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INTRODUCTION

The SMRT Lighting controls APP can address luminaires individually or in groups, utilizing Bluetooth®Low Energy Mesh 4.2 & 5.0 protocols. This state-of-the-art wireless control system is operated using the The SMRT Lighting controls APP in conjunction with various sensors, wall switches, power packs, and controller nodes. The system components are easily commissioned using the The SMRT Lighting controls APP on a mobile device, without requiring a gateway. The mesh network enables wireless communication up to 100 feet or more between devices, and commissioning does not require anyinternet access.

The SMRT Lighting controls APP employs data encryption to ensure mesh network security. **The configuration settings for each device** is stored in encrypted QR codes and each network device cannot be accessed **without the QR code**.















Smart lighting control refers to a type of lighting control system where controls are configurable, **allowing** for independent control and management of control zone. Smart Sensors can detect human movements, ambient light level, and automatically turn on/off or dim the lights to provide comfort, safety, and energy savings.



SYSTEM CAPABILITIES

The SMRT controls system has the following capabilities:

- 1st Time Delay (T1): Lights will maintain WORKING LIGHTLEVEL during the T1 period (in minutes) each time they detect human motion.
- 2nd Time Delay (T2): After lights have not detected any movement during the time period set in T1, T2(in minutes) will start.

The brightness of lights will be reduced to DIM LEVEL during the T2 period to remind users that **the lights will soon turn off.**

At the end of T2, lights will turn off

- DimLevel: Defines the brightness of lights during T2 period. Set as a percentage (%) of WORKING LIGHT LEVEL
- Linkage light Level: If no movement is detected during T1, but other lights in the same group detect movement, and the linkage is turned on in this group, this light will dim to linkage light level. Linkage light level is calculated as a percentage of the WORKING LIGHT LEVEL. Note: Linkage can override T2

- Working Light level: Defines the light
 level when a light's sensor detects human
 movements. The WORKING LIGHT LEVEL
 of a light is automatically controlled by a
 photosensor (if it is equipped with one). The
 WORKING LIGHT LEVEL may change according
 to the level of ambient light.
- Auto Calibrate: It is suggested to use AUTO
 CALIBRATE to set the WORKING LIGHT LEVEL,
 which has a self-learning process to remove
 ambient light interference for more precise
 results.
- Manual Set: A user may choose to manually set the WORKING LIGHT LEVEL. When making this setting, it is critical to exclude the ambient light by shielding the lights from sunlight or user can make this setting during nighttime.

Recommended Parameter Settings By Space Type

Suggested settings for zone type							
Zone	1st Time Delay (T1) (minutes)	2nd Time Delay (T2) (minutes)	Dim Level (%)	Linkage light level (%)	Scenes	Wall Switches	
Openofficearea	25 min	1 min	50%	50%	No Scene	Button programmed to ALL OFF for quickly turning off lights when leaving office	
Meeting room	25 min	1 min	80%	80%	Configure PPT/ Lecture scenes	Associate PPT / Lecture scenes to SCENE button on wall switch	
Classroom	30-40 min	5 min	80%	80%	Configure PPT / Lecture scenes	Associate PPT / Lecture scenes to SCENE button on wall switch	
Storage Room	10 min	1 min	80%	80%	No Scene	No switch	
Corridor	10 min	1 min	50%	50%	No Scene	No switch	

SYSTEM CAPABILITIES, CONTINUED

Capacity Limits

The following chart provides the capacity limits of the SMRT Lighting controls system:

Luminaires	Up to 100 lights (nodes) per zone. Unlimited zones available with each zone having its own sharable QR code with commands and setting info assignable for administrative or user level	
Luminaire / Group	A light can be a member of up to 20 groups.	
Scene	Up to 32 scenes can be set to a light. Up to 127 scenes can be set to a zone.	
Schedule	Up to 32 schedules can be set to a zone.	
Switch	Up to 32 switches can be set to a zone. <i>Note: switches and lights are calculated separately. Adding switches to a zone does not affect the maximum number of lights.</i>	

Control Intent Narrative and Sequences of Operations

Priorto purchasing and installing any SMRTsystem, facility managers should define owner requirements and control system goals with a design document called the Control Intent Narrative (CIN) and Sequences of Operations (SOO). This will include facility and/or space purposes, operating schedules, applicable codes and standards, integration, project goals, and preferred vendors. The Control Intent Narrative and **SOO may be somewhat vague at the beginning of the project and become fleshed out over time. Two** industry standards that can assist in creating the Control Intent Narrative 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 Sequences of Operations

At a minimum, the Control Intent Narrative and SOO should contain:

- Afloorplanandthefunctions of each zone
- Each light's model number, quantity parameter, and position
- Definitionof Zones. It is recommended to divide a site into zones according to their lighting functions. Make sure each zone contains no more than 100 with no objects that may block the wireless signal transmission, such as concrete walls or large metal objects. The size of a zone should not outreach the limit of wireless coverage (ideally within a radius less than 150 feet and keeping zones to less than 9000 square feet)
- Group number, group name, scene number, scene name, and approximate scene design for each zone
- Switch type and number, as well as the function of the buttons for each zone.

CAUTION

- 1. 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.
- 2. Ensure commissioning data has been synchronized to the cloud before sharing QR code.
 - Access rights to the zone can be shared to other users by sharing the QR code. Before sharing the QR code, please make sure the zone data has been uploaded to the cloud (requires internet connection). The SMRTAPP 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 click 'Force Sync' on the 'More' page to sync manually.

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 WIFI 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 code 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 WIFI (or put the phone in AIRPLANE MODE) and complete the commissioning process. At a time later when a good internet connection is available, the user can sync commissioning data to the cloud.
 DO NOT share the QR code to others before you successfully sync the data.

HOW TO DOWNLOAD AND NAVIGATE THE APP

To download the SMRT APP, scan the QR code below, which corresponds to the type of smart phone that will be downloading the APP:





ANDROID

iOS

The APP supports most Android smart phones. Some Android phone models may not be supported due to issues with the phone's

hardwareorfirmware. TheAPPrequires access to the network and Bluetooth, so please approve access requests from the APP. The APP will not collect user's private data. Accept the prompt to allow access to photos for QR codes to be automatically saved in your album.

SMRT will update the APP when there are **new features or bug fixes. Please enable the** auto update of the APP so that new version of the APP will be pushed to your mobile phone.

APP Navigation

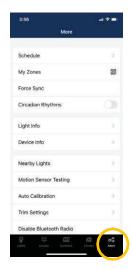
The SMRT APP has **five tab pages** which you can move between to provide easy control of your lights. They are located in the bottom menu bar of the screen.

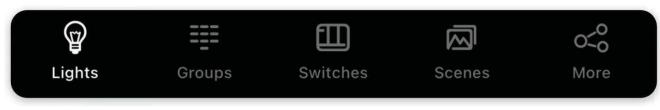












"Lights" shows all lights that are connected to the app. It allows the user to view and control individual lights. "Groups" allows user to create and manage groups.

"Switches" displays all switches that are connected to the APP. It also allows the user to view/edit switch controls. "Scenes" allows the user to create and manage scenes.

"More" allows the user to view Schedules, Zones, Light and Device Info, and other additional settings.

APP Navigation, continued



Light Icons

Every light connected to the APP will be listed on the Lights page.

Each light can display different icons to indicate the state of the device:

- A. Auto-off-Lightoutputis off, and will be triggered to auto-on if motion is detected.
- B. **Auto-on** Light output is on, and light is operating in auto mode.
- C. Manual-off-Lightoutputis off, and lightoutput stays off until a scheduled event or manual command overrides this.
- D. Manual-on Light output is set to a manual override level via a scene trigger or manual override command. It will return to autooff mode automatically after the sum of the motion sensor delays.
- E. Offline Controller is most likely either not getting power or is out of range of the mesh network.
- F. **Blue Light Name** This is the light which the phone/tablet is using to connect to the mesh network.
- G. All Lights A default full system on/off switch, toggles all lights in the region between auto-on and manual-off.

The More Page contains additional settings and features of the APP.





COMMISSIONING

The following commissioning procedure is recommended:

Preparation Work:

1

- a. Define the Control Intent Narrative and SOO
- b. Install lights and test power for each

2

Setting Lights, Groups, and Scenes:

- a. Create Zones and generate QR Codes
- b. Connect lights to the APP
- c. Group lights
- d. Create Scene settings
- e. Add switch controls
- f. Set switches, timers, and schedules



Set Lights with Sensors:

- 3
- a. Set sensor parameters
- **b.** Configure light linkage levels
- c. Set Auto Lightlevels



Deliver Project:

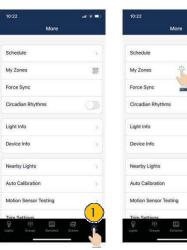
a. Share QR codes

ZONES

It is recommended to create QR codes for all zones and pre-define all groups, scenes, and their names

prior to commissioning in order to reduce work on site. A QR code represents a zone and all of the lights, switches, and other devices in that zone. For more information on scanning, creating, and sharing QR Codes, see the QR Code chapter, on page 21.

Creating Zones



1. Start the SMRT APP and click the More page.



2. Then click the "My Zones" button.



3. Click "Create" in the top-right and then click "Confirm."



4. Input the name of the QR code and then click "OK."



5. All zones can be found in the "My Zones" list and you can switch between them by clicking on them.

Renaming Zones



1. On the My Zones page, press the edit button located to the right of the zone name.



- 2. Enterpreferredzone name as prompted.
- 3. Press "OK" to save.

Deleting Zones



1. Select the **Zone** to delete and slide finger from right to left over that Zone.



- 2. Press the red delete button that appears.
- 3. Confirm by pressing "Delete."

Note: User cannot delete the zone in which they are currently active

GROUPS

Groups enable control of a defined set of lights, in a small area.

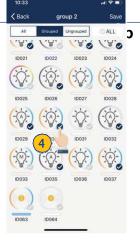
The APP provides a default group named "All Lights" which gives the user control over all lights in the zone.



- 1. Select the "Groups" page in the bottom menu.
- 2. Clickthe "+" in the top left corner.



3. Type the group name and then press "**OK**".



4. Select the lights that you want to add in the group by clicking the checkbox in the bottom right of the desired Light icon.



- 5. **Use the filter at the top** of the screen to help add proper lights to the group:
- All: All lights are shown
- Grouped: Only lights added to at least 1 group are shown
- Ungrouped: Only lights that have NOT been added to a group are shown

6. After all Lights have been selected, press "Save" to save the Group.

Rename a Group



1. Click the Group that you wish to rename.



- 2. Enter new group name as prompted
- 3. Click"OK" to confirm.

Deleting a Group



 Select the Group to delete and slide finger from right to left over that Group.



- 2. Press the red delete button that appears.
- 3. Confirm by pressing "Delete."

GROUPS, CONTINUED

Add or Remove Lights In a Group

At Lights At Lights Croups At Lights Croups At Lights Croups Croups

- Select which group to add or remove lights, from the Groups page.
- 2. Tap "Members" to see all current lights in the group.



- Select which lights you want to add or remove.
- 4. Press "Save" to confirm changes.

Adjust Group Linkage Level



- Choose which group to change linkage settings, from the Groups page.
- Click "Linkage" to access the group linkage controls.



- 3. Set linkage brightness level according to preference.
- 4. Press "Save Linkage Brightness" to confirm changes.

Turn Group Lights On/Off



Note: Clicking this toggle button will send ON/OFF commands to the group, however, it does not reflect the current ON/ OFF status of the group.

- 1. Choose which group to turn ON or OFF.
- Click the ON/ OFF switch in the upper right corner of the Group.

Turn On/Off Group Linkage



- Choose which group to turn on/ off linkage, on the Groups page.
- 2. Toggle the "Link" button to turn linkage on or off.

Note: For a light to respond to the 'Link' command from other lights in the same group, the 'Motion Sensor' function must be enabled for this light, even if the light does not have a motion sensor connected to it.

GROUPS, CONTINUED

Adjust Group Dimming



- 1. Choose which Group to change dimming settings, on the Groups page.
- 2. Tap "**Dimming**" in the lower right corner.



- 3. Select which dimming settings to change.
- 4. Set dimming and/ or tuning levels.
- 5. Set wattage levels.
- 6. Press "Back" to save changes.

The available dimming control on the dimming page depends on the light types in this group.

The light types in the group are shown on the bottom of the dimming page. The user can choose to dim certain type of lights in this group.

Activate Auto Mode

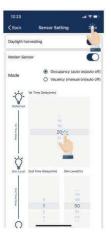
To set all of the Lights in a Group to Auto mode, that are controlled by sensors:



 Choose which group to turn on/off Auto mode, on the Groups page.



2. Click the "Auto" button to turn auto mode on **or off, for all** of the Lights in this Group.



4. Click "Save"

tosavesensor

parameters.

3. If there are lights with sensors in a group, you may set the sensor's parameter by clicking the sensor icon on the bottom right corner of the Dimmingpage.

SCENES

Scenes establish programmed settings for individual lights or groups of lights. The Scenes can be set manually by users. The APP also has three default Scenes defined: All Off, Full Light, and Auto Light. Activating a scene will cause all members to adopt the settings to the selected scene. Users mustadd lights first, then the next step is sensors etting before creating groups and scenes.

Create a Scene



- 1. Select the "Scenes" page in the APP.
- 2. Click the "+" button in the upper left corner.



3. Type in the scene name and press "OK"



4. Select a desired icon to be the scene icon.



5. Select the individual 6. Click "Save" to lights or groups that will participate in the scene. An extended press on a light or a group will dim the light or group.



save the scene settings.

Edit Scene Settings



- 1. Select the scene icon of the scene to edit/program.
- 2. Press and hold the scene icon to edit scene settings.



- 3. Press and hold Lights/ **Groups and define** settings desired.
- 4. Click "Save" to save the scene settings.

To Delete a Scene



1. Press the "-" button in the upper right corner.



- 2. Selectwhichscene(s) to delete.
- 3. Press "delete" to confirm.

LIGHTS

The Lights page is the first page you'll see upon opening the APP. It is the primary page for controlling individual lights. Add lights by zone, and do not turn on more than 100 lights at the same time.

To prevent wireless communication jamming, turn off lights that are not in the current zone.

To Add Lights Into The APP



- 1. From the Lights page, click the "+" button in the upper left corner.
- 2. The APP will scan for lights that can be added to the zone. Lights can be identified in a room by pressing theicons to turnit on and off.



3. Select Top20, Top50 or All from the filter at top of screen to show lights with the strongest Bluetooth signal



4. Select the lights you want to add by pressing the check mark located in the lower right corner of desired light icons.



5. Click "Add" to associate all of the selected lights into the zone.



- 10:24 Added Added Filter Top20 Top50 All
- 7. Click the "Back" button to return to the Lights page.

Confirmthat

alllights
have been added and
successfully connected
with the APP.

8.

Note: Commissioning performance may deteriorate if there are more than 150 factory-setting lights powered up at the same site. Please power off some factory-setting lights before continuing.

6. Confirm by clicking the "Add" button in the dialog box. A light will blink to indicate a successful connection.

LIGHTS, CONTINUED

To Name or Rename Lights



1. From the Lights page, do an extended press on a selected light to go to the Dimming page.



(A)

2. Clickonthelight's name located in the upper left of the dimming/ tuning slider.





- 3. Enter the light's new name in the dialog box.
- 4. Press "OK" to save.

Quick Dimming and Color Tuning



1. From the Lights page, a quick click on a light's icon will turn it on or off.



2. Lightlyslide afinger leftorrightacross the light's icon to adjust brightness.



3. Lightlyslideafingerupordown over a light's icon to adjust the color

LIGHTS, CONTINUED

Dimming Settings

Fromlefttorightbelowareexamples of the Light Dimming pages for mono-dimmable, tunable white, RGB dimmable and for a direct/in-direct dimmable light.



1. From the Lights page, do an **extended press** and hold on a light's icon to open the Light Dimming settings page.



2. The Light Dimming settings page appearance will vary according to the light's capabilities.

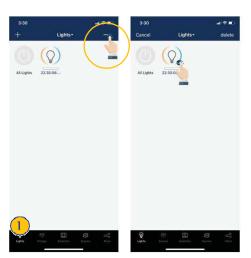


3. Set to the desired dimming and tuning levels.



4. Click the **Back** button to save settings.

To Delete Lights



- 1. From the Lights page, click the "-" button in the upper right corner.
- 2. Select the lights you want to delete, by giving it a tap and check mark.
- Cancel Lights

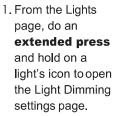
 Delete 1 Light (s)
 Light(s) Will be factory reer. Add these Light(s) again to control them.

 Cancel delete 1.
- 3. Click "delete" in the upper right corner.
- 4. Click "delete" in the dialog box to confirm.

LIGHTS, CONTINUED

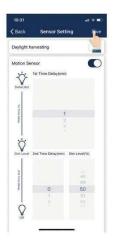
Sensor Settings







2. Clickthe "Sensor Settings" icon in the lower right corner.



3. Enable ordisable motion sensors, and set levels as desired.



4. Click the "Save" button in the upper right to save sensor settings.

SWITCHES

SMRT switches can be added to the APP to control individual lights or groups. Depending on the type of switch, up to 3 scenes can be associated with a button. Switches will automatically stop pairing after 30 seconds or when a button is pressed. Switches are a dded into the Zones in which they are located.

Add a Switch





Note: Please set the switch to pairing mode, then click '+' on the APP to add the switch to the ZONE.

- 1. Select the "Switches" 3. The APP will search for page of the APP.
- 2. Press the "+" button in the upper left corner.
- nearby switches.

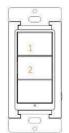
4. Follow the instructions below in order to pair the specific Switch type.



Press the button 1 and 2 together and hold for 2 seconds and then release.



Press the button 1 and 2 together and hold for 2 seconds and then release.



Press the button 1 and 2 together and hold for 2 seconds and then release.



Press the button 1 and 2 together and hold for 2 seconds and then release.

10-38 + Switches waiti 01 2

- 1. From the Switch page of the APP, select a switch to rename.
- 2. Pressthe settings button in the upper rightcorner to access switch settings.

Rename a Switch



4. Enter the new switchname and press "OK" to save.

Delete a Switch

3. Clickthecurrent

switch name

upper left.

displayed in the



- From the Switch page of the APP, select which switch(s) todelete.
- 2. Press the settings button in the upper right to access switch settings.



- 3. Tap the trash icon in the upper right corner.
- 4. Click "delete" to

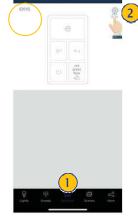
confirm.

5. Click the "Back" button in the upper left corner to return to the "Switch" page.

Edit Switch Settings

ButtonFunctions vary for different types of switches. For some switch models, buttons have **pre-defined functions and can't be associated to** scenes. Set the functions of the switches based on the type.

Associate Lights To Switches
Associate a button to a light and the user
will be able to turn the light on or off by
pressing this button.



- 1. From the "Switches" page of the APP, select the switch to assign lights.
- 2. Press the settings button in the upper righttoaccessswitch settings.



- 3. Click "Lights" to see a list of individual lights.
- 4. Selectonly one light to assign to the switch.
- 5. Click "NextStep" at the bottom to continue.

Associate Groups To Switches Associate a button to a group and then the user can turn the group on or off by pressing this button.



- 1. From the "Switches" page, select a switch to assign a group.
- 2. Press the settings button in the upper righttoaccessswitch settings.



- 3. Click "Groups" to see a list of groups.
- 4. Select only one group to assign to the switch.
- 5. Click "Next Step" at the bottom to continue.

Associate Scenes To Switches



Associate scenes to a button and the user will be able to change between these scenes when the user presses this button. Usually, a button can be associated with up to 3 scenes.

- 1. After associating one light OR group to the switch, there will be a **prompttoselectscenesnext.**
- 2. Select up to three scenes.
- 3. Click "Save" to confirm.

Note: 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.

Ceiling Sensors

Ceiling sensors will also show up on the Switches page. There are two types of ceiling sensors:

- 1. Dual mode ceiling sensor, SMRT-DT-WH-BT: It has Ultrasonic, PIR and photocell sensors inside.
- 2. PIR ceiling sensor, SMRT-PIR-WH-BT: It has PIR and photocell sensors inside.

A ceiling sensor can be associated to a group of lights and will turn on/off thegroup at specified conditions. It also has a relay to switch on/off a circuit. Please set the trigger/hold on condition, hold time, sensitivity and photocell threshold according to installation requirements.



1. Click the setting **button to configure** the ceiling sensor.



SMRT-PIR-WH-BT



SMRT-DT-WH-BT

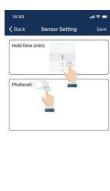
SMRT-PIR-WH-BT Configuration

When the photocell is enabled, the sensor won't turn on until the ambient light is below the threshold, even if a motion is detected.

You may rename the sensor, input the rated wattage for relay output load, and associate the sensor to a light group.



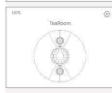
1. Then click "Next Step" to set the sensor parameters.



2. You may set the hold time

 You may set the hold timeof the PIR sensor, enable/disable photocell and setthe photocell threshold.







3. Click "Save" to save the settings.

SMRT-DT-WH-BT Configuration

You may rename the sensor, input the rated wattage for relay output load, and associate the sensor to a light group.



- 1. Then click

 "NextStep" to
 set the sensor
 parameters.
- 2. You may set the sensitivity of PIR and Ultrasonic sensors, how motion should be triggered and held, the hold time, enable/disable photocell, and set the photocell threshold.
- 3. Click "Save" to save the settings.

TRIGGERED BY and HOLD ON options:

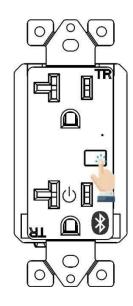
- PIR only motion detected by PIR is effective.
- Ultrasonic only motion detected by ultrasonic is effective.
- PIR + Ultrasonic only motion detected by both PIR and ultrasonic is effective.
- PIR or Ultrasonic motion detected either by PIR or ultrasonic is effective.
- None similar to vacancy mode, motion won't trigger any action.

When photocell is enabled, the sensor won't turn on until the ambient light is below the threshold, even if a motion is detected.

ADDITIONAL DEVICES

There are a variety of SMRT advanced control products that do not directly control luminaires. These include plug load controllers, bridges, emergency lighting control devices, energy monitoring dongles, and RTC dongles. In the APP, most of these are referred to as "Devices."

Plug Load Controllers





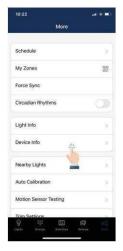
Plug load controllers appear on the Lights page. They can be **automatically turned on or off when grouped with other lights,** and then linked.

To turn the plug load controller on or off, press the button on the face of the receptacle.

To reset the plug load controller to factory settings, press and hold the button on the receptacle for 6 seconds.

To add the plug load controller to a zone, press and hold the button on the receptacle for 6 seconds.

SMRT-SCHEDULER-RTC-B-BT Energy Monitoring Dongle



To add an Energy monitoring dongle:

1. From the Morepage, click the "**Device**Info" button.



2. Press "Click to Add" to have the APP search for the newdevice.

ADDITIONAL DEVICES, CONTINUED

SMRT-BMS-BRIDGE



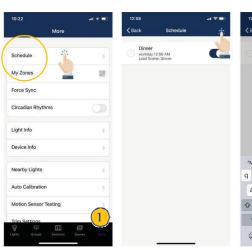
Toadd SMRT-BMS-BRIDGE after it is plugged into a USB port:

- 1. From the More page, click the "**Device Info**" button.
- 2. Press "Click to Add" to have the APP search for the new device.

SCHEDULES

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.

Create a Schedule



- 1. From the "More" page, press "Schedule".
- 2. Click the "+" in the upper right corner.
- Create Timer

 Morning Morning's Morning's Q W e r t y u i o p

 a s d f g h j k I

 Q z x c v b n m

 123 space return
- 3. Type in a name for the schedule.
- 4. Press "OK" to continue.
- 5. The user will need to associate the Schedule to lights, groups, or scenes, as well as set the schedule's time, before saving the Schedule.

Associate a Schedule To Lights, Groups, or Scenes



1. On the Edit screen of a selected schedule, press "Scheduled".



- 2. Choose between "Lights", "Groups", or "Scenes".
- 3. Selectonelight/group/ scene to schedule.
- 4. Press "Done" to continue.

Set The Schedule's Date And Time



1. On the Edit screen of a selected schedule, press "Set time".



- 2. Choose preferred date for the schedule.
- 3. Choose preferred time for the schedule.
- 4. Press "Done" to continue.

SCHEDULES, CONTINUED

Set a Repeating Schedule



- 1. On the Edit screen of a selected schedule, press "Set time".
- 2. Click to enablethe Repeat switch.



- 3. Choose which days of the week you want the schedule to repeat.
- 4. Set desired time for the schedule.
- 5. Press "**Done**" to continue.

Set Fade Time For a Schedule

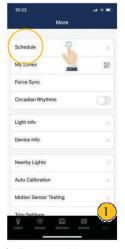


1. On the Edit screen of the selected schedule, press "Fade Time".



- 2. Set Fade Time to a desired duration.
- 3. Click "Done" to continue.

To Delete a Schedule



 From the Morescreen, click "Schedule" to see a list of all schedules.



- 2. Select which schedule to **delete and swipe finger** to the left.
- 3. Press the red "**Delete**" button that appears.
- 4. Press "delete" to confirm.

Enable Or Disable a Schedule



1. From the More screen, click "Schedule" to see a list of all schedules.



 Select which schedule to enable/disable and click the enable/disable button on the right.

QR CODES

Whenever a zone is created, two QR codes are automatically generated, one for the **Admin level** and one for the **User level**. The QR codes represent the zone, as well as all of the lights, switches, and groups associated with that zone.

The **User** QR code allows the user to dim, activate a scene, or control lights on that zone, but it does not allow the user to add, delete, or change lights, groups, or scenes. The **Admin** QR code allows a user to control and edit all settings within the APP. Only users with the Admin QR codes can share Admin QR codes.





To Scan QR Codes

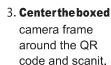


1. On the More page, click on My Zones.



2. Select a zone in the list or click "Scan or Select QR code".







4. You can also select QR codes saved in the phone by pressing the "Album" button.

Scan or Select QR code

 The APP will automatically add a new scanned Zone after the QR code has been scanned.

QR CODES, CONTINUED

To Save QR Codes



- 1. Allow the APP access to photos for QR codes to be saved to the phone.
- 2. Press the "Save" button located under the zone name.
- 3. QR codes will be saved on an auto-generated album folder "MyQRCode".

To Share QR Codes



1. From the **My Zones** page, select the Zone to share and click on either Admin or User.



 A QR code will be displayed on the app. It can then be scanned by another for sharing or you can screenshot it and send it to another for scanning.

AUTO MODE

Lights with sensors can:

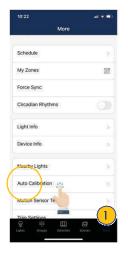
- Detect human movements with a motion sensor, and automatically turn on or off the light.
- 2. Detect ambient light using a photo sensor to automatically dim up or down the light while providing sufficient and comfortable lighting, and energy savings. Such functionality is also referred to as "daylight harvesting."

There will be an "A" in the center of a light's icon if the light is in Auto mode. Auto mode indicates that light's level is automatically controlled by sensors. A light with a sensor will store the data from the sensor in the APP. This enables a light to fully 'harvest' natural light to dim itself, while maintaining a comfortable, safe, and energy saving light level.

There are two ways to set the Auto light level in the APP: "Auto Calibration" and "Manual Setting." To maximize energy savings, it is important to eliminate ambient light interference when setting the Auto mode light levels.

Set Auto Mode Using Auto Calibration

Auser specifies parameters and the lights will automatically remove the ambient light interference by a self-learning process to determine the appropriate Auto mode light level. It is recommended to test with one light in a real or simulated environment to find the appropriate parameters and then quickly batch setthelights using "Auto Calibration." During the Auto Calibration process, the lights will turn on and off several times.



1. From the "More" page, click "Auto Calibration".



Selectagroupfor Auto Calibration by clicking the group name.



3. Adjust parameters as desired.



4. Click the "Start" button to start Auto Calibration.



AUTO MODE, CONTINUED

Set Auto Mode Using Manual Setting

"Manually setting" allows users to customize the Auto mode light level. The light will remember the light reading from the sensor directly without considering the ambient light. It is the user's responsibility to make sure the light level is correct by setting it at night or with the sunlight (or ambient light) shielded. By default, the Auto mode brightness starts at 100%.



 On the Lights page, click and hold a light icon to access the "Light Dimming" settings.



- 2. Adjust the dimming levels and color temperature as desired.
- 3. Enable Auto Mode by pressing the Auto button in the lower right.



 A confirmation will appear that the Auto Mode brightness level has been updated.



It is also possible to set a group to Auto Mode from the Groups page, using the Auto button to the right of a group name. Note: Auto mode only applies to lights with sensor functions enabled, either motion sensor and/or photo sensor. When Auto light level has been set, the lights will return to the brightness/color each time it is powered on, or turned on by the APP, switch, or schedule. Auto light level does not apply to lights with sensor functions disabled, even when it has a sensor connected to it. Each time it is powered on, it will return to the last brightness/color.

ADDITIONAL SETTINGS

Checking Lights, Groups, and Scenes Information

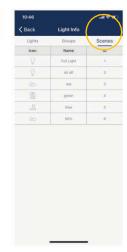
From the More page, The Light Info tab will display a list of all of the information for lights, groups and scenes in a zone.











Switch between Lights, Groups, or Scenes to display the desired information.

Checking Other Devices Information



1. From the More page, click "Device Info" tocheck all gateway, transformer and sensor information.



To Check Nearby Lights

On the More page, the Nearby Lights tab is useful in the commissioning process because it lists all online lights that are connected and not connected to the APP.



1. From the More page, click "Nearby Lights".

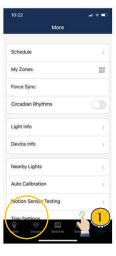


2. Pressthe Refreshbutton if lights don't show up.

ADDITIONAL SETTINGS, CONTINUED

Users can set the High Trim and Low-End Trim that **defines amaximum and** minimum power for lights and groups.

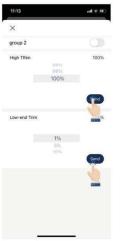
Trim Settings



1. From the More page, click "Trim Settings".



2. Select Lights or Groups to change settings.



Note: There is a 'Daylight min dim', which is the minimum level that daylight harvesting sensor can go when it is enabled.

- 3. Set to desired trim settings.
- 4. Click "**Send**" to send trim settings to the light or group.

Circadian Rhythms

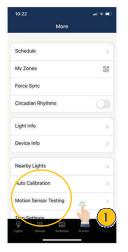
Circadian Rhythm synchronizes all of the lights' color temperature, and adjusts them based on the time of the day, in order to mimic natural daylight. This only applies to tunable white lights that are set in Auto mode.



- 1. From the More page, click the enable/disable button **next to Circadian Rhythms.**
- Enabling Circadian Rhythms will automatically sync color temperature across all color tunable lights in Auto mode.

Motion Sensor Testing

Motion Sensor Testing allows users to test if motion sensors are working properly. Lights must first be set to Auto mode before running thetest.



1. From the More page, click "Motion Sensor Testing".

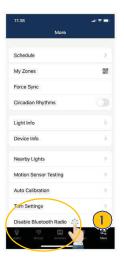


- 2. Click to start the test. Lights with **motion sensors should turn off** as soon as the test is started.
- 3. Walk around to test the sensors and trigger the lights to turn on. Please wait for 6 seconds to trigger the sensor.

ADDITIONAL SETTINGS, CONTINUED

To Disable Bluetooth Radio

Disabling the Bluetooth Radio disconnects all of the lights' connections to the APP to easily transfer control. To restore, sensors will need to be reset.







2. A warning dialog **box will appear.**Click "Continue" to accept.



- 3. Select which Lights or Groups, to disable their blue tooth connection.
- 4. Press "Disable". The APP will automatically refresh and syncsettings.

RESTORING FACTORY SETTINGS

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

Restore By Deleting Lights

The first way is by deleting lights from the APP. This is the easiest way.



1. From the Lights page, select the "-" button in the upper right corner.



Click the check for each light that you want to delete and reset.



 Click the "Delete" button in the upper right corner to delete and reset all selected lights.



4. Click "Delete" in the dialog box to confirm.

Restore By Power Reset

The second way to restorefactory settings is to do the following power reset sequence:

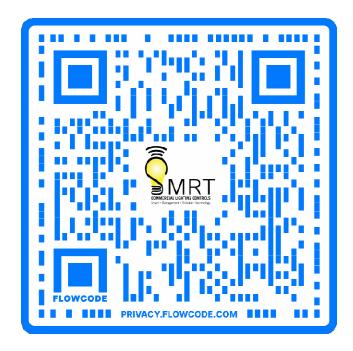
- 1. Confirm all lights are off.
- 2. Turn on lights for 8 seconds; then turn the power off for 10 seconds.
- 3. **Immediately turn the lights on and off, then wait for** another 10 seconds. Repeat 3 times.
- 4. Turn the lights on for 8 seconds, then turn the power

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 **powersupply.Ifthedrivercancutpowertothefixture** within 3 seconds, then you may change the waiting period from 10 to 3 seconds to facilitate a faster reset time.



Contact installsmrtcontrols.com with questions or for support.















