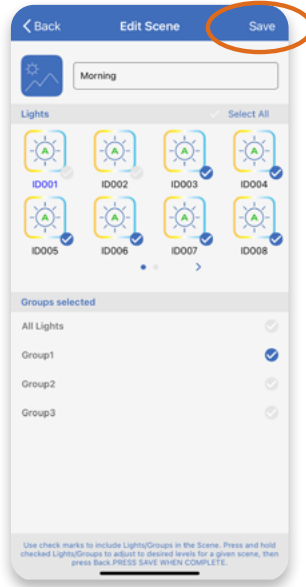
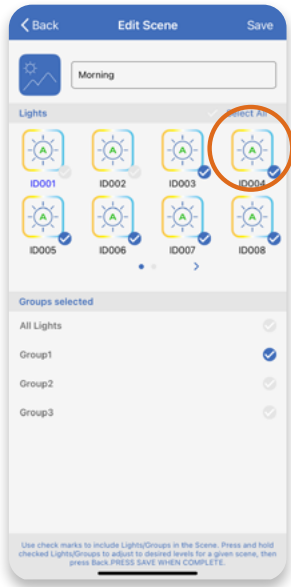


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7. Repeat the same for each of the **Light** and **Group** included in the scene.

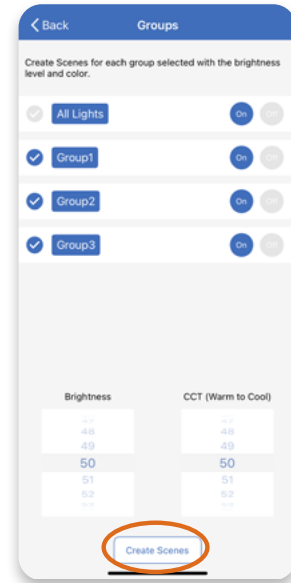
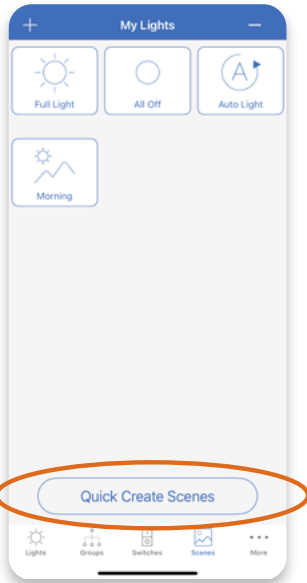
8. Press **Save** only after all the Lights and Groups included in the scene have their brightness/color adjusted to the desired levels.

9. The new scene has been created on the **Scenes** page now. Press the icon to trigger the command of the scene.



Quick Create Scenes

- On the Scenes page, press the **Quick Create Scenes** icon to quickly create multiple scenes in one batch.
- Select the **Groups** you want to create scenes for. Adjust the **Brightness** and **Color** to the desired levels.
- Press the **Create Scenes** button on the bottom to finish. One scene will be created for each selected group with the same Brightness / Color settings.



Commissioning Guide

Change Scene Name and Icon

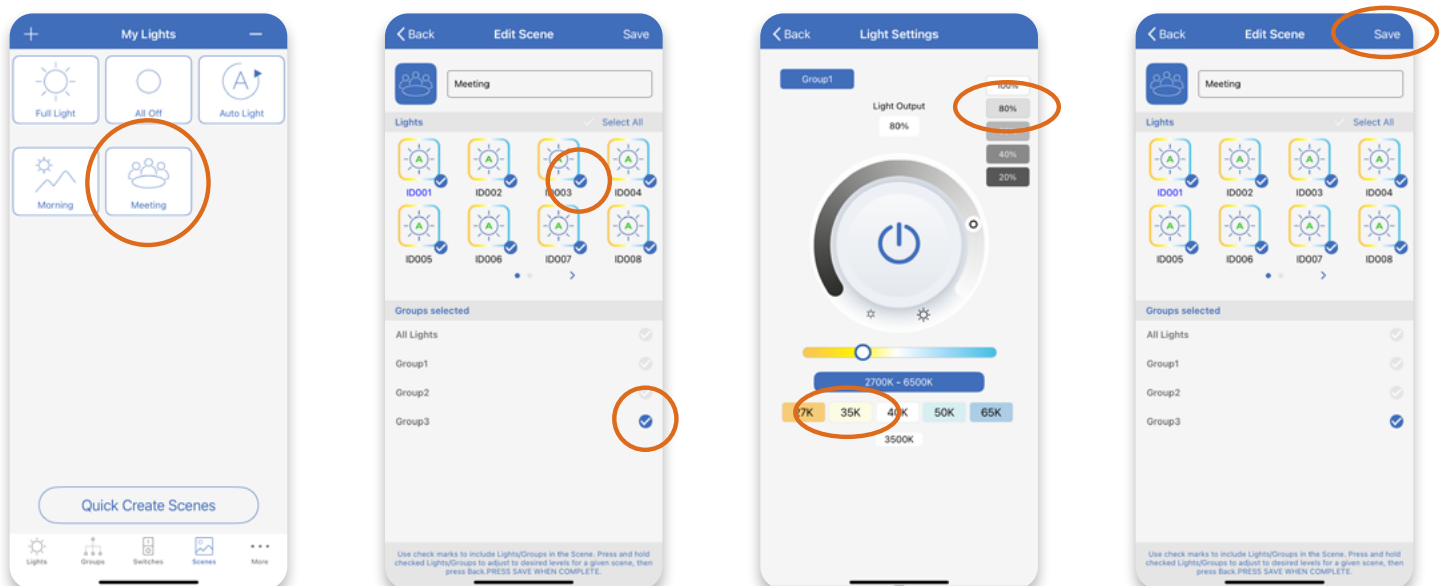
Except for the three default scenes in the zone, the name and icon of other scenes can be changed after creation. It is recommended to keep the scene name differentiated with each other and keep within 6 characters for easy recognition on various pages of the app.

1. On the Scenes page, press and hold the **Scene** icon to edit.
2. To update the name of the scene, tap the block with the current scene name, then input the new name in the prompt and press **OK** to finish.
3. To update the icon of the scene, tap the block with current scene icon, then press to select a new icon for the scene and click **Done** to finish.



Update Scene Light Settings

To update the lights, groups or light settings included in a scene, hold and press the scene icon then follow the same steps as adding the lights/groups as well as adjusting the light settings for each light and group, then press **Save** at the end only after all settings are done.

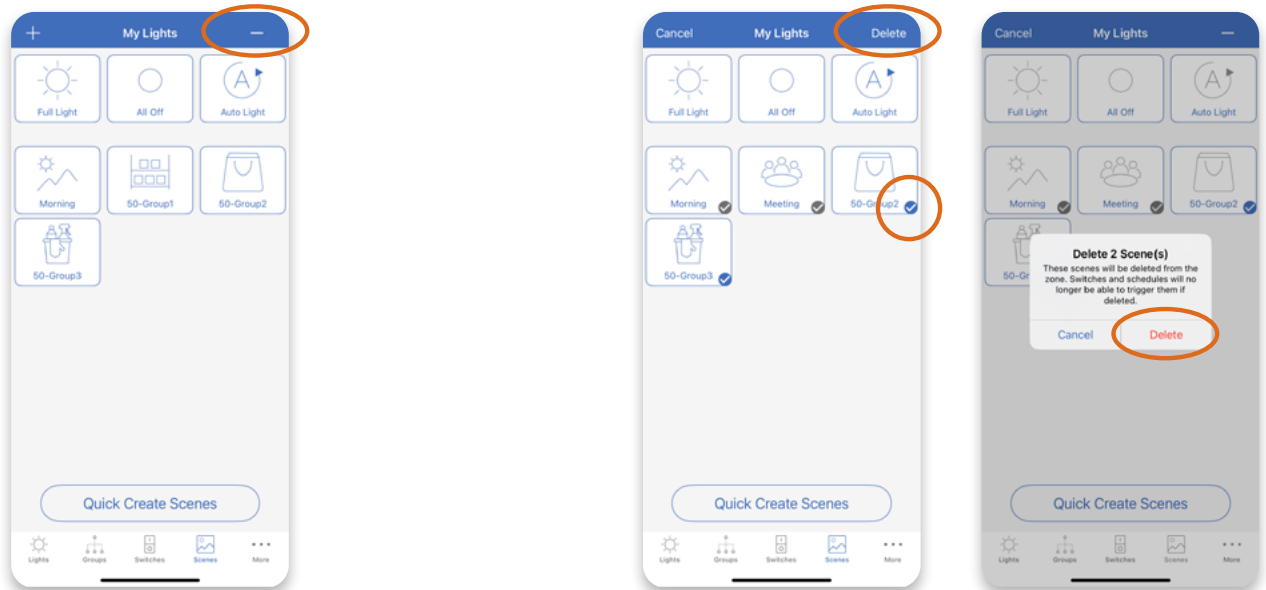


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Delete Scenes

Except for the three default scenes in the zone, all other scenes can be deleted after creation.

1. On the Scenes page, press — icon on the top right to delete scenes from the Zone.
2. Check the box of the **Scenes** to be deleted, then click **Delete** on the top right and **Delete** in the prompt to confirm deletion.



NOTICE: After scenes deleted, the switches and schedules previously associated with the scenes will lose function and cannot trigger these scenes anymore.

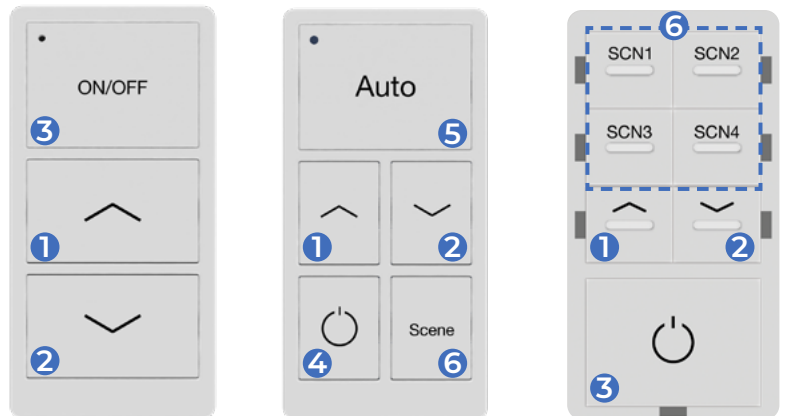
Switches

NUROAir switches can be added to the system on the app and associated with lights for easy control. Each zone can contain up to 32 switches. One switch can be associated with one light or one group only in the zone. Add more switches to control multiple Lights or Groups separately.

NOTICE: Do not add the same switch to different zones to ensure proper working of the switch. If adding a switch to another zone without removing it from the previous zone, all the settings of the switch applied in the previous zone will lose function. Remove it from the previous zone first if need to add to another zone for proper working.

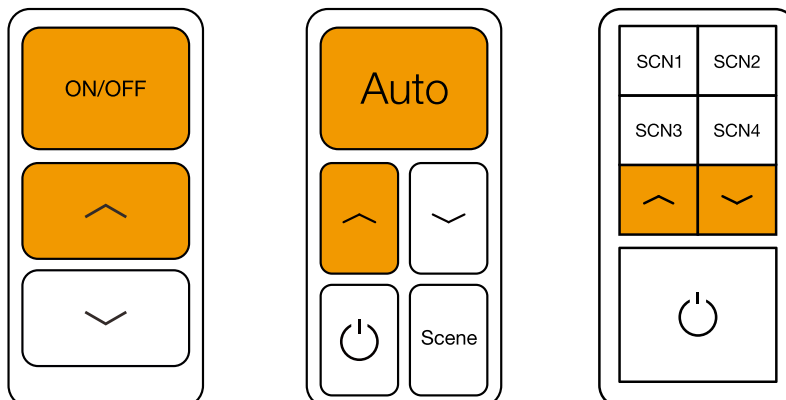
Functions of the buttons on different types of switches.

- 1 Press to dim up the light brightness.
- 2 Press to dim down the light brightness.
- 3 Press to turn the light to preset Auto Mode Level if Auto Mode enabled or to the last running level if Auto Mode not enabled. Press again to turn the light OFF in Manual Mode.
- 4 Press to turn the light to Full Brightness in manual mode. Press again to turn the light OFF in Manual Mode.
- 5 Press to turn the lights to preset Auto Mode Level if Auto Mode enabled, or to the last running level if Auto Mode not enabled.
- 6 Press to trigger a specific Scene according to the settings applied to the switch. Associate up to three scenes with 5-button switch and up to four scenes with 7-button switch.



Add a Switch

Switches need to be set to pairing mode to add them into a Zone. To set the switch to pairing mode, press the two pairing buttons on the physical switch simultaneously, hold for 3 seconds, then release them to activate the pairing mode. Switches will automatically stop pairing after 30 seconds or when a button is pressed. The two pairing buttons for different models of switches are highlighted in the image.

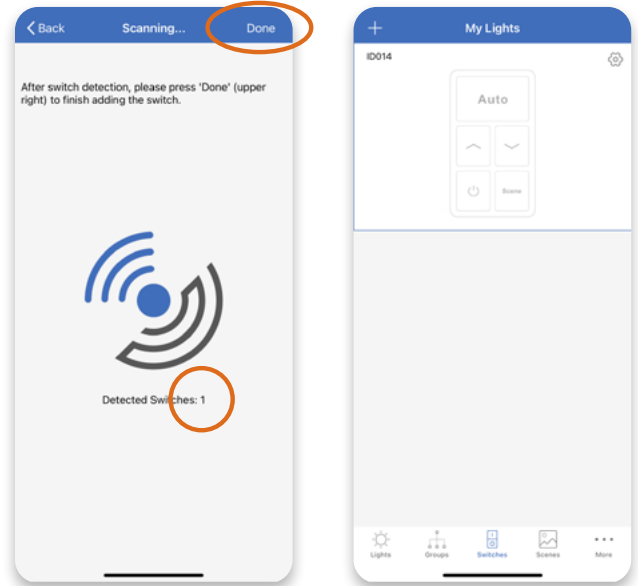


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1. Press the **Switches** button on the bottom panel, then press the **+** icon on the top left or **Click to Add** button on the bottom to add a new switch.



2. Confirm the switch is in pairing mode. Wait until the number of **Detected Switches** is shown on the screen, then press **Done** on the top right to finish.

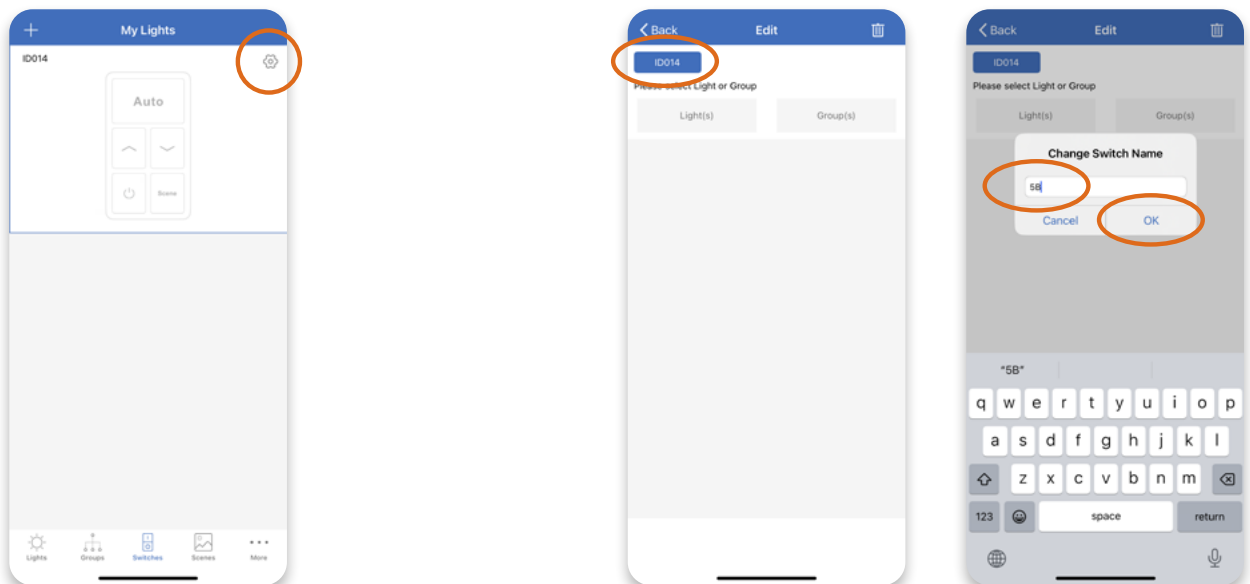


Rename a Switch

The switch detected and added is named with their factory set ID initially. It is recommended to rename each switch immediately after adding to the app and keep the switch name within 6 characters for easy recognition on various pages of the app.

Follow below steps to rename the switch after adding.

1. On the Switches page, press the **Configuration** icon on the top right to edit.
2. Select the box with the current switch name, then input the new name in the prompt, and press **OK** to finish.



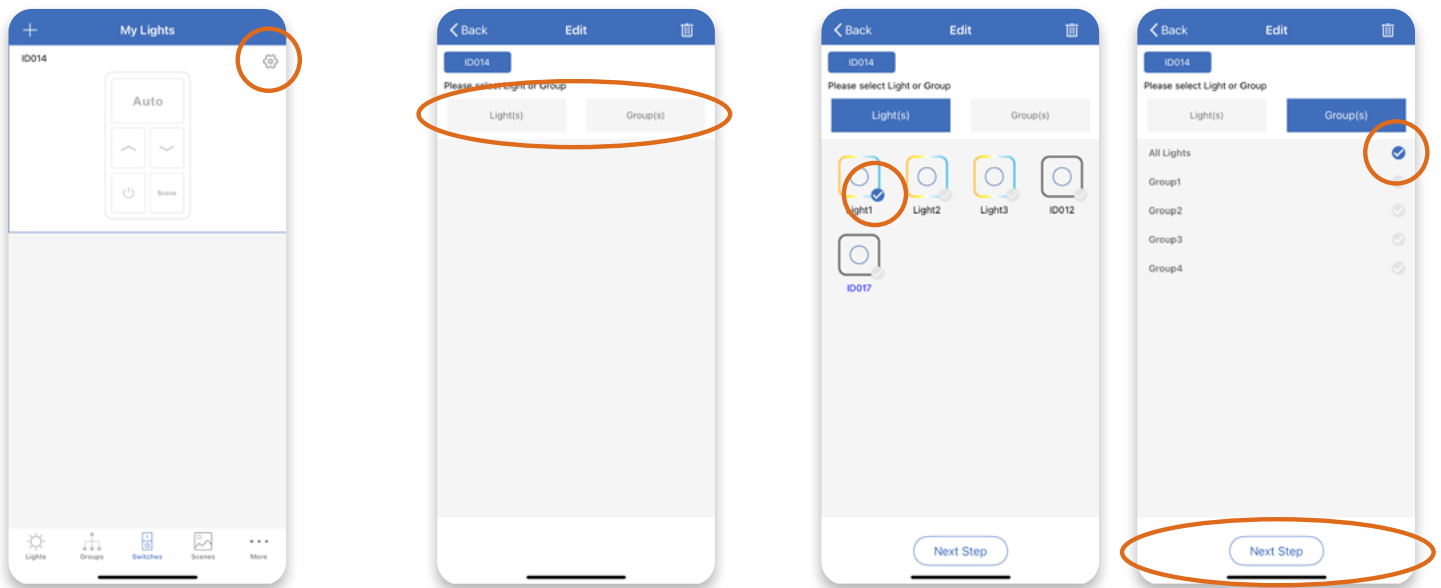
Commissioning Guide

Switch Editing

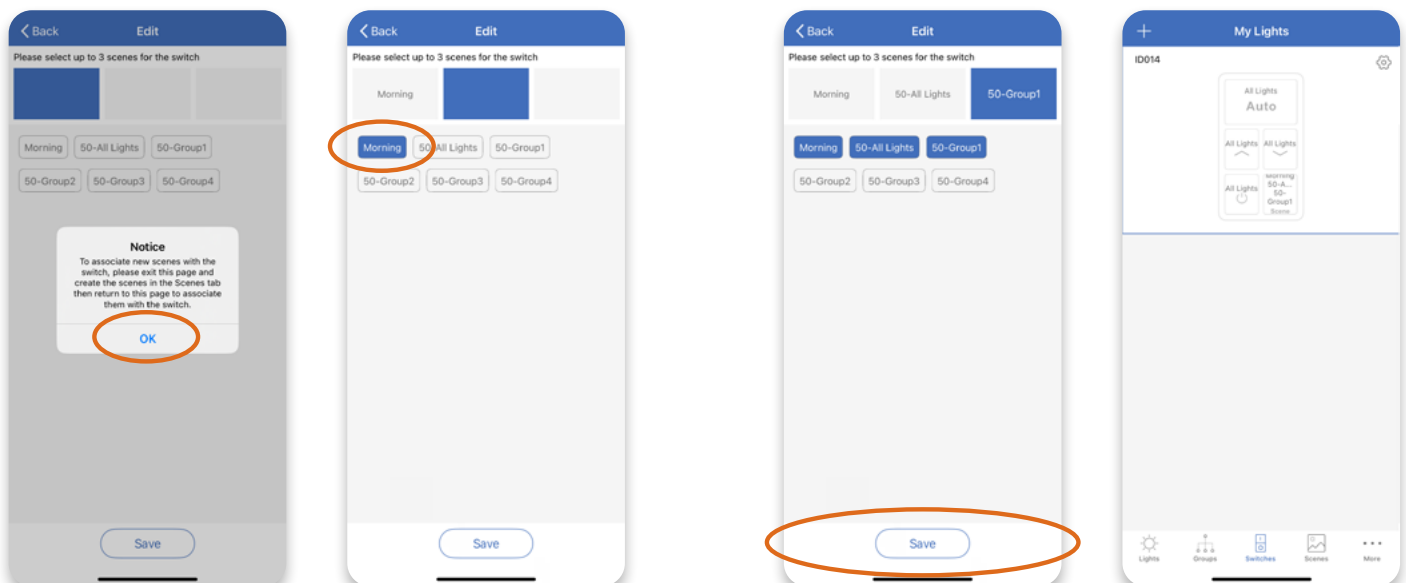
After a switch is added, associate it with one light or one group, and select scenes as desired for easy lighting control. Scenes need to be created before adding to a switch.

NOTICE: Whenever a group or scene has been updated, please edit and save the switch settings again to make sure all settings are synchronized so that the switch can work as expected. When a light, a group or scenes that have been associated with the switch are removed from the zone, the association of them with the switch will be lost also, and the switch needs to be edit again for proper working.

1. On the Switches page, press the **Configuration** icon on the top right to edit.
2. Press **Lights** or **Groups** button to display available lights and groups to be associated.
3. Check one **Light** or one **Group** to be associated, then press **Save** (in case of 3-button switch), or press **Next Step** to continue adding scenes (in case of 5-button or 7-button switch).



4. Scenes need to be pre-created on the Scenes page to associate with the switch. Press **OK** on the screen. Then select each block on the top and press to select the scene to be associated with the switch.
5. A maximum of 3 or 4 scenes can be added to one switch depending on the switch models. Press **Save** to finish.



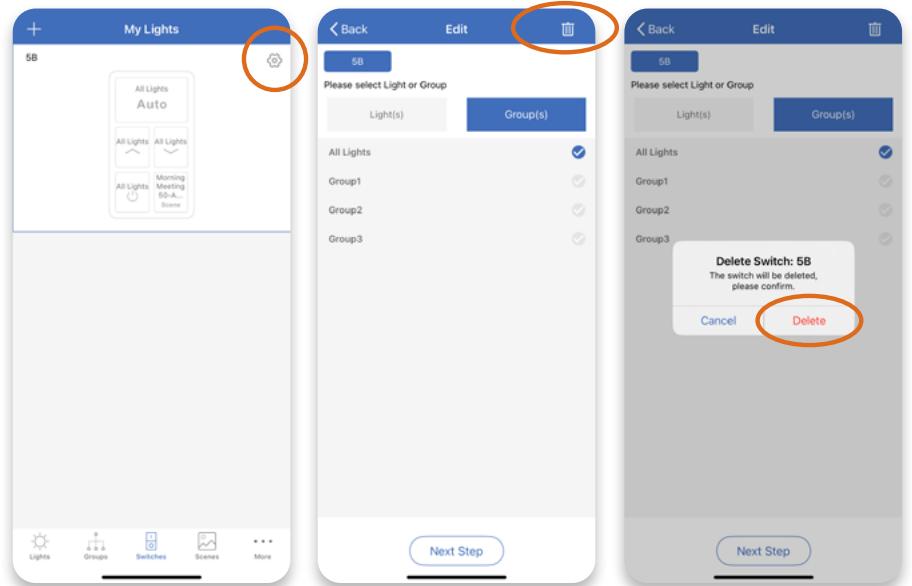
Commissioning Guide

Delete a Switch

Delete the switch from the previous zone first if need to add to another zone, otherwise the switch will not work as expected in the previous zone.

NOTICE: Before deleting a switch, please ensure at least one light is connected in the zone, otherwise the switch cannot be deleted from the zone.

1. On the Switches page, press the **Configuration** icon on the top right of the switch.
2. Press the **Trash** icon on the top right of the page, then click **Delete** in the prompt to finish.



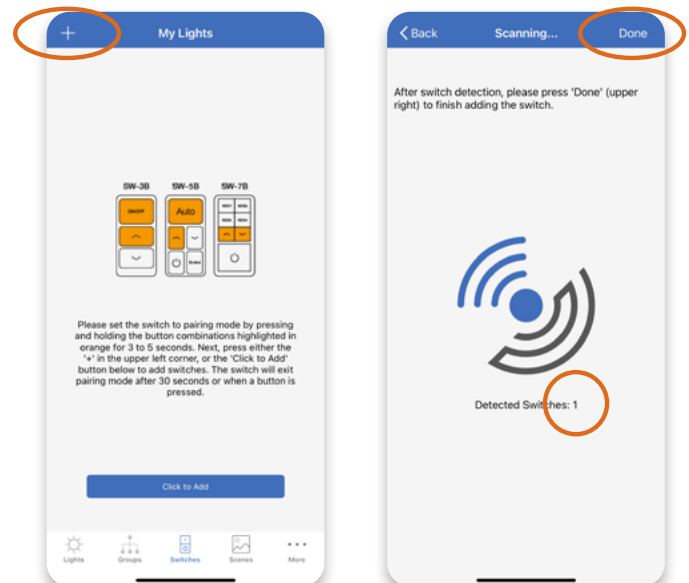
Ceiling Mount Sensor

The NURO7/CM Ceiling Mount Sensor is a line voltage PIR and Ultrasonic dual tech sensor with high accuracy and wide coverage. This sensor can work with NUROAir lighting fixtures via wireless Bluetooth connection.

Follow the below steps to add and commission the ceiling mount sensor for working with NUROAir lighting fixtures via wireless Bluetooth connection.

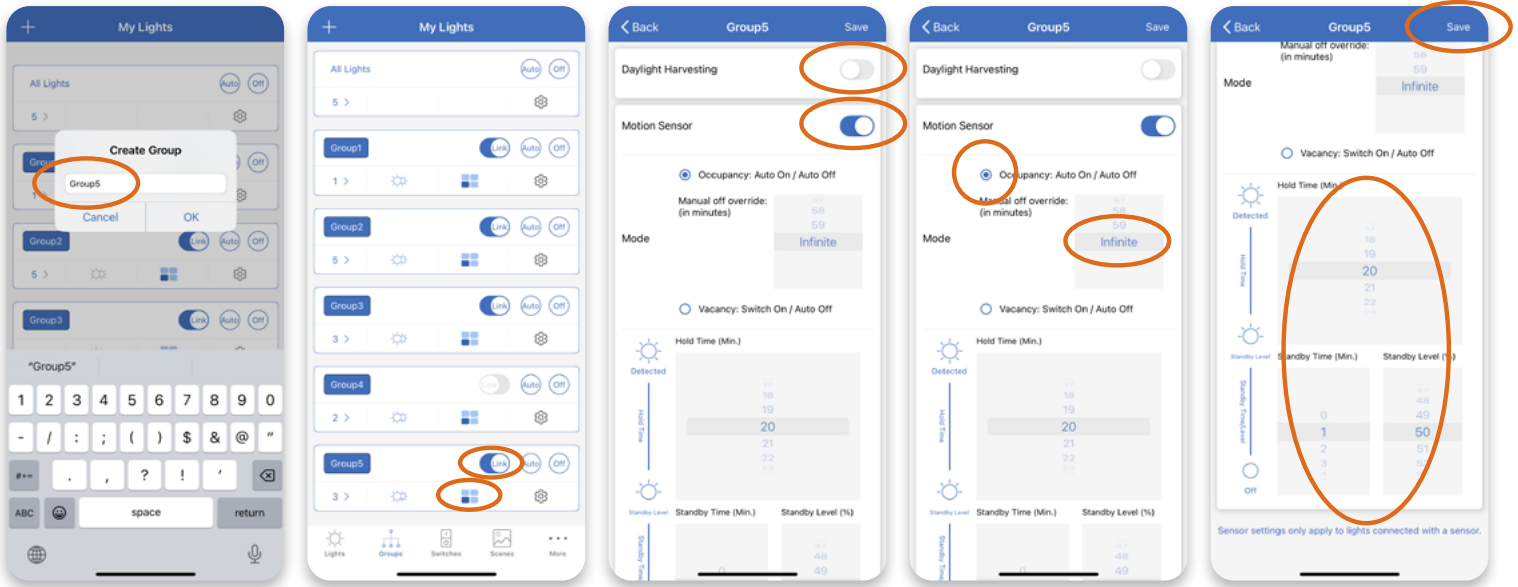
NOTICE: Please DO NOT associate the system default 'All Lights' group with the ceiling mount sensor.

1. Make sure the ceiling sensor is receiving power first. On the Switches page, press **+** on top left, after the number of the ceiling sensor detected, press **Done** on top right to finish. Please reset the ceiling mount sensor to factory setting if it failed to show up.



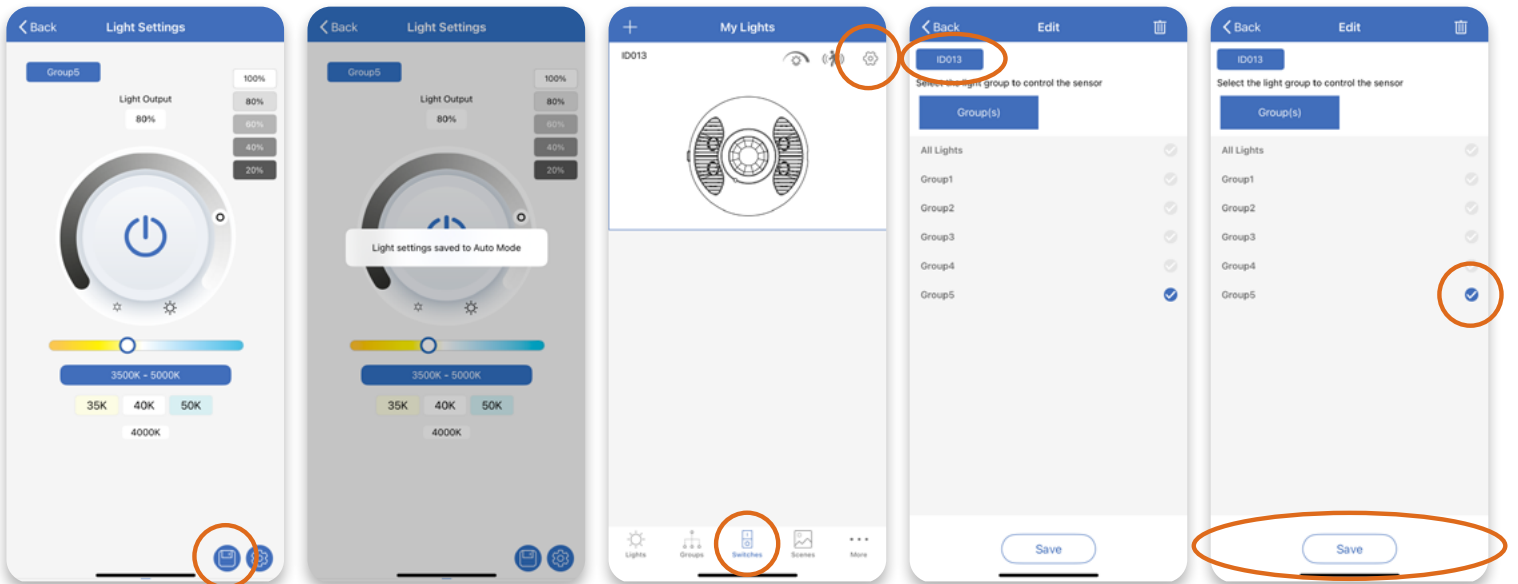
Commissioning Guide

2. Create a **Group** containing the NUROAir lights to be controlled by the ceiling mount sensor. Turn on the **Link** function and set the **Background Light Level** as desired. Go to the group Sensor Settings page, disable the **Daylight Harvesting** and enable **Motion Sensor** for the group even if there are no motion sensors installed with these lights. Choose **Occupancy** mode, adjust the parameters as desired for **Manual Off override**, **Hold Time**, **Standby Time** and **Standby Level**, and then press **Save** on top right of the page.



3. On the group Light Settings page, adjust the brightness/CCT as desired then press **Save** icon to save the Auto Mode Level for the group.

4. Press the **Switches** panel on the bottom, then press the **Configuration** icon on the top right of the ceiling mount sensor. Press the name box to rename the ceiling mount sensor as desired. Select the **Group** just created then press **Save** button on the bottom to associate the sensor to the group.



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- Press the **Motion** icon above the ceiling mount sensor. Adjust the parameters as desired then press **Save** on the top right to finish sensor settings. Press **OK** to exit the page.



Triggered by and Hold on by options:

PIR: only motion detected by PIR is effective.

Ultrasonic: only motion detected by ultrasonic is effective.

PIR + Ultrasonic: only motion detected by both PIR and ultrasonic is effective.

PIR or Ultrasonic: motion detected either by PIR or ultrasonic is effective.

None: Motion won't trigger any action.

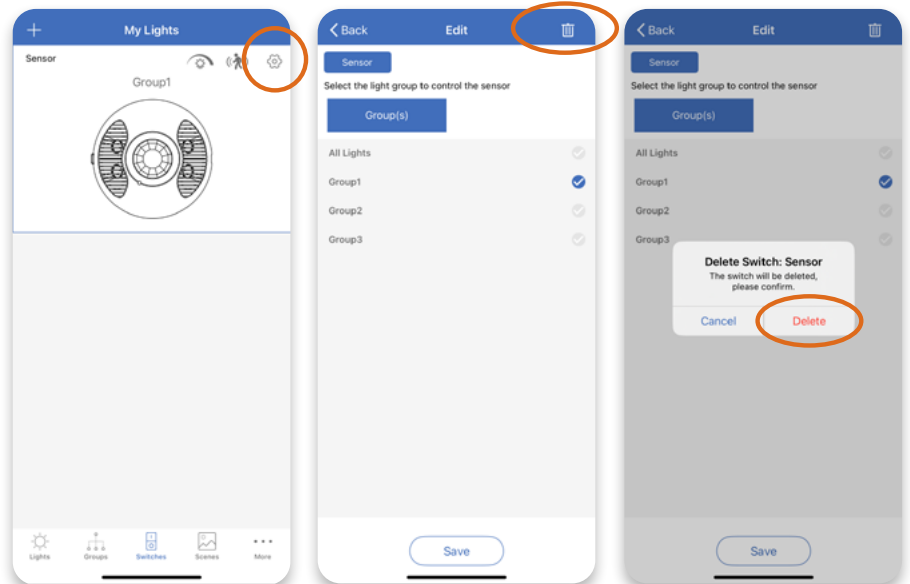
NOTICE: Please set the same parameters for Hold Time and Manual off override for both ceiling mount sensor and the associated group. Settings of Standby Time and Standby Level shall be done on the Light Settings page of the group. Daylight Harvesting is not working for NUROAir lighting fixtures via Bluetooth connection.

Delete Ceiling Mount Sensors

Ceiling mount sensors can be deleted from a zone if not needed or if they need to be added into another zone. The sensors will be factory reset after deletion.

NOTICE: Please make sure the ceiling mount sensors are connected in the zone before deleting them.

- On the Switches page, press the **Configuration** icon on the top right of the ceiling mount sensor.
- Press the **Trash** icon on the top right of the page, then click **Delete** in the prompt to finish.



NOTICE: After pressing '+' icon on the Switches page, all the ceiling mount sensors that are powered on while not added to another zone will be paired to add into the current zone all together. Please make sure those ceiling mount sensors not intended to add into the current zone are not powered on, otherwise they need to be located and removed from the current zone individually in order to be added to another zone.

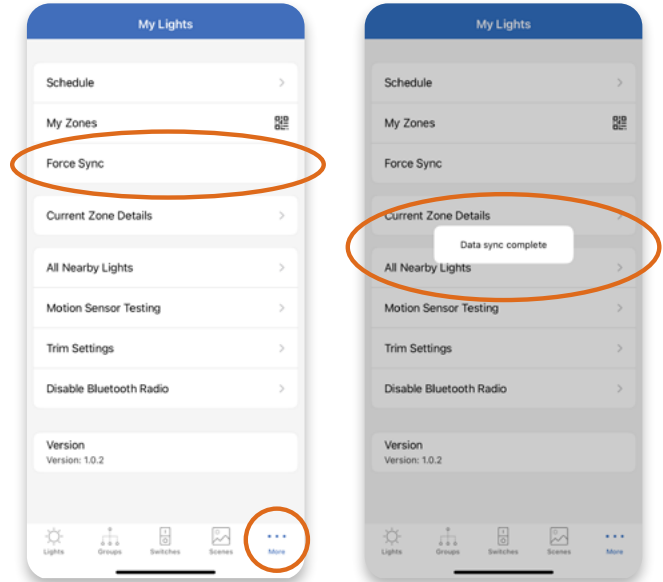
More

Force Sync

The app will try to sync the data automatically in the background to the server (cloud) whenever an update has been made. You may also select 'Force Sync' on the 'More' page to sync manually. The commissioning device need internet connection for Force Sync.

Press **More** on the bottom panel, then press **Force Sync** on the page. A prompt will be displayed on the screen after the data synchronization is complete.

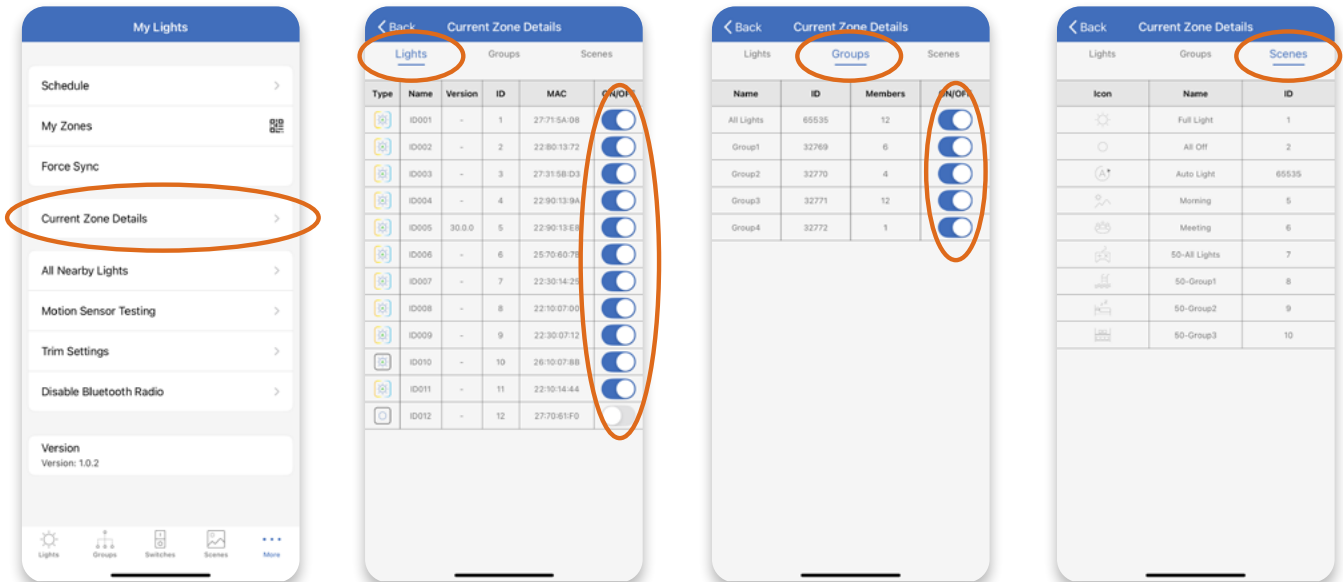
NOTICE: After all the commissioning settings done, it is suggested to always perform Force Sync with the commissioning device connected with internet before sharing the QR Codes to deliver the project.



Current Zone Details

On the More page, press the **Current Zone Details** to check the list of **Lights**, **Groups** and **Scenes** included in the zone.

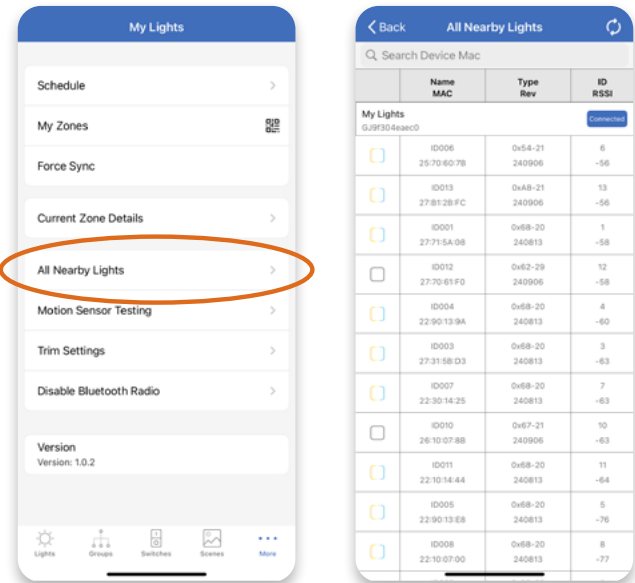
Toggle the button to turn the **Lights** or **Groups** ON/OFF as desired.



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All Nearby Lights

On the More page, press the **All Nearby Lights** to see all the **Lights** that can be detected by the system.



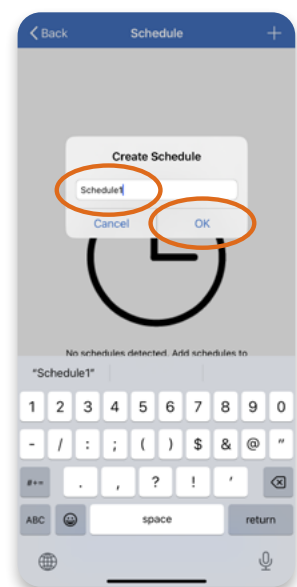
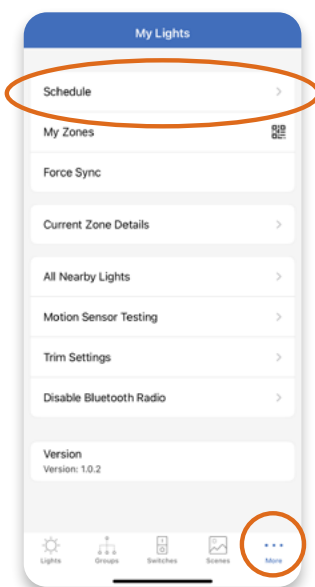
Schedule

A schedule is a one-time or repeated command for specific lights to take a selected action at the preset time. Schedules can be applied to lights, groups or scenes. It is recommended to keep the schedule name within 6 characters for easy recognition on various pages of the app.

NOTICE: Please note that devices must be constantly powered on to keep correct date and time information and run schedules properly. Power outage causes devices to lose date and time information and schedules won't be able to run until devices get date and time information again by restoring power and connected to the app. The devices connected in the app will broadcast date and time information to each other every 10 minutes.

Create / Edit a Schedule

1. Press **More** on the bottom panel, then press the **Schedule**.
2. Press the **Click to Add** button on the bottom or press the **+** icon on the top right to start creating a schedule.
3. Input the name of the new schedule in the prompt, then press **OK** to continue.

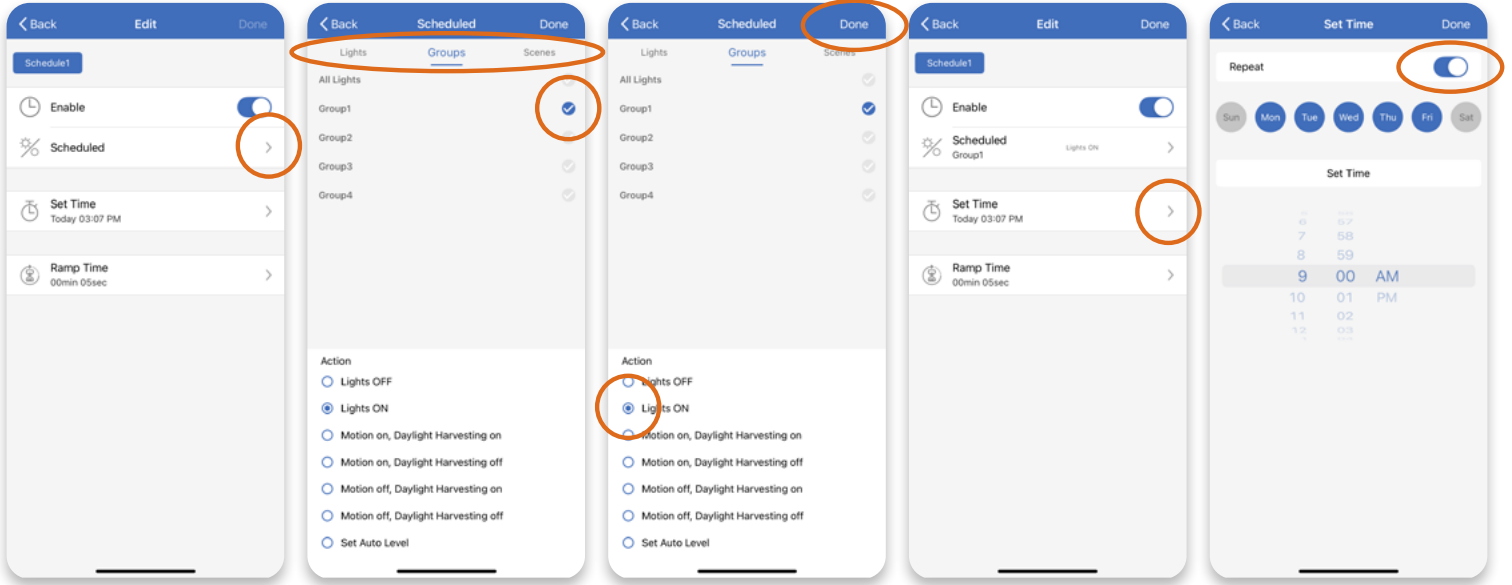


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4. Click the arrow next to **Scheduled**, then filter between **Lights**, **Groups**, and **Scenes** to select one light, or one group, or one scene to be scheduled.

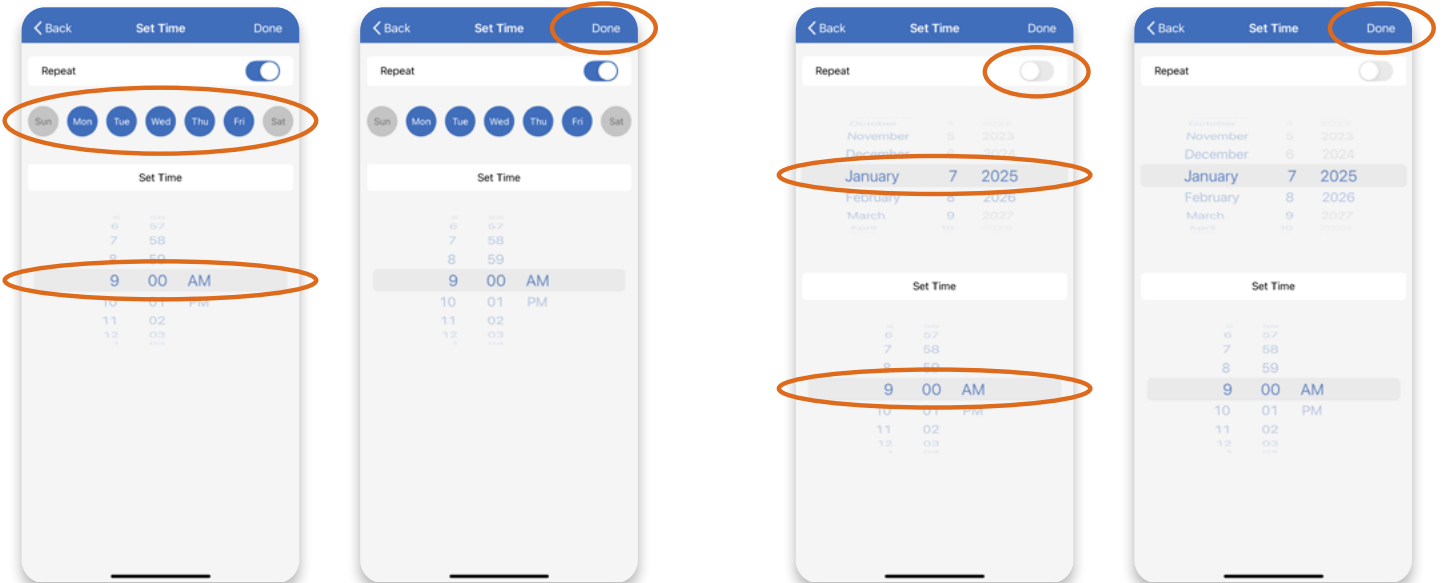
5. Select one action from the list to be scheduled, then press **Done** on the top right.

6. Click the arrow next to **Set Time**. Toggle the button on the top right to enable or disable repeated schedules.



7. To set repeated schedules, select the days and time as desired then press **Done** on the top right.

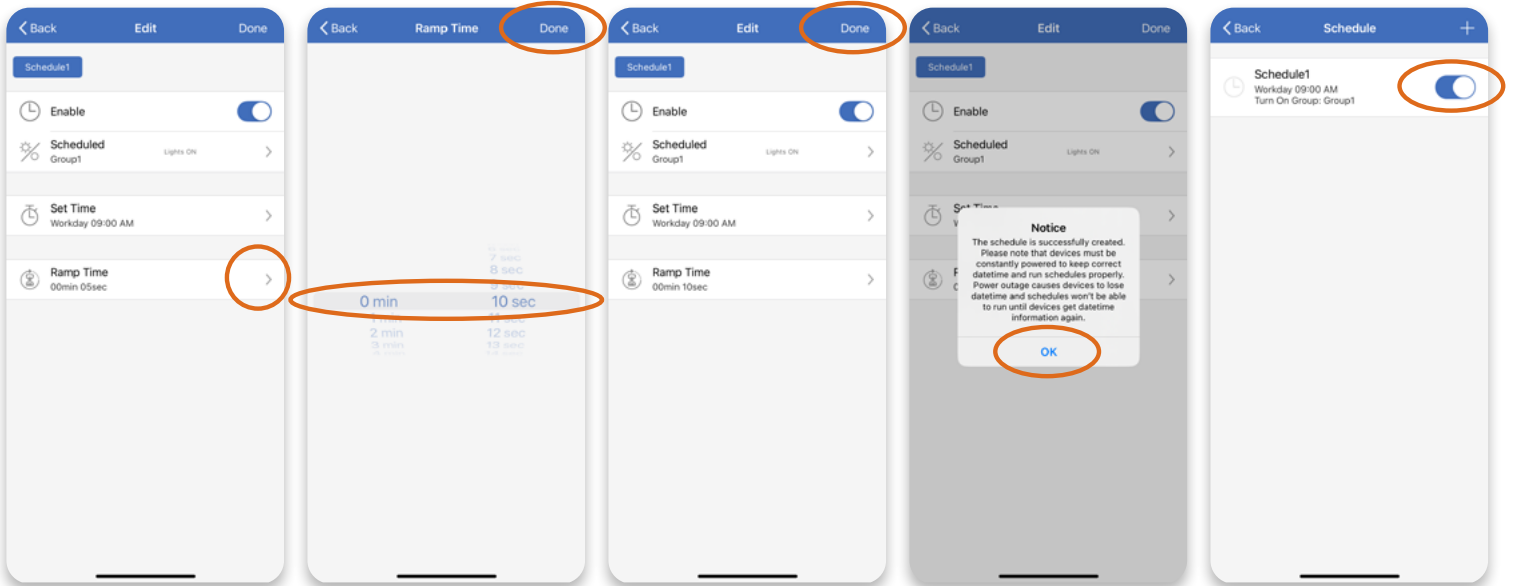
8. To set a single time schedule, toggle the button to disable the **Repeat** function, select the date and time as desired, then press **Done** to finish.



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9. To set Ramp Time, press the arrow next to **Ramp Time**, then adjust the parameter as desired and press **Done** on the top right.

10. After all the settings are completed, press **Done** on the top right and **OK** in the prompt on the schedule editing page to finish. On the Schedule page, toggle the button to enable/disable each schedule as desired.



Delete a Schedule

Before deleting a schedule, please ensure that lights included in the schedule are connected, otherwise the schedule cannot be deleted from the zone.

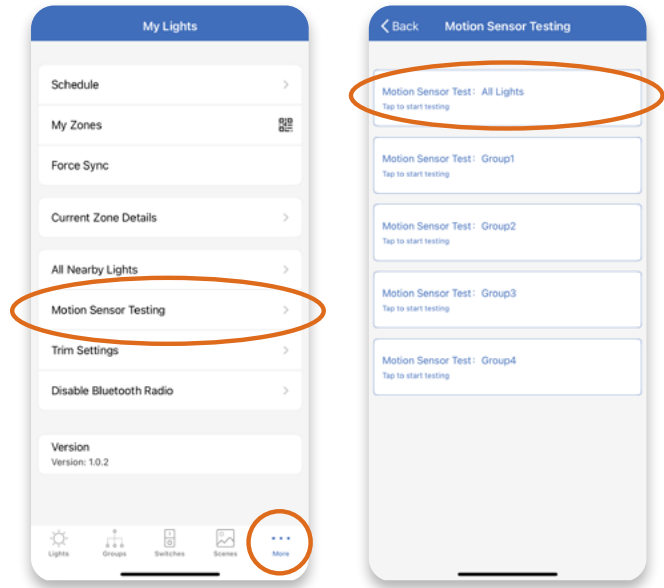
To delete a schedule, slide the **Schedule** row left on the Schedule page, press the **Delete** button shown on the right, then press **Delete** in the prompt to finish.



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Motion Sensor Testing

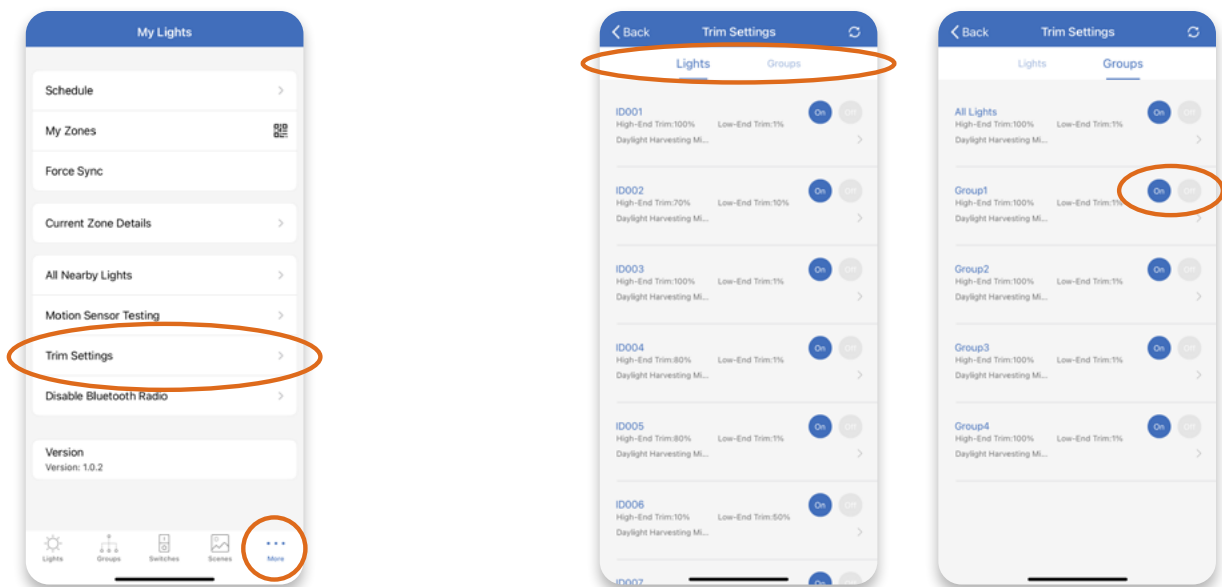
To test motion sensor function for the lights in a Group, press **More** on the bottom panel, then press the **Motion Sensor Testing**. Tap on the panel of the Group to turn off all the lights in the group. Then the corresponding grouped lights will be turned on triggered by detection of motion according to motion sensor and background light settings applied.



Trim Settings

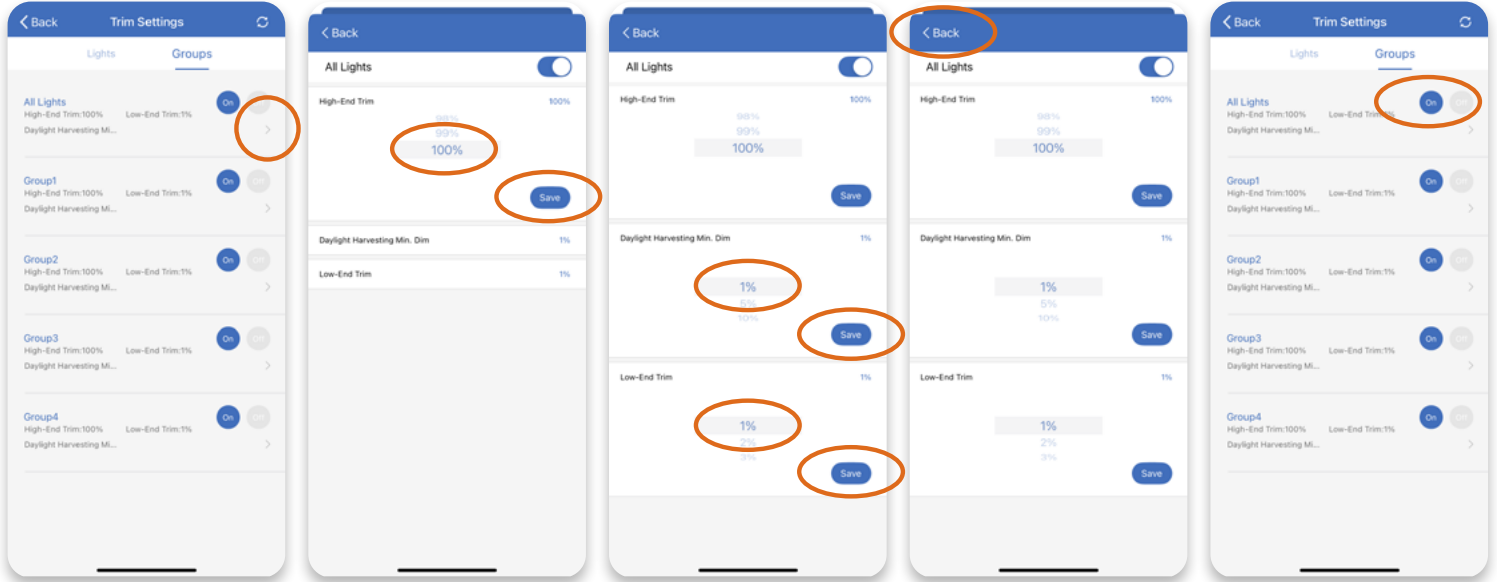
The maximum and/or minimum brightness levels of lights can be preset to ensure efficient light while saving energy. Follow the below steps to preset the maximum and minimum trims.

1. Press **More** panel on the bottom, then press the **Trim Settings**.
2. Filter between **Lights** and **Groups** on the top to edit the trim settings for one light or one group. Press the On/Off buttons to turn the light or group On/Off if need to locate it.



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3. Press the arrow next to a **Light** or a **Group**, then adjust the parameter to your desired value for High-End Trim and press **Save**.
4. Continue to adjust in the same way for Daylight Harvesting Min. Dim, and Low-End Trim, then press **Back** on the top left to finish.
Note: The lights will be dimmed to the last saved brightness. You can toggle the button on the top to turn lights off then back on to the preset brightness.

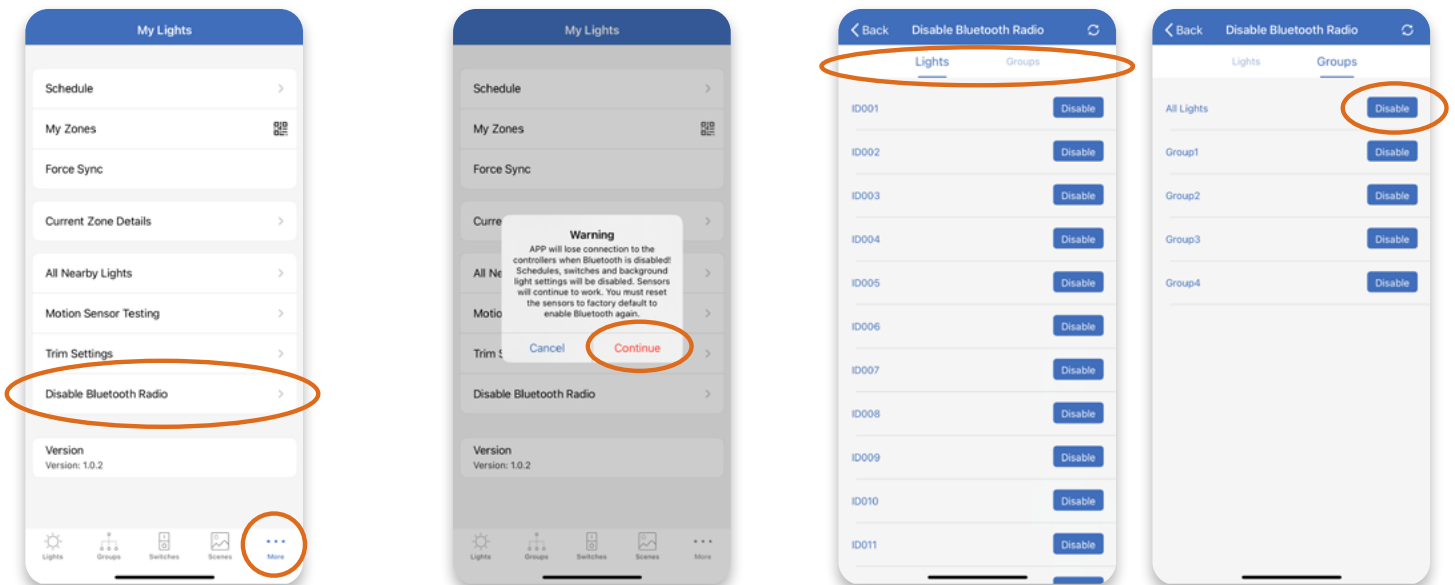


NOTICE: Please set the value of High-End Trim higher than Low-End Trim for proper working. Please set the value of Daylight Harvesting Min. Dim no lower than the Low-End Trim, otherwise it will be disregarded, and the Low-End Trim will operate instead.

Disable Bluetooth Radio

WARNING: App will lose connection to the lights when Bluetooth is disabled. You MUST reset the lights to factory default settings to enable Bluetooth again.

1. Press More on the bottom panel, then press the **Disable Bluetooth Radio**.
2. Press **Continue** in the prompt.
3. Filter between **Lights** and **Groups** on the top. Then press the corresponding **Disable** button to Disable Bluetooth Radio for the Light or Group.



Restore Factory Settings

There are two ways to restore factory settings for the lights.

The first and easiest way is to delete lights from the app on the Lights page. Refer to the [Lights Deletion](#) section for details.

The second way is to do the following power reset sequence to restore factory settings.

1. Confirm all lights are off.
2. Turn on lights for 8 seconds, then turn the power off for 10 seconds.
3. Immediately turn the lights on and off, then wait for another 10 seconds. Repeat 3 times.
4. Turn the lights on for 8 seconds, then turn the power off for another 10 seconds. Repeat 2 times.
5. Turn the lights back on. Blinking Lights indicate a successful factory reset. All previous settings and data for these lights have now been deleted.

Waiting for at least 10 seconds will ensure that the fixture is completely powered off. The duration will vary depending on the driver and the power supply. If the driver can cut power to the fixture within 3 seconds, then you may change the waiting period from 10 to 3 seconds to facilitate a faster reset time.

In addition, certain products have a reset button to restore factory settings. Press and hold this button for 3 seconds while powered on to restore factory settings. Refer to product specifications for more details.

Additional Information

Default Sensor Settings

Integrated Sensors

NURO8-VI

+NURO6-WHT-VI

+NURO6-BLK-VI

Motion Sensor = ON

Daylight Harvesting = OFF

Hold Time = 20 min

Standby Time = 1 min

Standby Level = 50%

Detection Sensitivity = 100%

High-End Trim = 100%

Low-End Trim = 1% or 10% depend on products

Daylight Harvesting Min. Dim. = Low-End Trim

Occupancy/Vacancy mode = Occupancy

Background Light = OFF

Background Light Level = 100%

Photocell ON threshold = 50FC

Photocell OFF threshold = 150FC

Sensor-Ready Controller

NURO-PWPK-102S

Note: Controller without integrated sensors, may later connect to Eco-Sensor NURO8E-VI

Motion Sensor = OFF

Daylight Harvesting = OFF

Hold Time = 20 min

Standby Time = 1 min

Standby Level = 50%

Detection Sensitivity = 100%

High-End Trim = 100%

Low-End Trim = 1%

Daylight Harvesting Min. Dim. = Low-End Trim

Occupancy/Vacancy mode = Occupancy

Background Light = OFF

Background Light Level = 100%

Ceiling Mount Sensor

NURO7/CM

PIR Sensitivity: High

Ultrasonic Sensitivity: Medium

Triggered by: PIR or Ultrasonic

Hold on by: PIR or Ultrasonic

Hold Time: 20 min

Standby Time: 1 min

Commissioning Guide

Capacity Limits

Zones: Unlimited zones available with each zone having its own shareable QR Code with commands and setting info assignable for administrative or user level.

Lights: Up to 100 lights (nodes) per zone. Please note the ceiling mount sensor (NURO7/CM) is counted in the number of lights in each zone.

Groups: A single light can be a member of up to 20 groups.

Scenes: A light can be added to up to 32 scenes and will be automatically removed from the first scene after. Up to 127 scenes can be set to a zone.

Schedules: Up to 32 schedules can be set to a zone.

Switches: Up to 32 switches can be set to a zone. Note: switches and lights are calculated separately. Adding switches to a zone does not affect the maximum number of lights.

Cautions

1. The Bluetooth mesh network enables wireless transmission range up to 100 feet or 150 feet (refer to the specific product spec sheet for details) in the open space where no objects that may block the wireless signal transmission, such as concrete walls or large metal objects. In NUROAir Bluetooth system, each Zone is an independent mesh network, and the Bluetooth signal emitted by one of the devices propagates to all devices added in the Zone. In a Zone, each device must be installed within the wireless transmission range of the closest nearby device to guarantee the good functioning of the mesh network.
2. Do not use more than one mobile device during the commissioning process. Using multiple mobile devices may cause unexpected results such as data corruption, duplicate light addresses, etc.
3. Ensure commissioning data has been synchronized to the cloud before sharing a QR Code. Before sharing the QR Code, please make sure the zone data has been uploaded to the cloud (requires internet connection). The app will try to sync the data automatically in the background to the server (cloud) whenever an update has been made to the zone. You may also select 'Force Sync' on the 'More' page to sync manually.
4. It is not recommended to connect 0-10V dimmer on a fixture equipped with a NUROAir device. The 0-10V dimmer may affect the operation and performance of NUROAir device.

Note: During the commissioning process, or whenever an update has been made to the zone, the app will try to save and sync the commissioning data to the cloud. This requires an internet connection, either by Wi-Fi or data connection.

- The mobile device must have a good internet connection during commissioning to save/update the commissioning data to the corresponding QR Code. If the internet connection is functioning properly, the app will sync the data to the cloud in the background. You may share the QR Code to other users immediately after commissioning is completed.
- If the mobile device does not have a good internet connection during commissioning, the user will see an error prompt in the 'More' page but may continue the commissioning process. Please remember to 'Force Sync' the data to the cloud when the mobile device has a good internet connection. DO NOT share the QR Codes to others before you successfully sync the data.
- If the mobile device has a poor internet connection, the app will attempt to sync commissioning data to the cloud, but each communication may take longer or may fail after a long delay due to the poor connection. In such conditions, it will be difficult to continue the commissioning process. It is suggested to turn off Wi-Fi (or put the phone in AIRPLANE MODE) and complete the commissioning process. At a later time when a good internet connection is available, the user can sync commissioning data to the cloud. DO NOT share the QR Codes to others before you successfully sync the data.

Commissioning Guide

NUROAir Support Contact

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www.nuroair.com