



# Fidelux

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**FTRV Generation 2 Smart Troffer  
iOS & Android Smartphone App (Smart Space LED)  
User Manual and Control Instructions Ver.6**



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## 1. General Description

This System provides iOS and Android apps for options to manage fixtures and equipment via Bluetooth system. Functions include:

- 1) Support monochromatic light dimming
- 2) Add or delete fixtures on APP
- 3) Group setting including turning on or off the group of fixtures, and group dimming
- 4) Scene setting lets users set desirable lighting scenes as needed
- 5) Different smart phones can synchronize data with specified privileges through scanning QR code
- 6) Manage the fixtures by one or more smart phones
- 7) Install and play without account and password

Fidelux reserves the right to make changes in this manual and/or app at any time without notice or obligation and will not be liable for any consequences resulting from the use of this publication. For latest app and manual, please contact our sales team.

## 2. Installation of the App

### 2.1 iOS App

*iOS App requires the iPhone in iOS 8.0 or latest version*

**Step 1:** Open "App Store"

**Step 2:** Search "Smart Space"

**Step 3:** Find the app and install it. The app icon is following:



### 2.2 Android App

*Android App requires the smartphone in Android 4.3 or latest version and Bluetooth in 4.0 or latest version*

**Step 1:** Open "App Store"

**Step 2:** Search "Smart Space"

**Step 3:** Find the app and install it. The app icon is following:



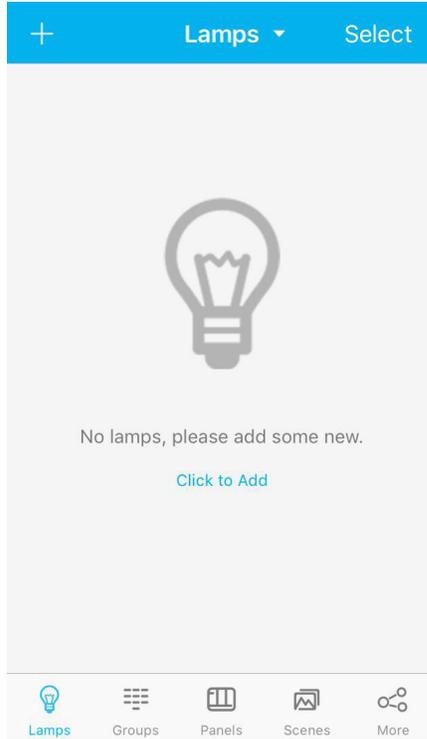
## 3. App Functions

Smart Space App requires communication between a smartphone with Bluetooth and fixtures or equipment. The Smart Space App must be installed and open to enable operation of fixtures via Bluetooth.



### 3.1 Navigation of app Function Pages

The functions of the Smart Space App includes five categories: «Lamps», «Groups», «Panels», «Scenes» and «More».



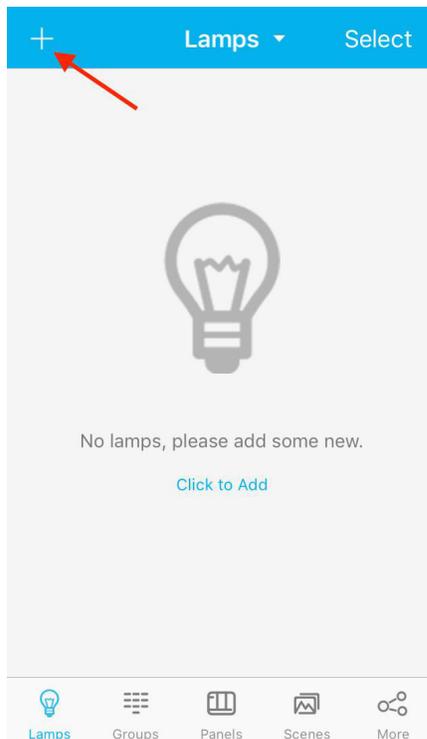
### 3.2 «Lamps» Function

Refer to installation instructions for more information about the fixture and operation. The following operations are performed in the “Lamps” function page.

#### 3.2.1 Add Fixtures

It is suggested to operate only by ONE smartphone to add fixtures to avoid confusion.

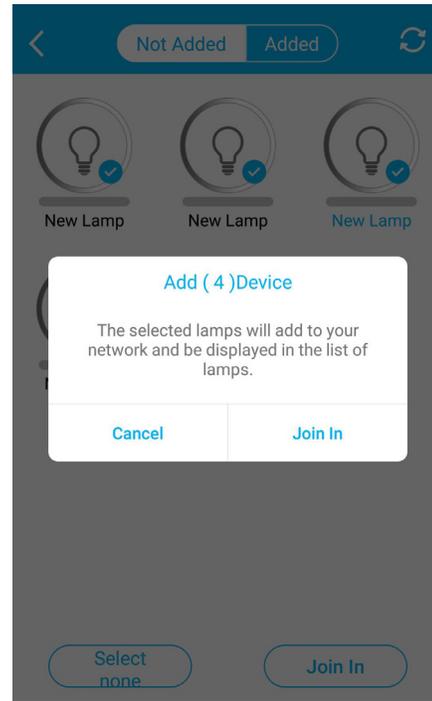
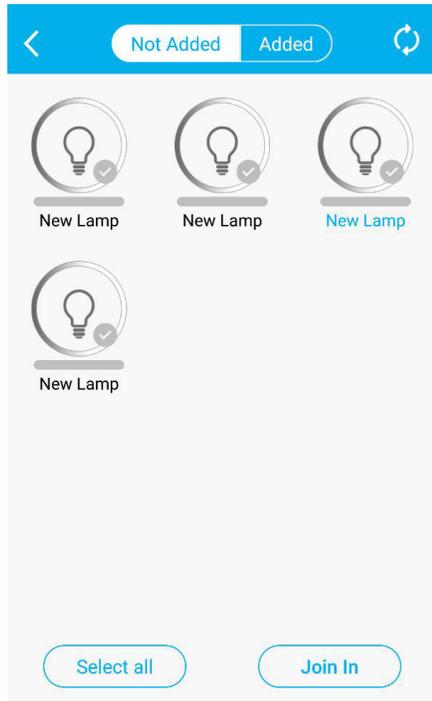
**Step 1:** Press the “+” button on the upper-left corner as shown and search the nearby fixtures.



**Step 2:** The searching pages will display the «Not Added» and «Added» lists. Press the icons of the fixtures. The corresponding fixture either be on or off to quickly find the desired fixtures.

«Not Added»:

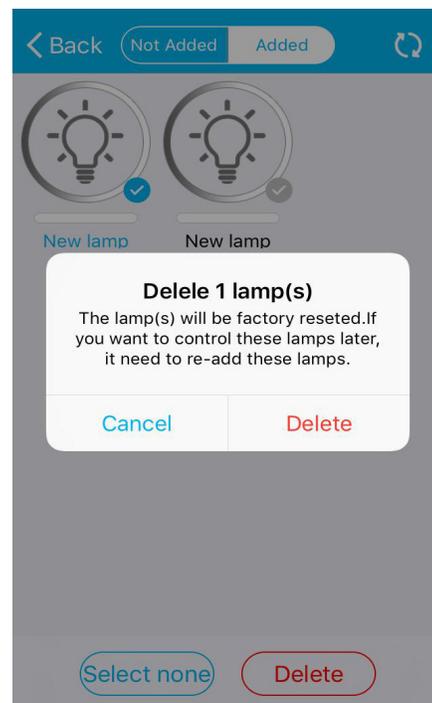
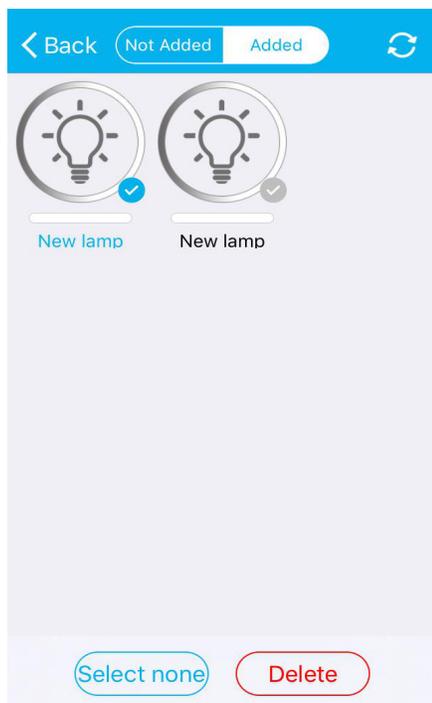
The searched fixtures not in the app system will be shown in the «Not Added» list. Select a fixture and choose «Join In» to add. The fixture will flash when it has been added successfully.



«Added»:

The searched fixtures in the App system will be shown in the «Added» list.

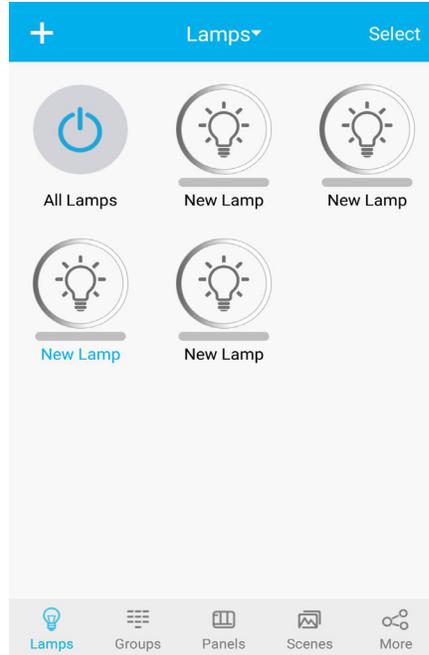
Select the fixture and choose «delete» to remove the fixture. The fixture will flash when it has been deleted successfully. The deleted fixture will be restored to the factory default settings.



The smartphone close to the fixtures and equipments for quick recognition.

**Step 3:** After adding or deleting fixtures, choose «Back» to return to the “Lamps” page.

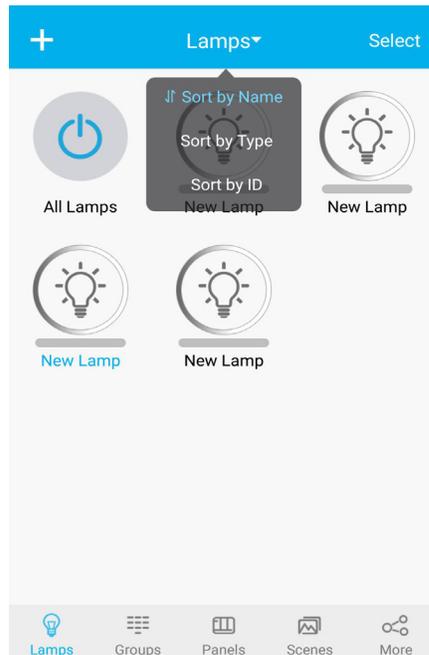
**Step 4:** Select «All Lamps» to turn on/off all the fixtures.



### 3.2.2 Sort Fixtures

**Step 1:** Press «Lamp» and pull down - menu will display.

**Step 2:** Sort the fixtures as needed: by Name, by Type, by ID.

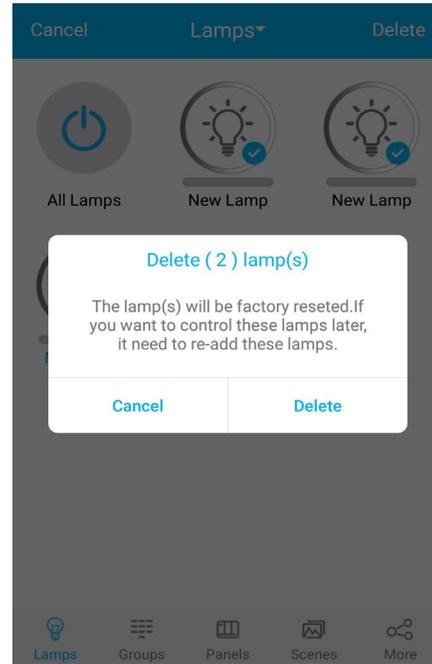
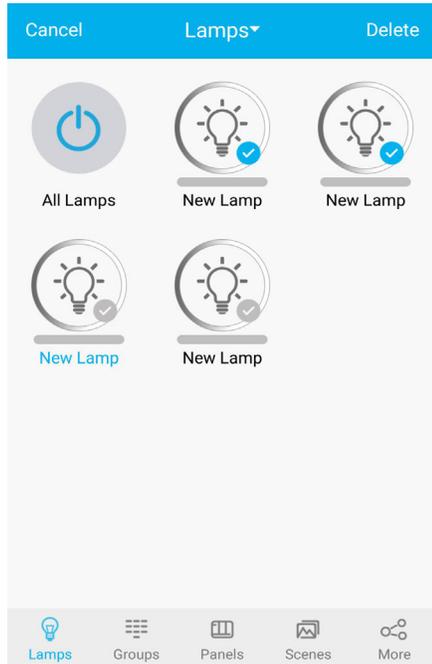


### 3.2.3 Delete Fixtures

**Step 1:** Press «Select» in upper-right corner. The fixtures' lower right corner «√» will turn grey.

**Step 2:** Choose the fixtures to delete and the tick «√» will turn blue.

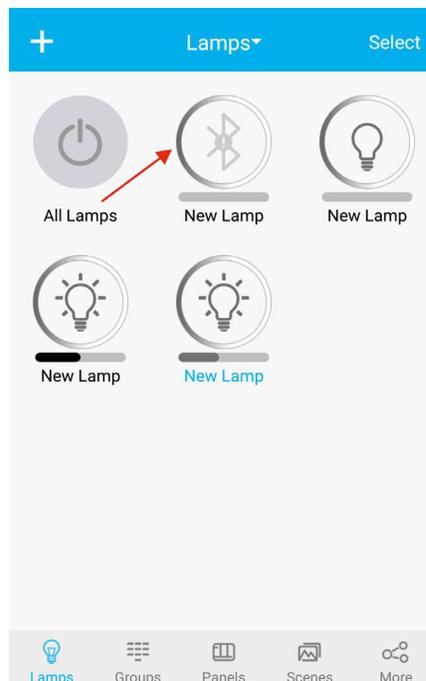
**Step 3:** Press «Delete» and confirm to delete. The selected fixtures will be excluded. The deleted fixture will flash 3 times when deleted successfully and will be restored to factory default settings.



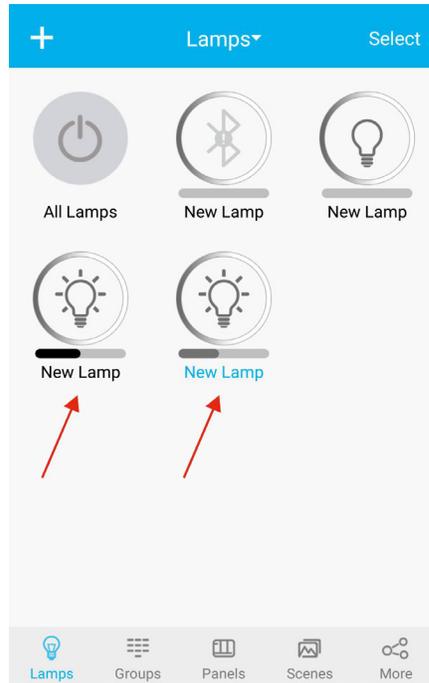
### 3.2.4 Fixtures Operation

The fixture has three statuses:

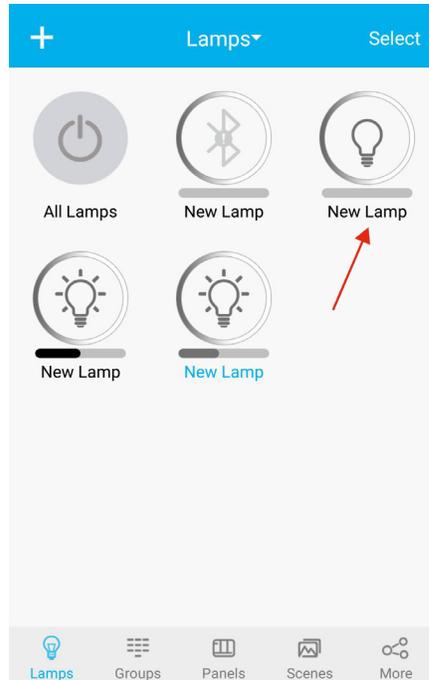
1) Offline: Fixtures disconnected from a power supply will show as «offline». Any operations will be out of work.



2) Online and Fixtures On: Fixtures connected to a power supply and shown as «On». The brightness level of these fixtures should be as shown below.



3) Online and Fixtures Off: Fixtures connected to a power supply and shown as «Off». The brightness level of these fixtures should be as shown below.

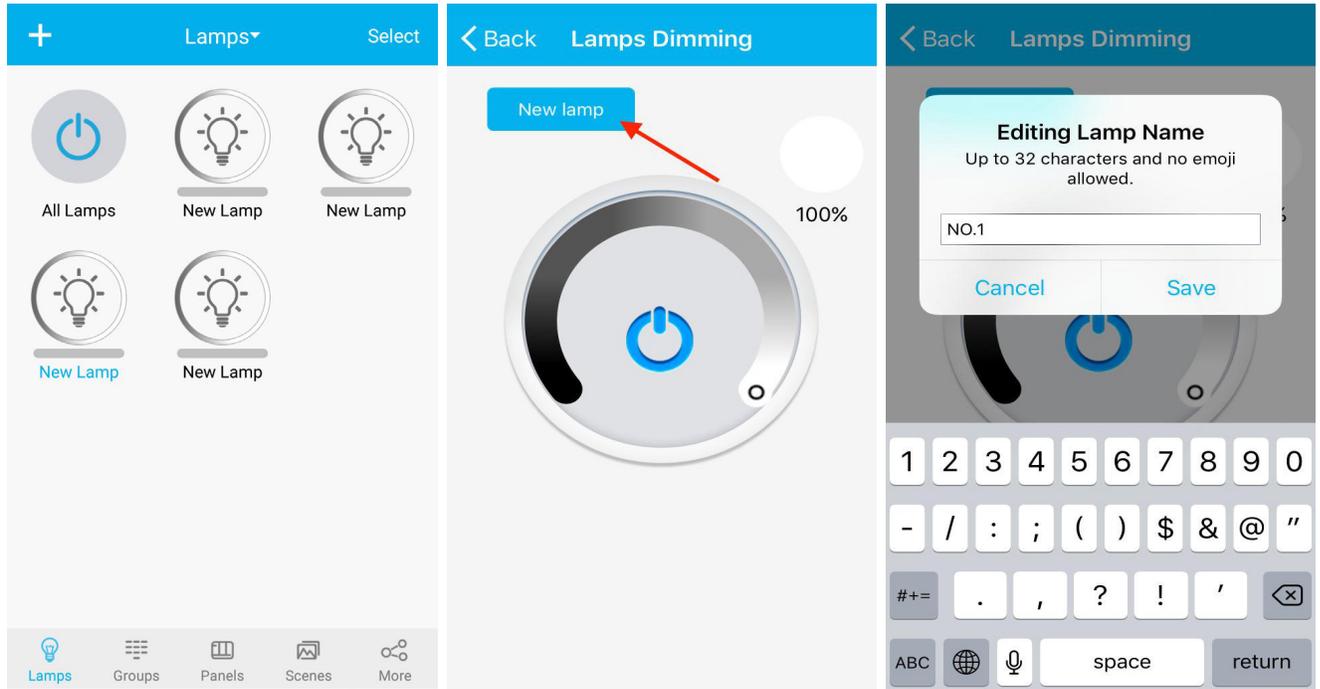


### 3.2.4.1 Fixtures Rename

**Step 1:** Press the fixture icon for more than 2 seconds to rename the fixture.

**Step 2:** Press «New Lamp» (the default name) to rename.

**Step 3:** Edit the new name and choose «Save» to save the new name.



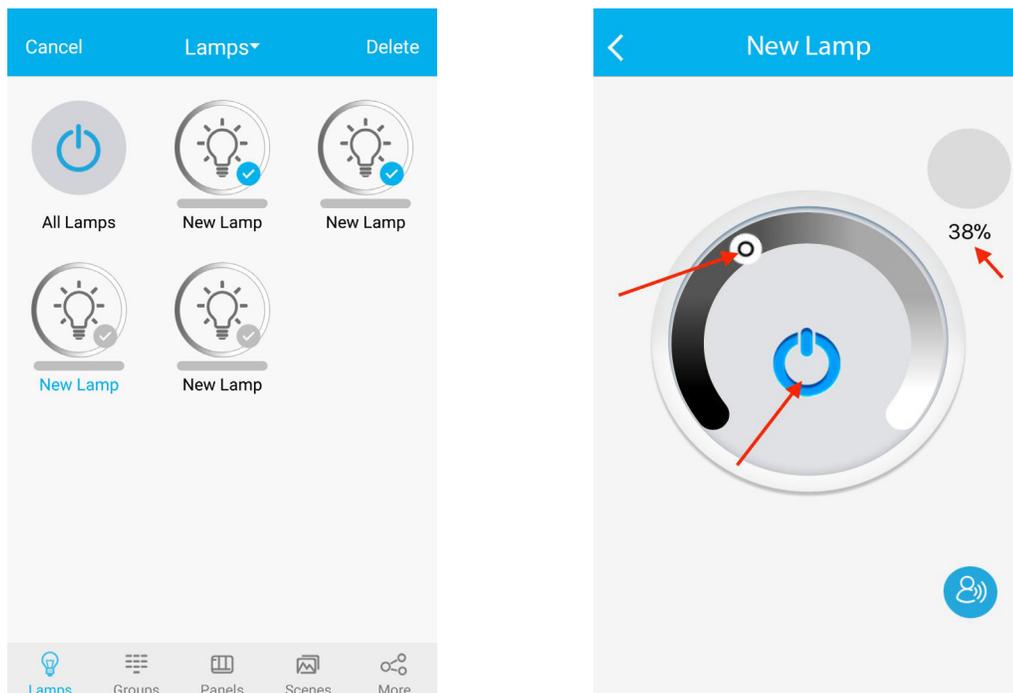
### 3.2.4.2 Fixtures Dimming

- 1) Press the fixture icon to turn «on» or «off»
- 2) Press the fixture icon for more than 2 seconds to dim
- 3) Quick dimming: slide from the left to right to dim the fixture

#### Monochromatic Dimmable Fixtures:

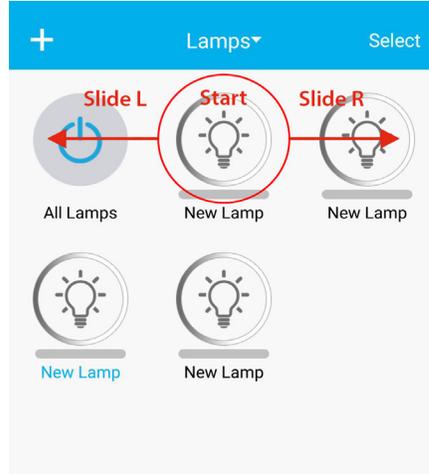
**Step 1:** Press the fixtures icon over 2 seconds to enter into the dimming page.

**Step 2:** Slide the circle icon on the arc bar to adjust the fixture's brightness. Press the middle button to turn «on» or «off» the fixture.



### 3.2.5 Quick Dimming

For the monochromatic dimmable fixture, take the desired fixture as the starting point and slide to the left or right to dim.



### 3.2.6 Occupancy Hold Time

**Occupancy Function:** the fixture will automatically turn on when an object comes within a certain distance. The user can set the duration of the trigger, the preparation time, and the brightness ratio.

**Duration Time:** The time for lights will always be recorded when movement is continually detected. For each detected activity of movement, the time will be calculated from the beginning.

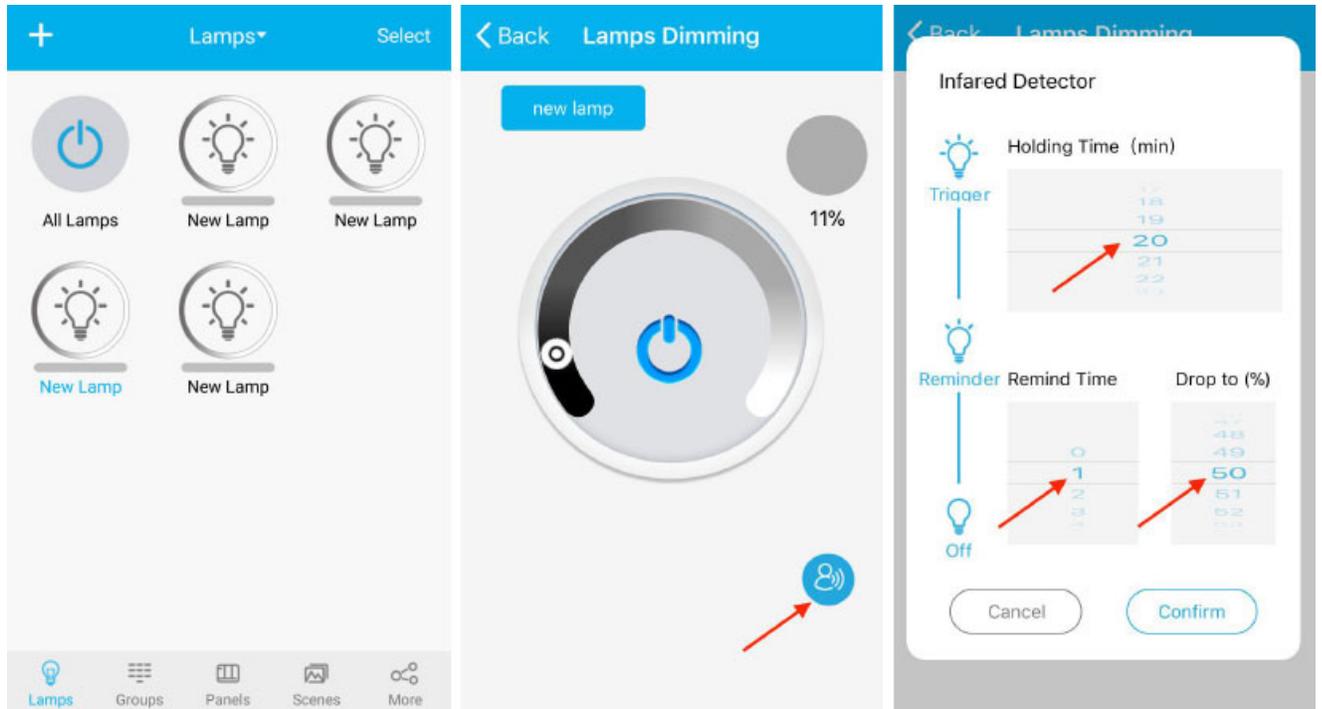
**Preparation Time:** During times of little or no movement activity, the fixture will reduce its brightness and will remain at that level until the duration time ends.

**Brightness Ratio:** When the duration is over, the fixture will bring its brightness under certain a light. Compared the decline brightness with the original brightness, the decline of brightness ratio will be found.

**Steps:**

1. Press the fixtures icon for more than 2 seconds to access the dimming page
2. Press the occupancy sensor settings icon
3. Set the duration, preparation time, step dimming - brightness ratio, press «Confirm» after setting.

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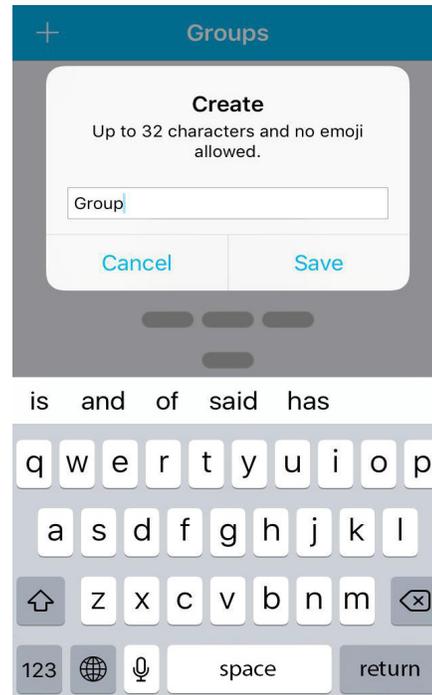
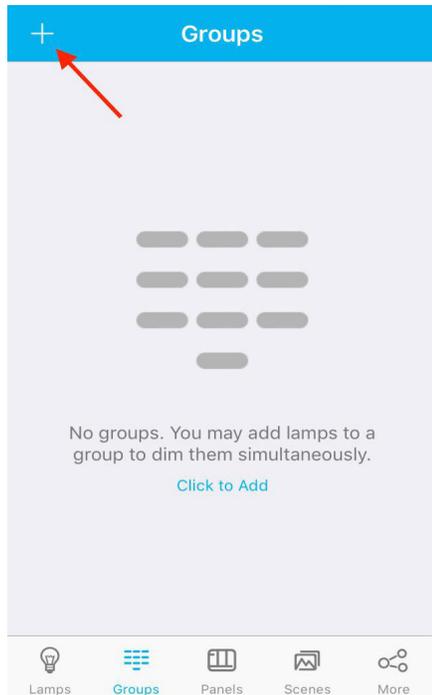


### 3.3 «Group» Function

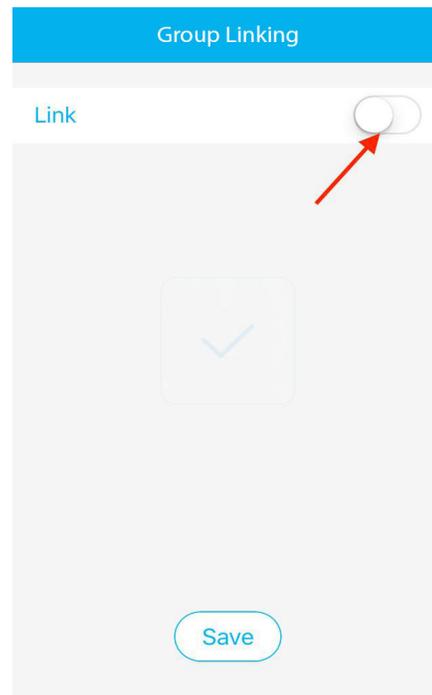
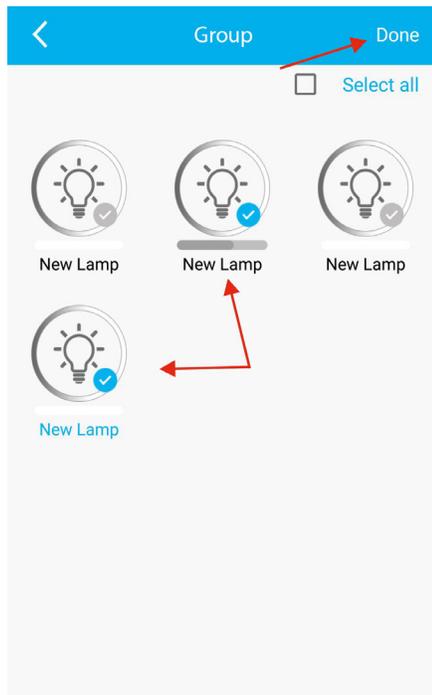
All of the following operations are performed in the «Groups» function page.

#### 3.3.1 Add Group

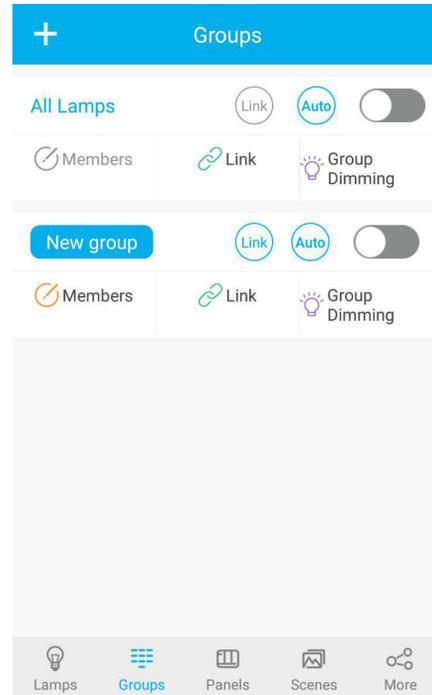
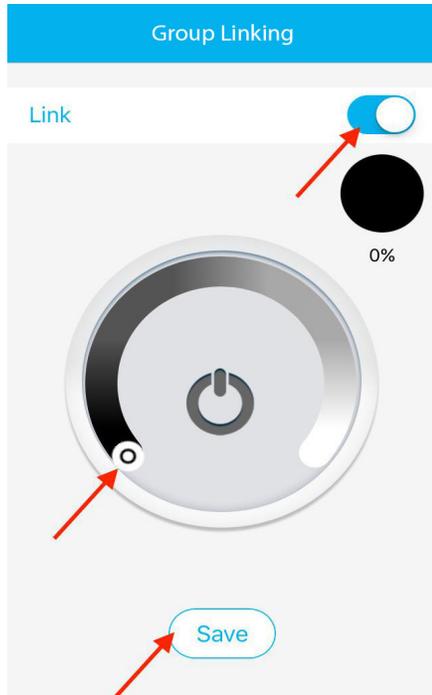
Press the «+» button on the upper-left corner to add a new group. Name the group and choose «Save» for option.



In the group, choose the fixture to be grouped and save by pressing «Done». After group setting, slide the «Link» and the brightness setting will follow.



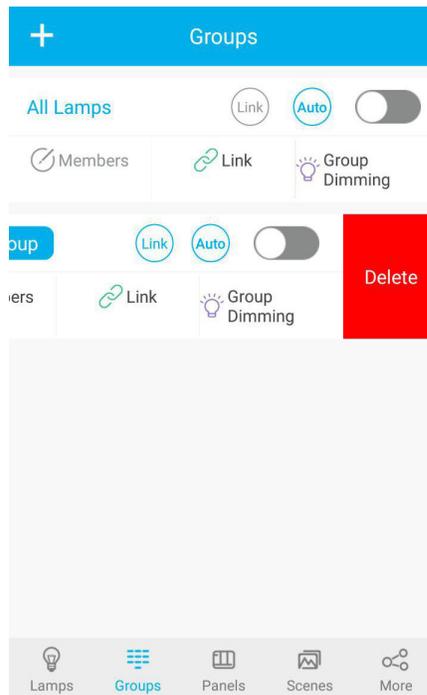
Slide the circle icon on the arc bar to adjust the fixture's brightness and save it. Return to «Groups» page. Subsequent new groups can be created following the same step and fixtures will be shown in the group list.



### 3.3.2 Delete Group

**Step 1:** Hold on and slide the group to the left.

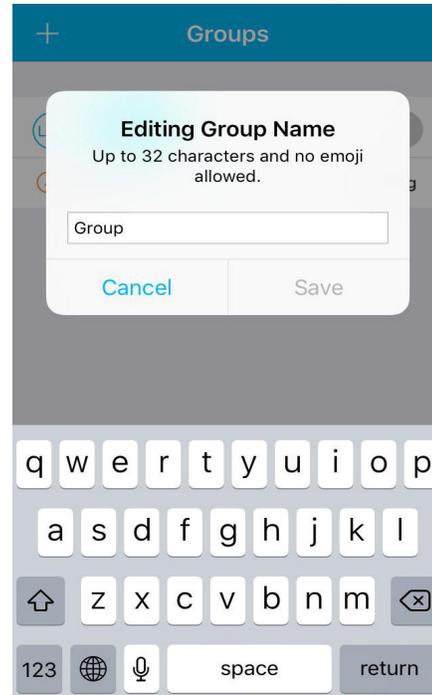
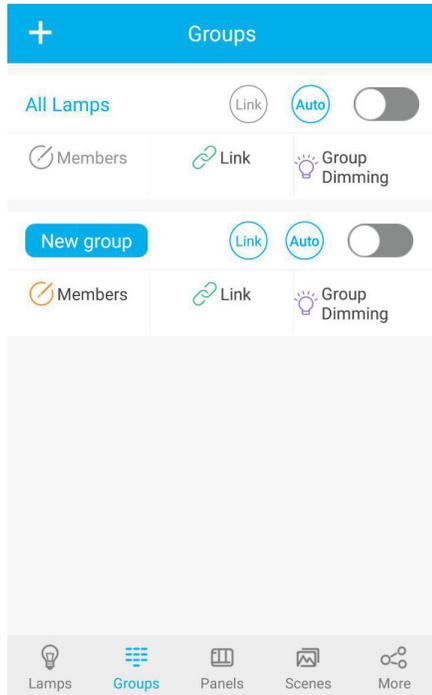
**Step 2:** Press «Delete» to delete the group.



### 3.3.3 Rename Group

**Step 1:** Press the original name «Group» as shown to rename.

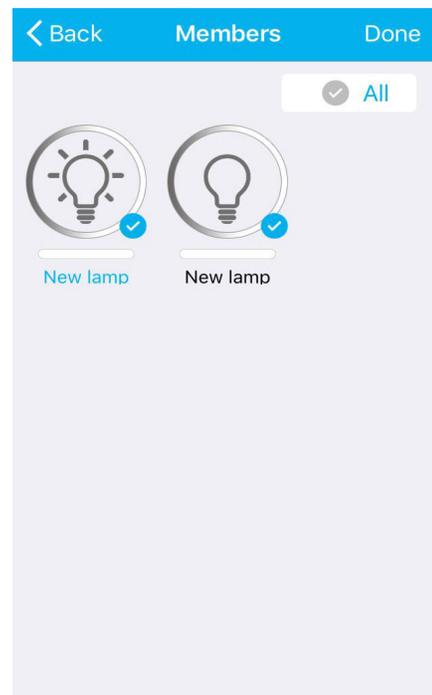
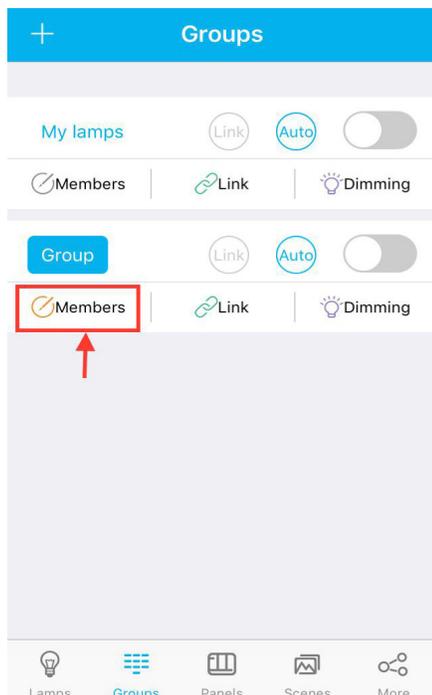
**Step 2:** Input a new group name and press «Save» to save the new name.



### 3.3.4 Group Management

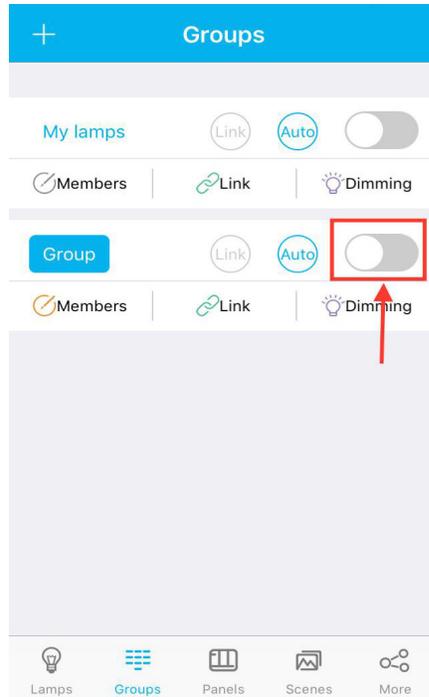
**Step 1:** Press the «Members» icon to check all the fixtures in this group. The blue check «✓» indicates that a fixture is in the group.

**Step 2:** Check the fixture to change the group's fixtures members. The change is executed only by selecting «Done».

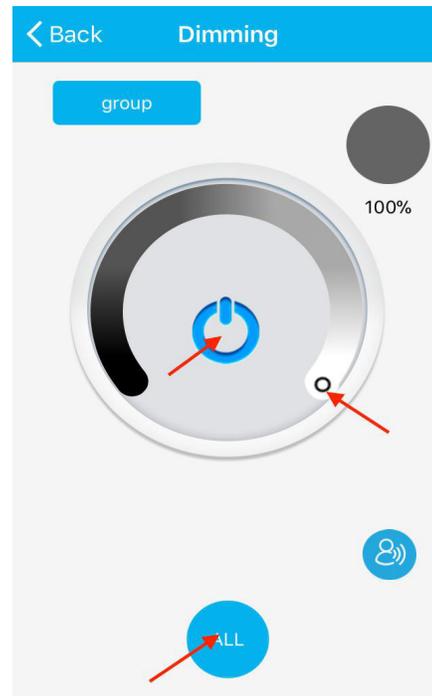
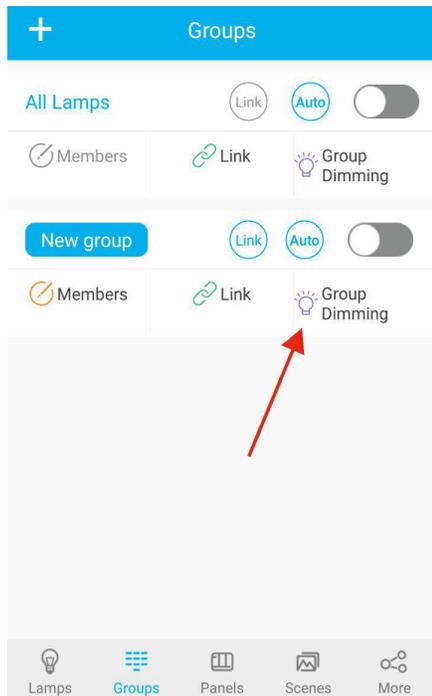


### 3.3.5 Group Dimming

**Quick Switch:** Press the on/off button on the right of the group to quickly dim the group.



**Group Dimming:** Press the "Dimming" icon to set this group's fixtures brightness. The middle button is to turn on or off all fixtures in selected group.

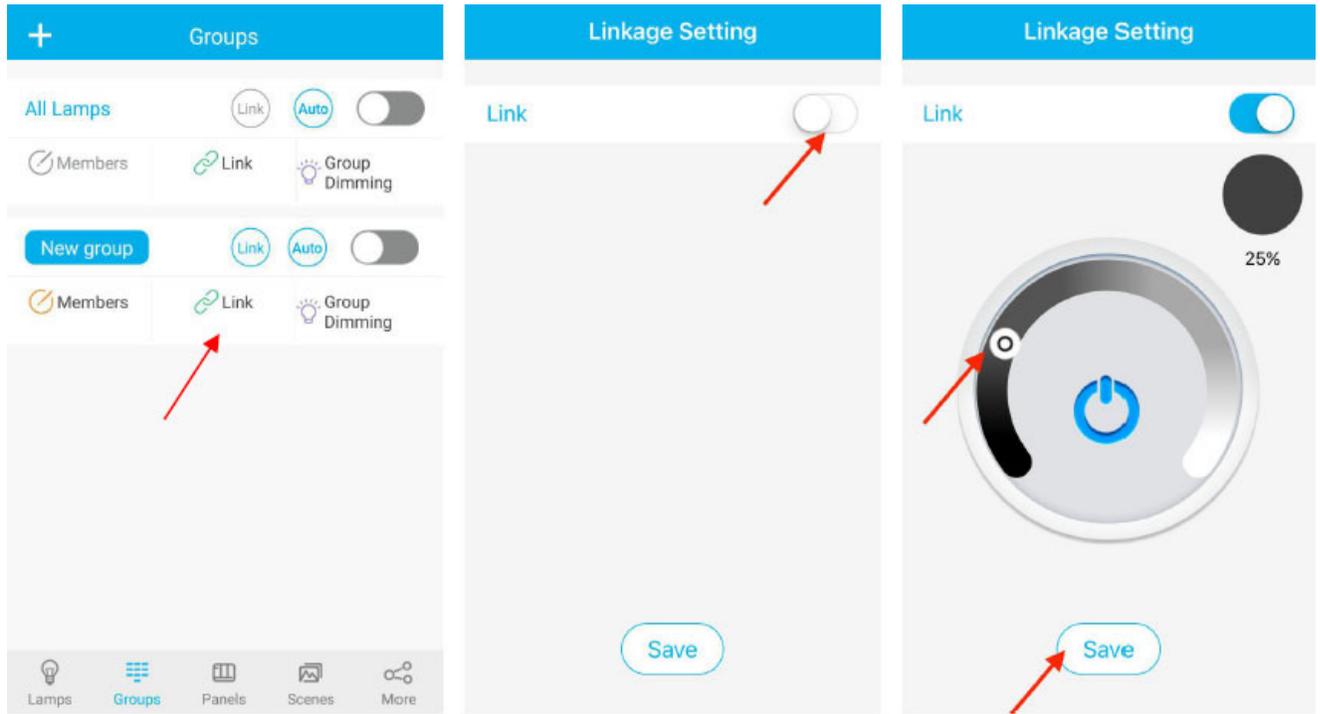


### 3.3.6 Group Linking

**Group Linking:** if one fixture is activated by sensor and is on, and then all the other fixtures in this group will be on.

**Step 1:** Press the “Link” icon and open it.

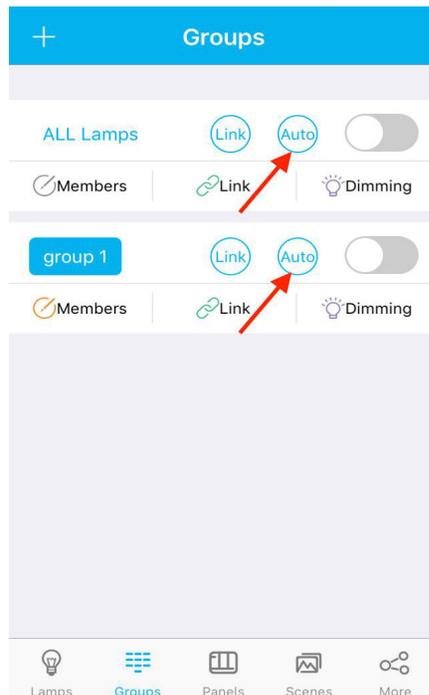
**Step 2:** Hold on and slide the circle icon to adjust the brightness and save it.



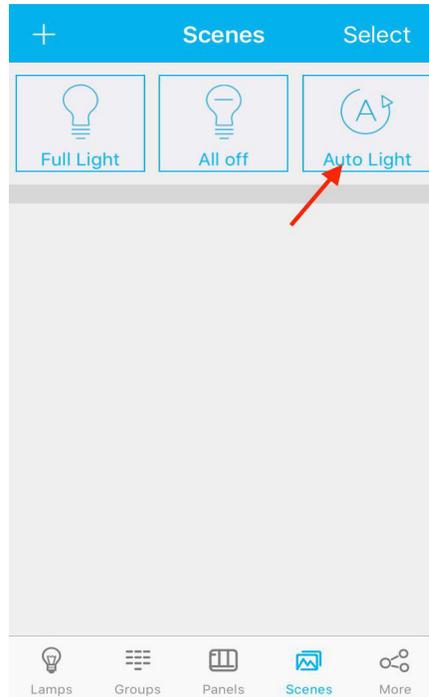
### 3.3.7 Auto Daylight Harvesting

**Auto Daylight Harvesting:** the light will automatically dim according to the surrounding ambient light levels. This function is on the default set. If the user operates the «Scene» function, this function will be closed.

**Group Auto Daylight Harvesting Dim Up and Down All the Fixtures or Group Fixtures:** Switch to the «Groups» interface and press «Auto». The fixture will flash when this function has opened successfully.



**Scene Auto Daylight Harvesting to Dim Up and Down All the Fixtures:** Switch to the «Scene» interface and press «Auto Light». The fixture will flash when this function has opened successfully.



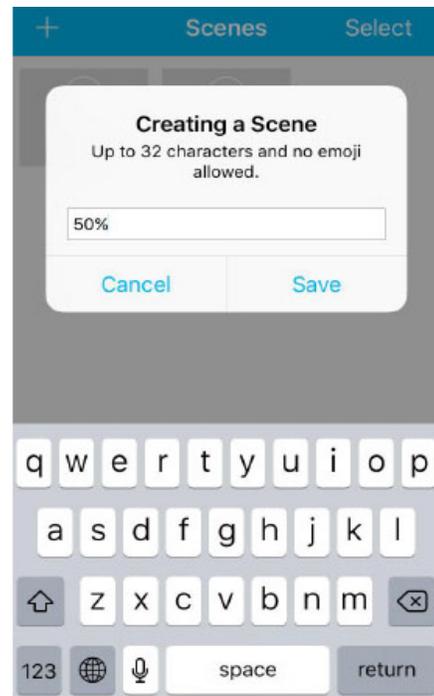
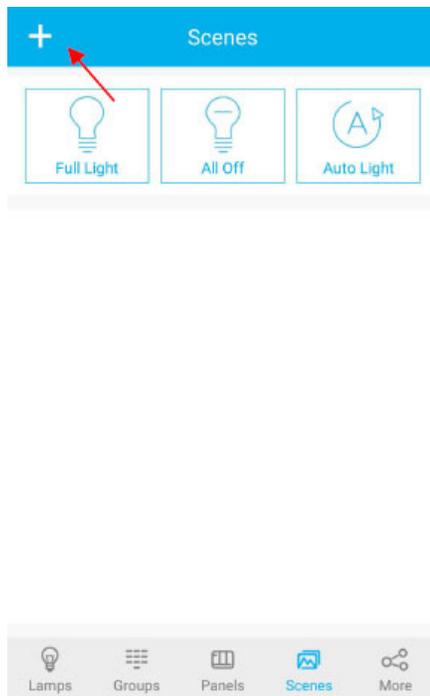
### 3.4 «Scenes» Function

«Full Light», «All Off», and «Auto Light» are three default scenes that cannot be modified. All of the following operations are performed in the «Scenes» function page.

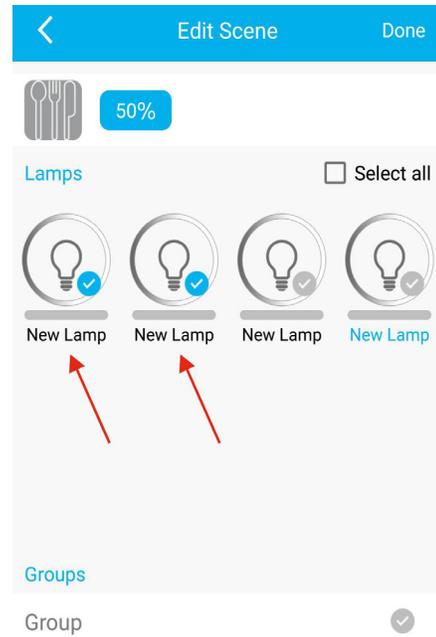
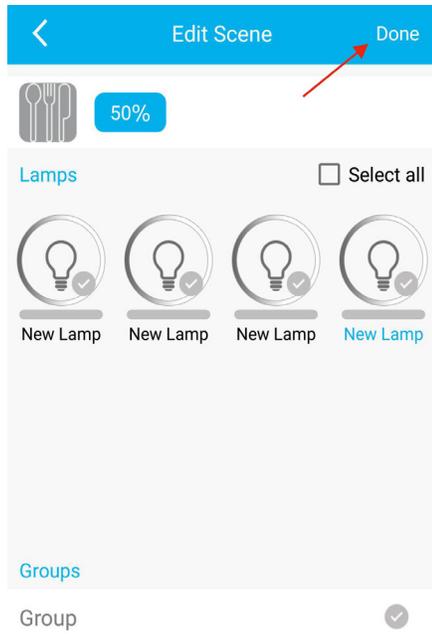
#### 3.4.1 Add Scene

**Step 1:** Press the «+» button on the upper-left corner to add a new scene.

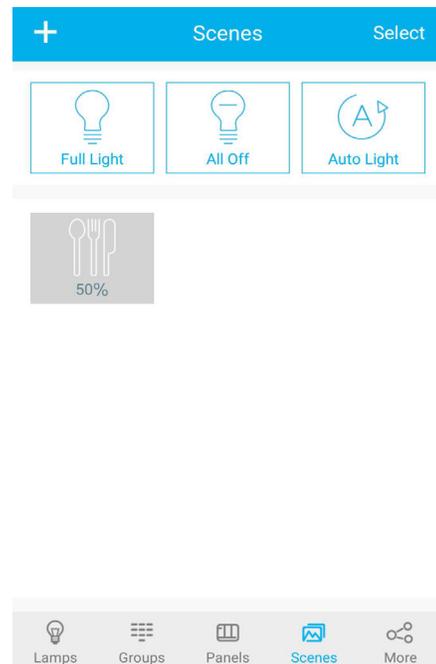
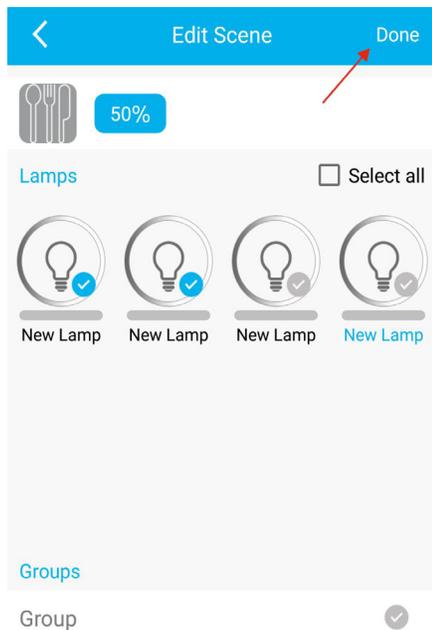
**Step 2:** Input the scene's name and save it.



**Step 3:** Press the upper-left icon «Lamps» and choose an appropriate figure to be recognized. Select or cancel fixtures in this scene.

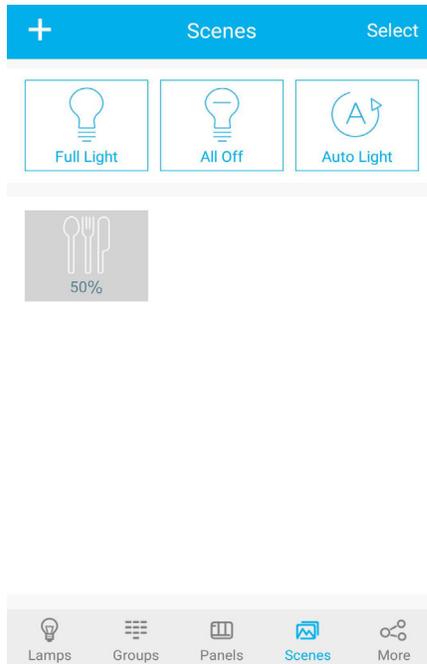


**Step 4:** Press «Done» after selection. The fixture will flash three times when the scene was set successfully. The app will return to «Scenes» page.



### 3.4.2 Change Scene

Press and hold scene icon for more than 2 seconds to change the scene's name and figure, as shown in the Section 3.4.1.

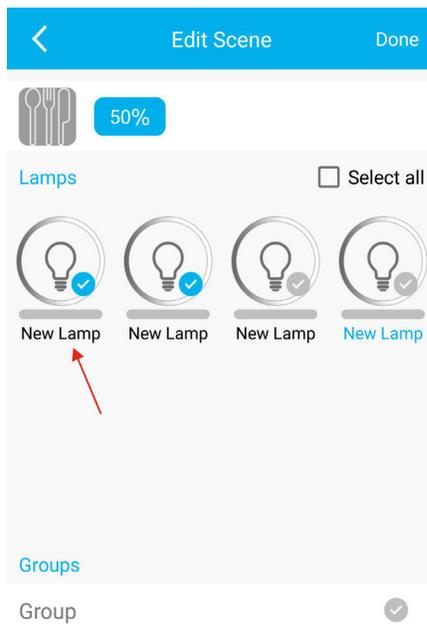


### 3.4.3 Scene Dimming

Independent fixture or group fixture' dimming can be achieved in scene setting. Select the desired scene for more than 2 seconds to enter the scene setting interface.

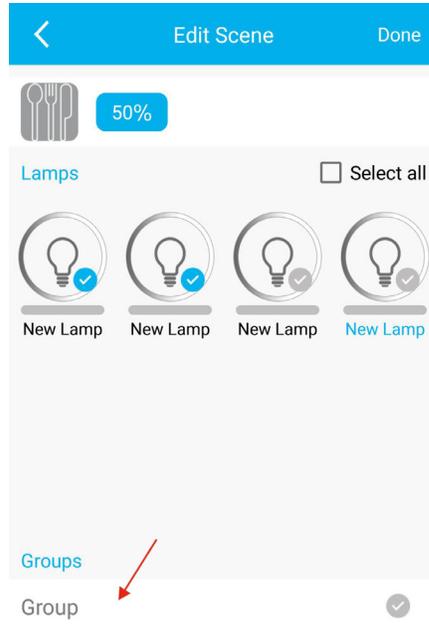
#### 3.4.3.1 Independent Fixture's Dimming

Press and hold desired fixture icon for more than 2 seconds and adjust the brightness, as shown in Section 3.2.4.2.



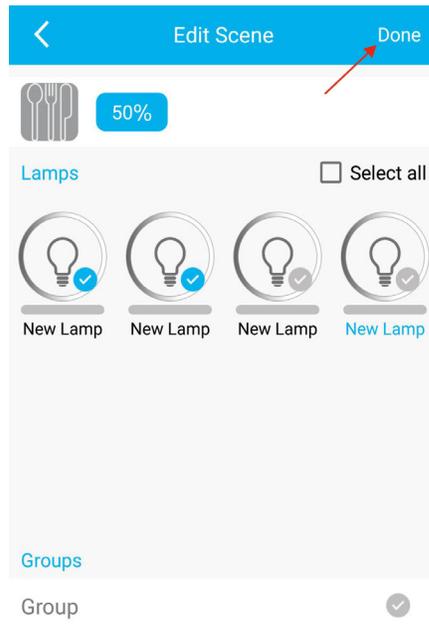
### 3.4.3.2 Group of Fixtures Dimming

Press and hold «Group» for more than 2 seconds and adjust the brightness, as shown in Section 3.3.4.



### 3.4.3.3 Saving Dimming

After setting the independent and group dimming, press «Done» to save the operation. The fixtures will flash 3 times when the scene dimming was set successfully.

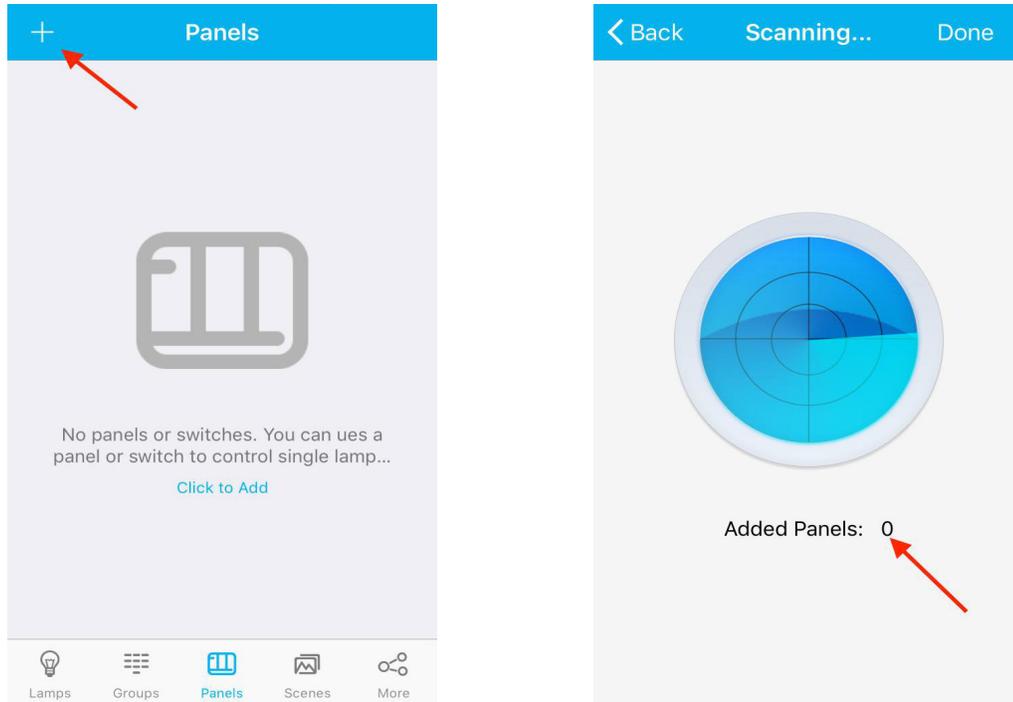


### 3.5 «Wireless Wall Control/Switch» Function

All of the following operations are performed in the «Panels» function page. The switch is not supplied. If needed, please contact our sales team.

#### 3.5.1 Add a wall switch

Press the «+» button on the upper-left corner to search new devices such as panel switch.



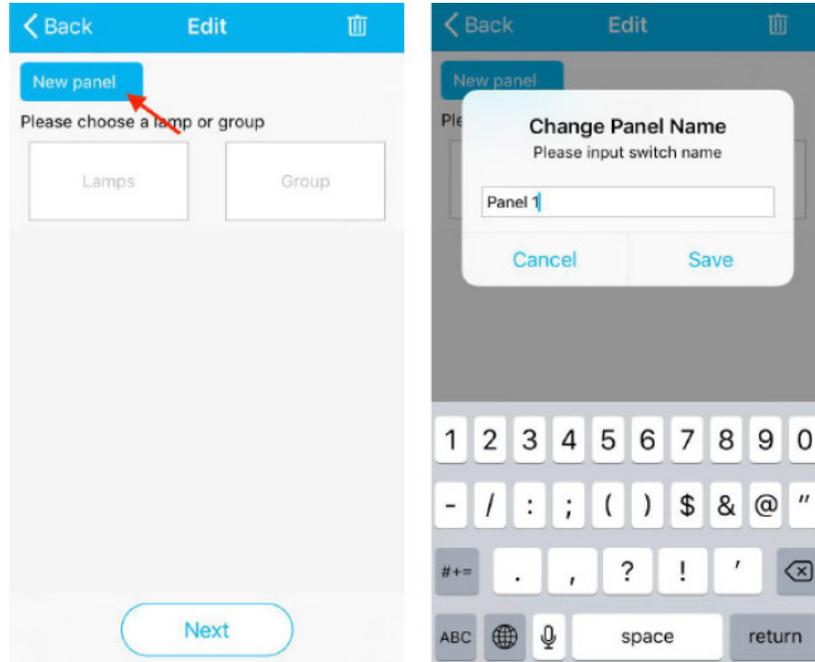
To add switches to the system, all should comply with the following order to press or touch the key. The frequency is press or touch once per 1 second. Press any key to exit from the searching mode within 30 seconds.



Solar Smart Dimming Switches: press button 1 and 3 together over 2 seconds.

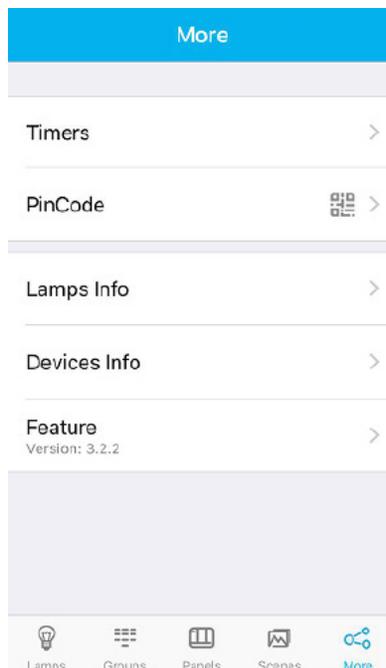
### 3.5.2 Rename switch

Choose the switch and press the icon as shown below. Rename the switch and save it.



### 3.5.3 Function Setting

«More» Function includes Timer, Pin Code, Lamps Info, Devices Info, and Feature.

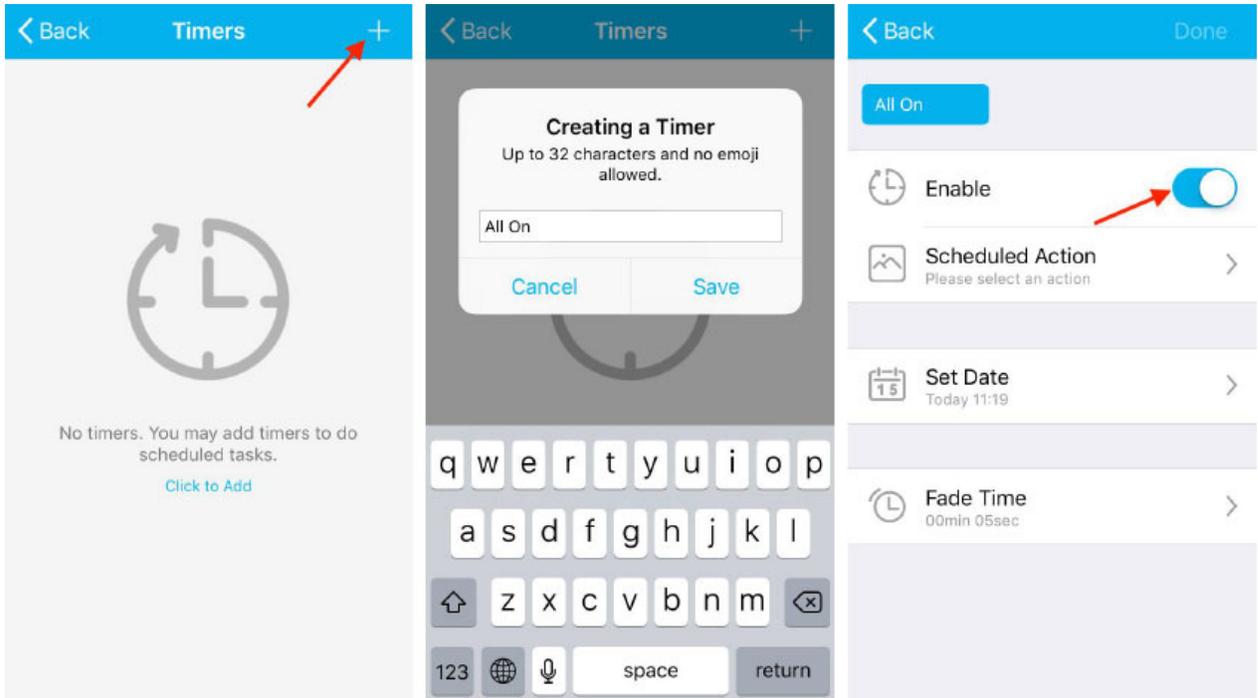


### 3.6.1 Timer

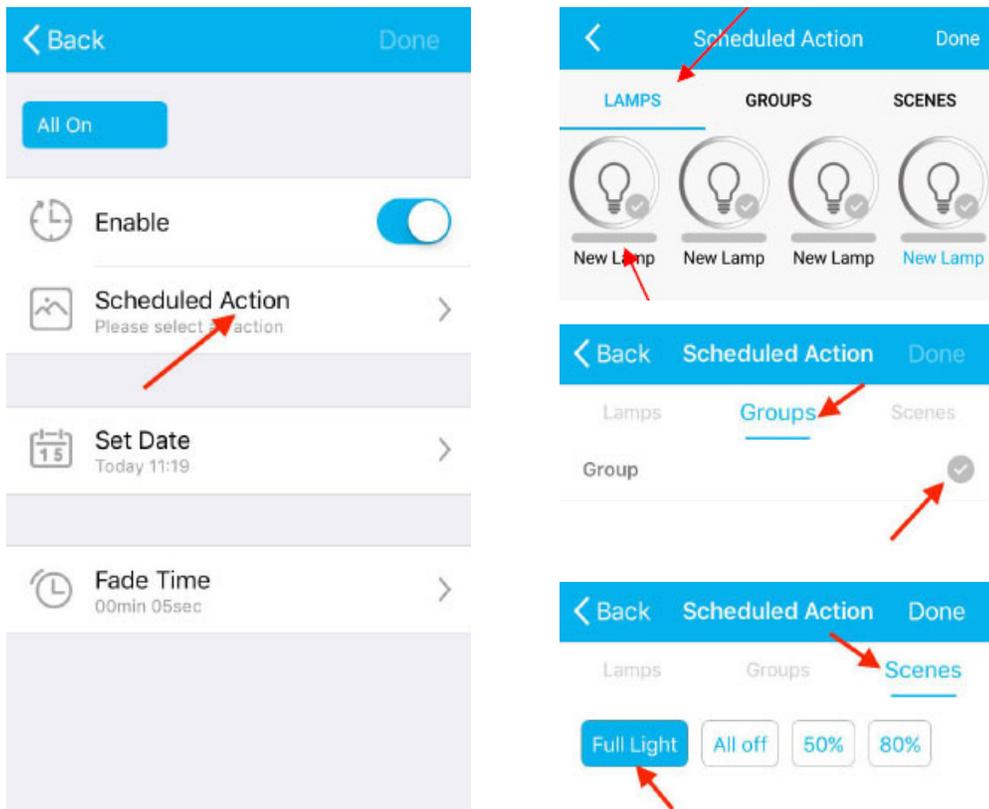
Set a timer to operate the independent fixture, group, or scene at a specified time.

#### 3.6.1.1 Create Timer

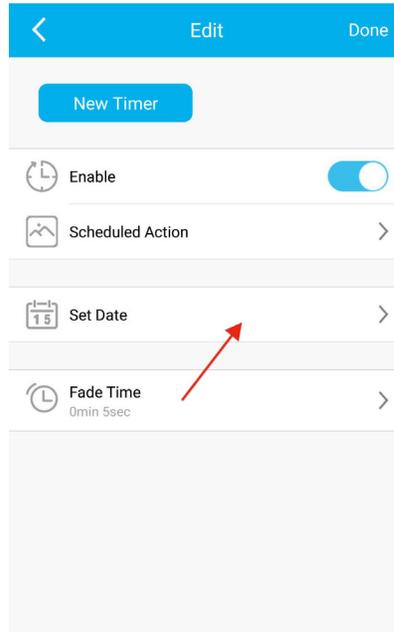
**Step 1:** Press the «+» button on the upper right corner in «Timer» interface to create a timer. Name the timer and press «Save» to save it. The status of the timer is set «On» or «Off». The default status is «On».



**Step 2:** Press «Scheduled Action» to set an action for the timer. When the specified time comes, the action is activated. In the «Scheduled Action» interface, choose the «Lamps», «Groups», or «Scenes». Press «Done» to save it.



**Step 3:** Press «Set Date» to set the time.

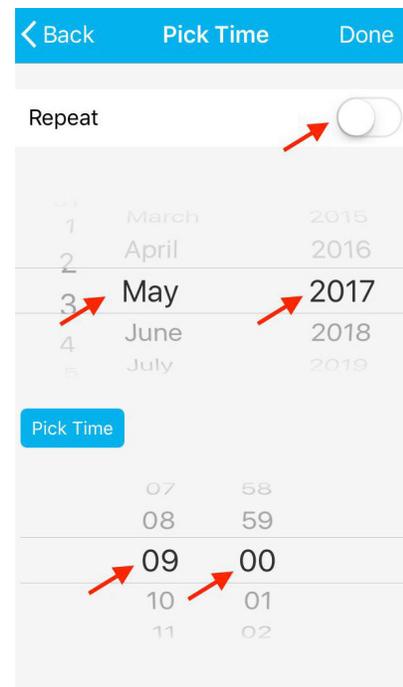
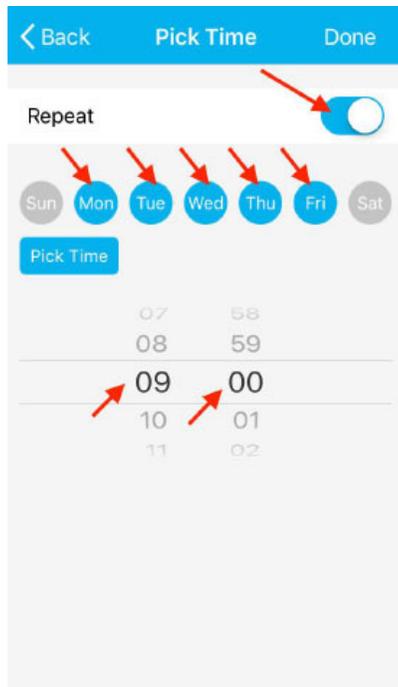


**Two modes for the timers:**

**Repeat Mode:** Schedule repeat days and specified time. For example, the following timer is set to carry on the action at 9 o'clock from Monday to Friday.

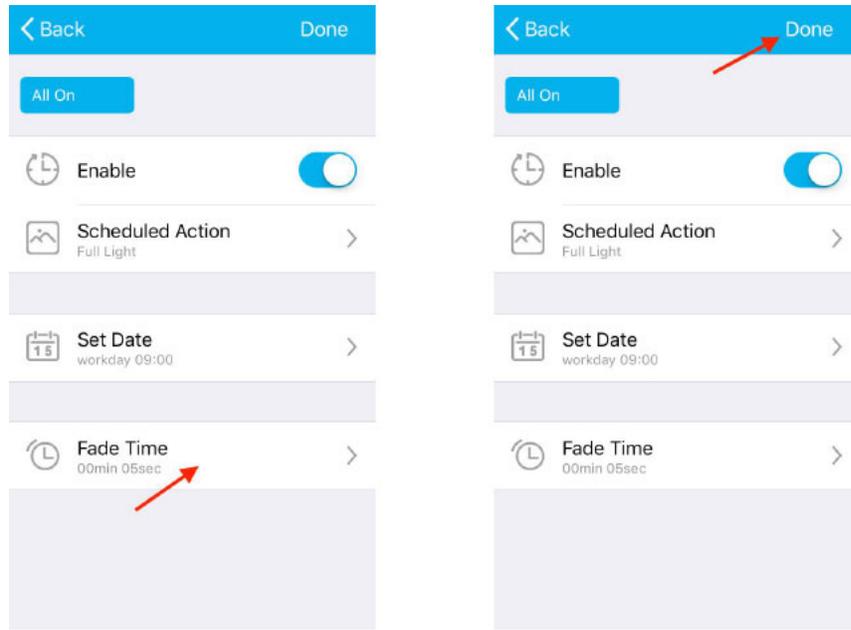
**One-Time Mode:** Schedule the specified date and time. For example, the following timer is set to carry on the action at 9 o'clock on May 3rd, 2017.

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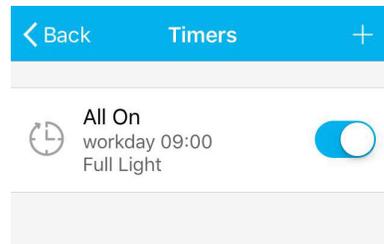


**Step 4:** After setting the time, press «Done» to save it.

**Step 5:** Press «Fade Time» to set a fading period for the timer. The default fading period is 5 seconds. Set the timer and press «Done» to save it. The fixtures will flash 3 times when timer is set successfully.

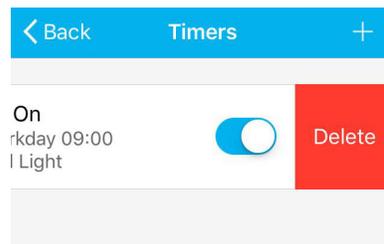


After setting, the screen will open to the «Timer» interface.



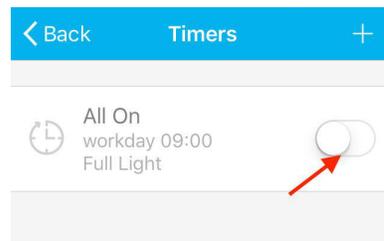
### 3.6.1.2 Delete Timer

Slide to the left and press «Delete».



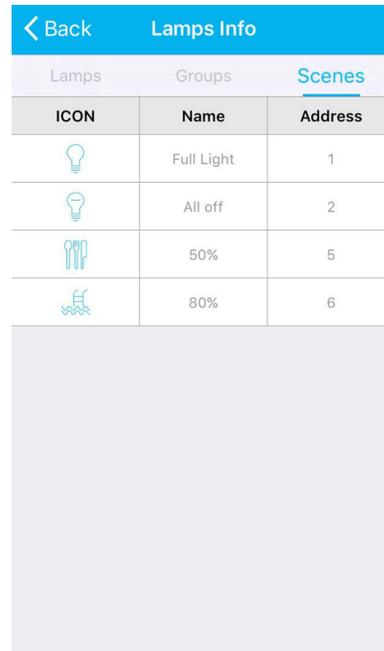
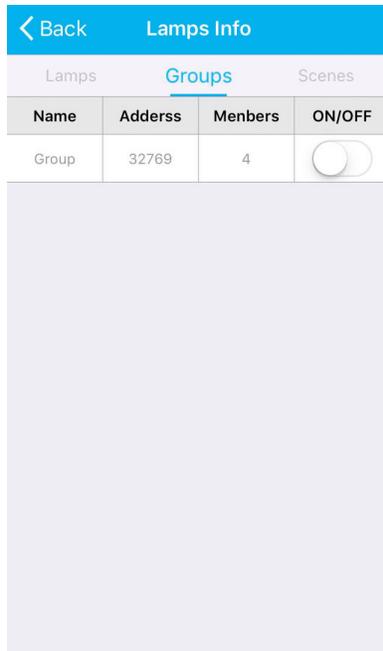
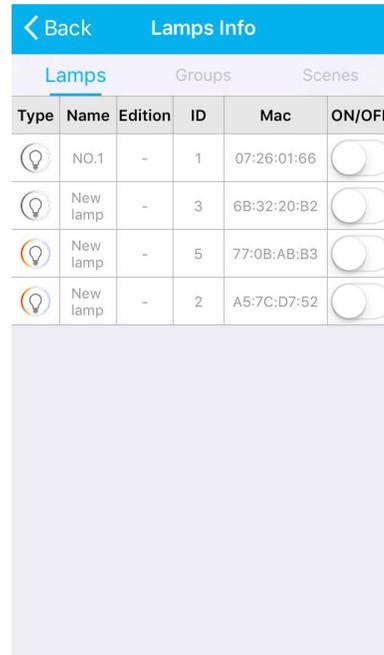
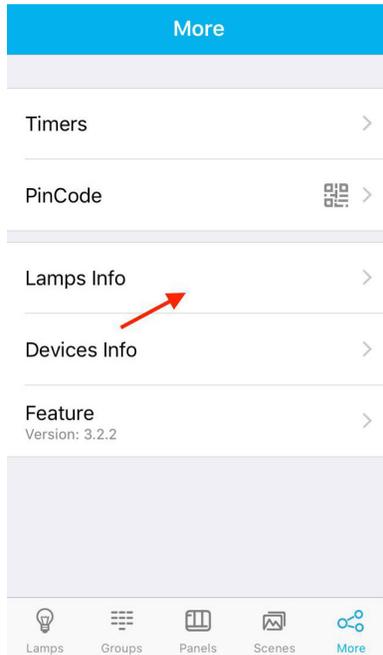
### 3.6.1.3 Timer On/Off

Press the On/Off icon, as shown, to turn timer «On» and «Off».



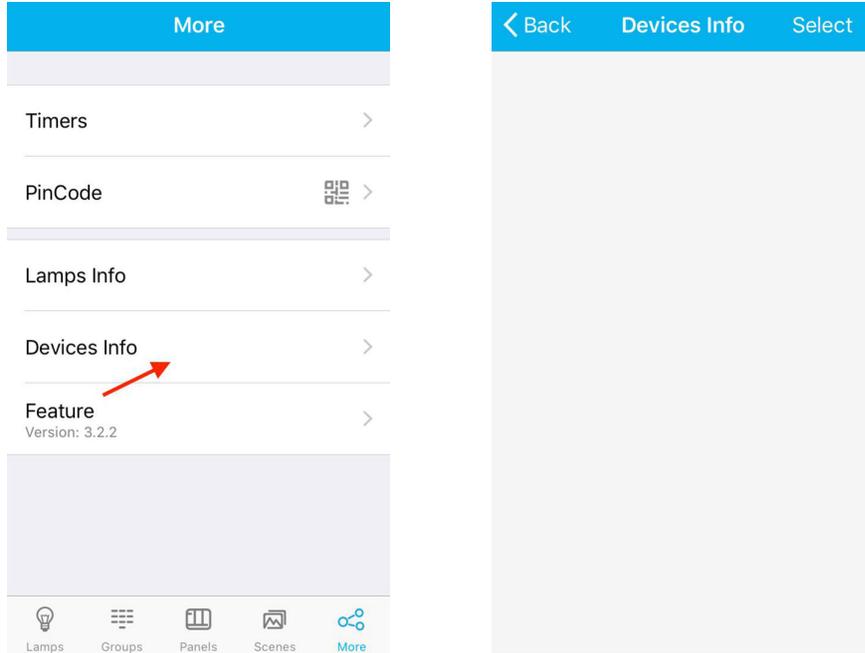
### 3.6.2 Lamp Info

Press «Lamps Info» to check information about the fixtures, including name, address, groups, and scenes.



### 3.6.3 Devices Info

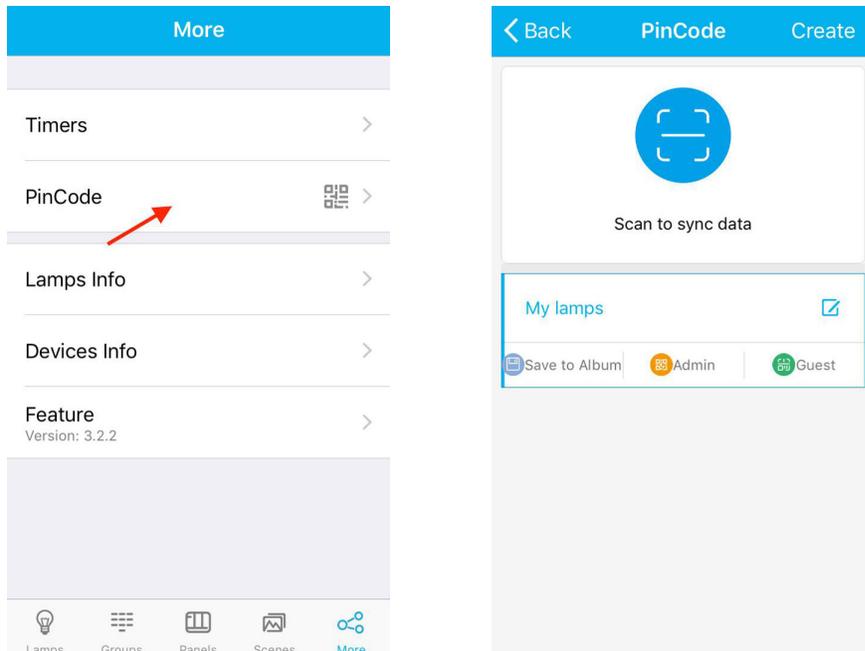
Press «Devices Info» to check information about the sensor, convertor, and more.



### 3.6.4 PIN Code

PIN code and relative QR code will be created after the installation of Light Remote LED App. The default name is «My lamps». By sharing the QR code, other smart devices can control and operate the fixtures assigned to this system.

In a new project, it is suggested to own the QR code privately.

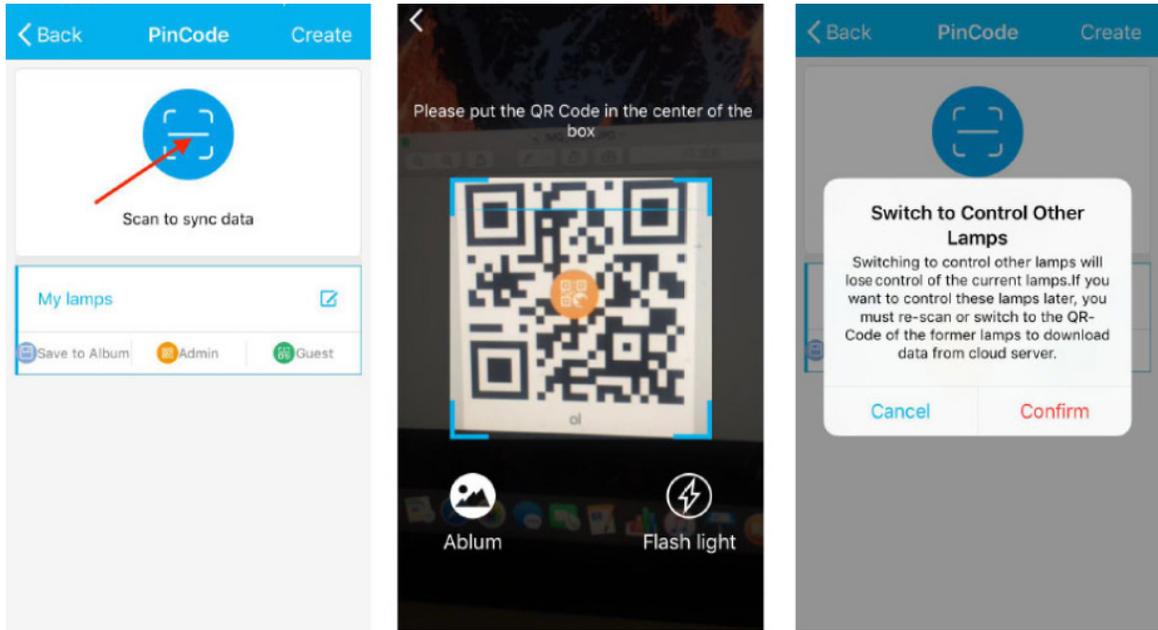


**Scan QR code:** Get access to the edited light system by scanning the QR code.

**Step 1:** Press the middle blue circle and the QR code will appear.

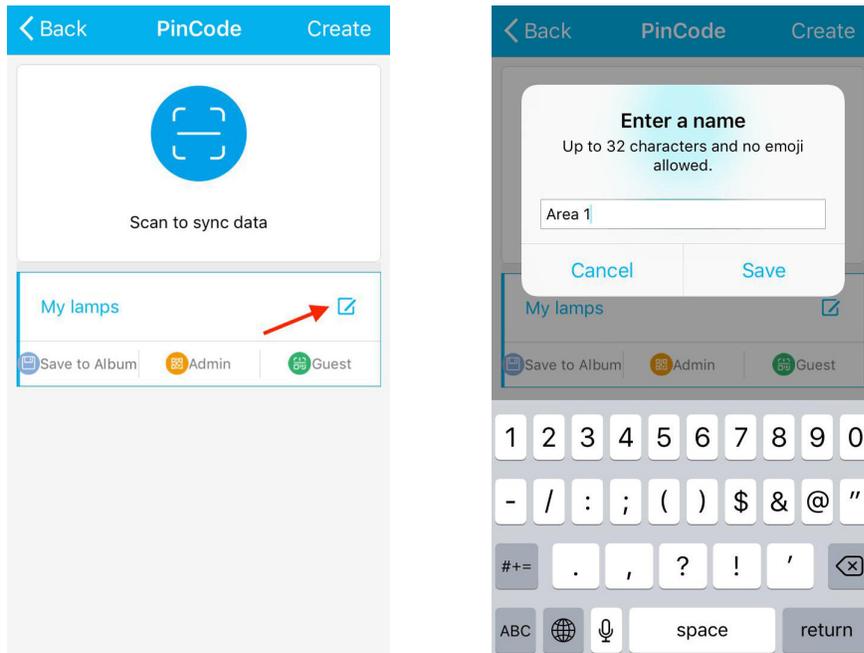
**Step 2:** Start to scan.

**Step 3:** Press «Confirm» for successful scanning. It will come to «Lamp» interface.

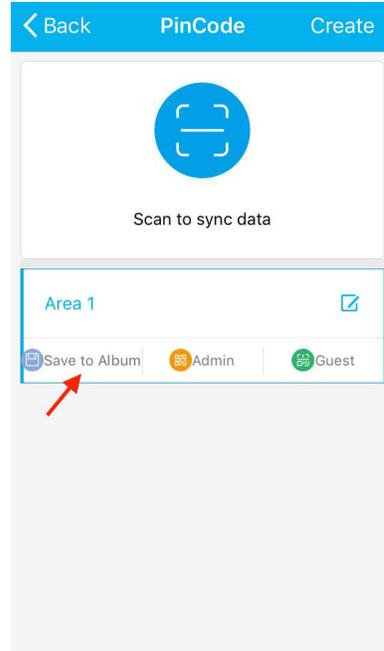


**Manage QR code:** Name the QR code for the different project system. Save the QR code to album and share to other devices.

**Rename QR code:** Press the edit icon on the upper right corner as shown to rename the QR code and save it.



**Save QR code to Album:** In case of reinstalling App or changing your smartphone, save the QR code to album. Use this code to search the system again in future. Press the «Save to Album» option to save the QR code.



Two QR code pictures are listed in the album: one for high-privilege and one for low-privilege.



Area 1

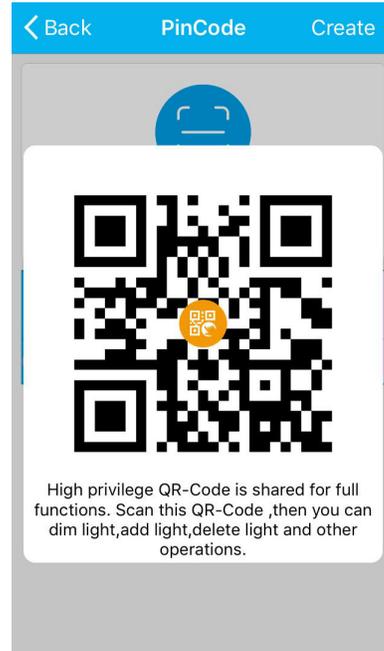
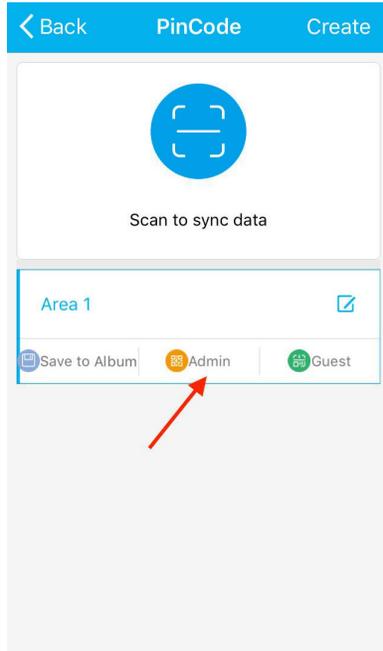


Area 1

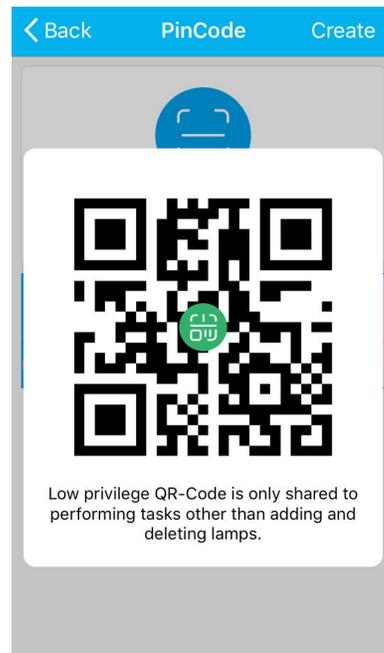
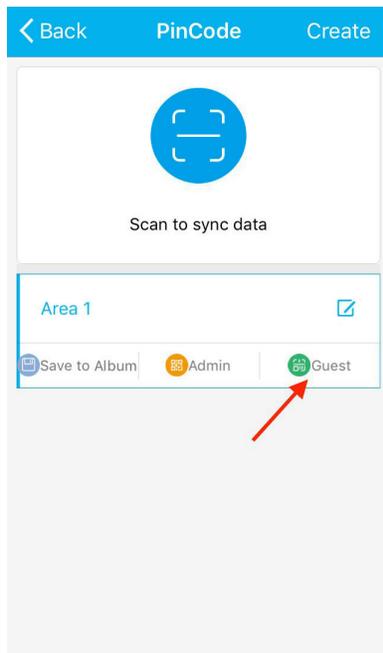
**Share QR code**

Two QR code sharing: high-privilege or low-privilege. High-privilege allows other devices to have the same control over the original device. Low-privilege allows other devices to *only* adjust fixture brightness - cannot add, delete, or edit fixtures.

Press the «Admin» icon to share the high-privilege QR code.



Press the «Guest» icon to share the low-privilege QR code.



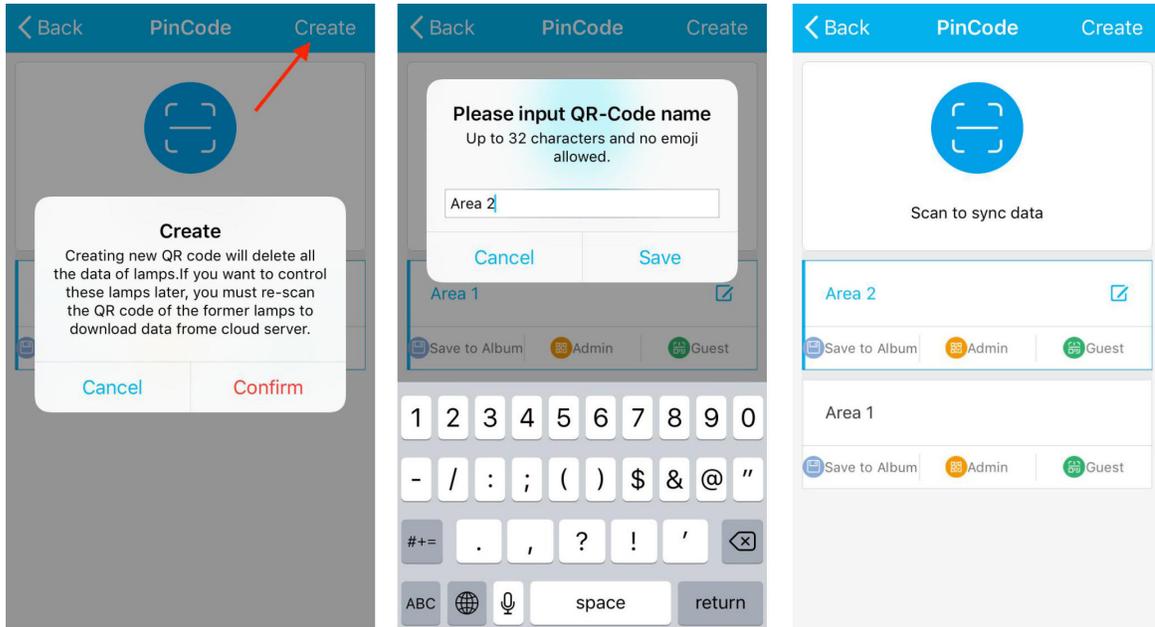
### Create New QR Code

In a new project, it is suggested to own the QR code privately rather than sharing the QR code.

**Step 1:** Press the «Create» button on the upper-right corner to create a new QR code.

**Step 2:** Press «Confirm» to create.

**Step 3:** Name the new QR code and press «Save». The original QR code is also shown in the list to switch between projects.



## 4. Factory Reset

**Factory Reset:** Fixture data is cleared after factory reset.

**Applications:** When the fixture cannot be found, reset the fixture. Add the fixture again until successful.

### 4.1 Delete Fixtures by App

When fixtures are online, delete the fixture through App. The deleted fixtures can be factory reset.

### 4.2 Cut Off Power Supply

Turn «On» or «Off» the fixture five times, the fixture can be factory reset. Steps are the following:

- 1) Turn the fixture «On». Wait for 3 seconds. Turn the fixture «Off». Wait for 5 seconds;
- 2) Turn the fixture «On». Wait for 3 seconds. Turn the fixture «Off». Wait for 5 seconds;
- 3) Turn the fixture «On». Wait for 3 seconds. Turn the fixture «Off». Wait for 5 seconds;
- 4) Turn the fixture «On». Wait for over 3 seconds. Turn the fixture «Off». Wait for 5 seconds;
- 5) Turn the fixture «On». Wait for over 3 seconds. Turn the fixture «Off». Wait for 5 seconds;
- 6) The fixture will flash when the factory reset successfully. The lamp that has been successfully reset will be reset to factory settings and the data on the fixture will be cleared.

## 5. FAQ

### 5.1 Questions Relating to LED Fixtures and Switches

**Question 1: Fixtures failed to be found.**

Answer: Make sure that the fixture is powered on and the Bluetooth is turned «On» on your smartphone. Search again. If it fails again, please restart app (completely exit App and then restart). Turn the fixture «Off» and «On» again. Search again.

If it fails again, please reset fixtures manually. Search again.

**Question 2: Adding fixtures fails. For example, adding 10 fixtures but only 8 fixtures were added successfully.**

Answer: Adding fixtures is complicated and may fail on some occasions. Please try again.

**Question 3: Deleting fixtures fails. The deleted fixture is still in the system and the app can still control it. The fixture name is «New Lamp».**

Answer: Deleting fixtures is complicated and may fail on some occasions. Please try again.

**Question 4: Some added fixtures can't be controlled by the app. The number of the displayed fixtures in the app agrees with the actual number of the fixtures.**

Answer: Some fixtures fail to be added. Please add the fixtures again and find the uncontrolled fixtures. Add these fixtures again.

**Question 5: After adding fixtures, the number of the displayed fixtures in the app is fewer than the actual number of the fixtures.**

Answer: Press the "Full Light" and "All Off" button to check whether all fixtures in control or not. If the number of the controlled fixtures is the same as the displayed number of the fixtures, that means, some fixtures may not be added. Please refer to the answer provided to Question 4.

If the number of the controlled fixtures is more than the displayed number of the fixtures, some problems may be in the fixture's address resolution. Please refer to the answer provided to Question 6.

**Question 6: The fixture's address repeat. The number of the displayed fixtures is fewer than the actual number and all the fixtures can be controlled by the app actually.**

Answer: Find the fixtures of repeated address in «Lamps» list and delete the repeated fixtures. If the app fails to delete, reset the fixtures manually and add the deleted fixtures.

**Question 7: Switch fails to be searched and added.**

Answer: Make sure to follow the order of pressing or touching the key. Switches must be searched within 30 seconds by app.

**Question 8: Many smartphones control one fixture or group, but some fail.**

Answer: Each smartphone can only connect to one Bluetooth and control the fixtures through that Bluetooth. When the number of the phones is more than fixtures, extra phones can not connect to the Bluetooth unless other phones exit from this Bluetooth.

### 5.2 Questions Relating to Data

**Question 9: After scanning the QR code, smartphone can control the fixtures but all the fixtures' names will be «New Lamp». There are no groups or scenes.**

Answer: The data should be shared through the network after scanning the QR code. Make sure the network is unobstructed to share the data. If the network is unavailable at the moment, data will fail to share. When network is available later, restart the app to share the data. If it fails again, please reset fixtures manually and search again.

**Question 10: Data in many phones are not synchronized.**

Answer: An unobstructed network is required to synchronize the data.



### 5.3 More Questions

**Question 11: Some members in a group are out of control after adding.**

Answer: Please make sure the fixtures are powered on when adding to the group. The fixtures will flash when added successfully. If some fixtures are not flashing, the adding was not successful. Please try to add them again.

**Question 12: Some members in a scene are out of control after adding.**

Answer: Please make sure the fixtures are powered on when adding to the scene. The fixtures will flash when added successfully. If some fixtures are not flashing, the adding was not successful. Please try to add them again.

## 6. Schedule 1: System parameters

Fixture	Single-network supports the number of fixture for 100. If the number of fixtures is more than 100, it is recommended to sub-network management.
Group	Each fixture can belong to 32 groups at the same time. When the same fixture is added to the 33rd group, it will automatically exit from the first group. Up to 30,000 groups for per mesh network.
Scenes	Each fixture can be set up at the same time 32 scenes. When the same fixture set to the 33th scene, the first scene will be invalid. Up to 127 scenes for per mesh network.
Timers	Up to 32 timers for each mesh network.
Switch	Up to 10 switches for each mesh network.
Connection Distance	Theoretical connection: 328 ft or less; Recommended connection: 98 ft or less; If there is an obstacle: 32 ft or less.

