



RENO SMART NLC CONTROLS SYSTEM COMMISSIONING GUIDE



INTRODUCTION

The RENO Smart Networked Lighting Controls System (NLC) is a Bluetooth Low Energy (BLE) MESH solution that enables remote control and addressability of individual luminaires and control devices via the RENO Smart app, while grouping them into zones and enabling the programming of multiple control strategies throughout various areas of a location.

STEP 1

Install RENO Smart sensors onto compatible fixtures



Smart Sensor

LED Fixture

STEP 2

Download the RENO Smart app to prepare control for the devices and set all the necessary parameters



Available on iOS and Android

STEP 3 (Optional)

Install Smart Wall Switch for offices or individual room applications. Add a Smart Gateway for advanced features.

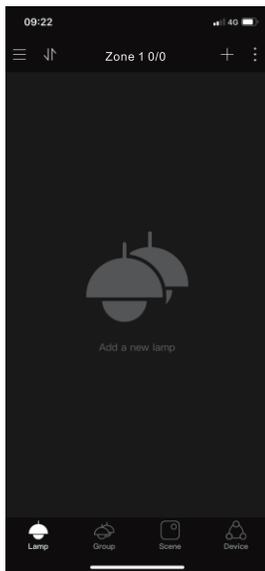


1.0 DOWNLOAD THE APP

1. On any tablet or mobile device, download the RENO Smart app.
2. Ensure the Bluetooth function on your mobile device is turned on.
3. On your mobile device, grant access to the RENO Smart app via Bluetooth permissions.
4. Ensure you have the Bluetooth Reset Remote (R75301) available for troubleshooting.
5. Now you're ready!



2.0 APP NAVIGATION



Lamp: shows all lights that are searched and added to the app.



Group: allows user to create and manage light groups.



Scene: allows user to create and manage scenes.



Device: allows user to search and add devices and accessories to the app.

3.0 UNDERSTANDING THE APP ICONS

LAMP ICONS

	
<p>Daylight sensor, photocell sensor, motion sensor, tunable white.</p>	<p>Daylight sensor, photocell sensor, motion sensor, fixed CCT.</p>
	
<p>Tunable white, without sensor.</p>	<p>Fixed CCT, without sensor</p>
	
<p>Daylight sensor, motion sensor, tunable white.</p>	<p>Daylight sensor, motion sensor, fixed CCT.</p>

DEVICE ICONS



Remote Control



WiFi Gateway



Switch



Master Sensor



Single light



Light group



Scenario



Fittings



Sort



Add a Device

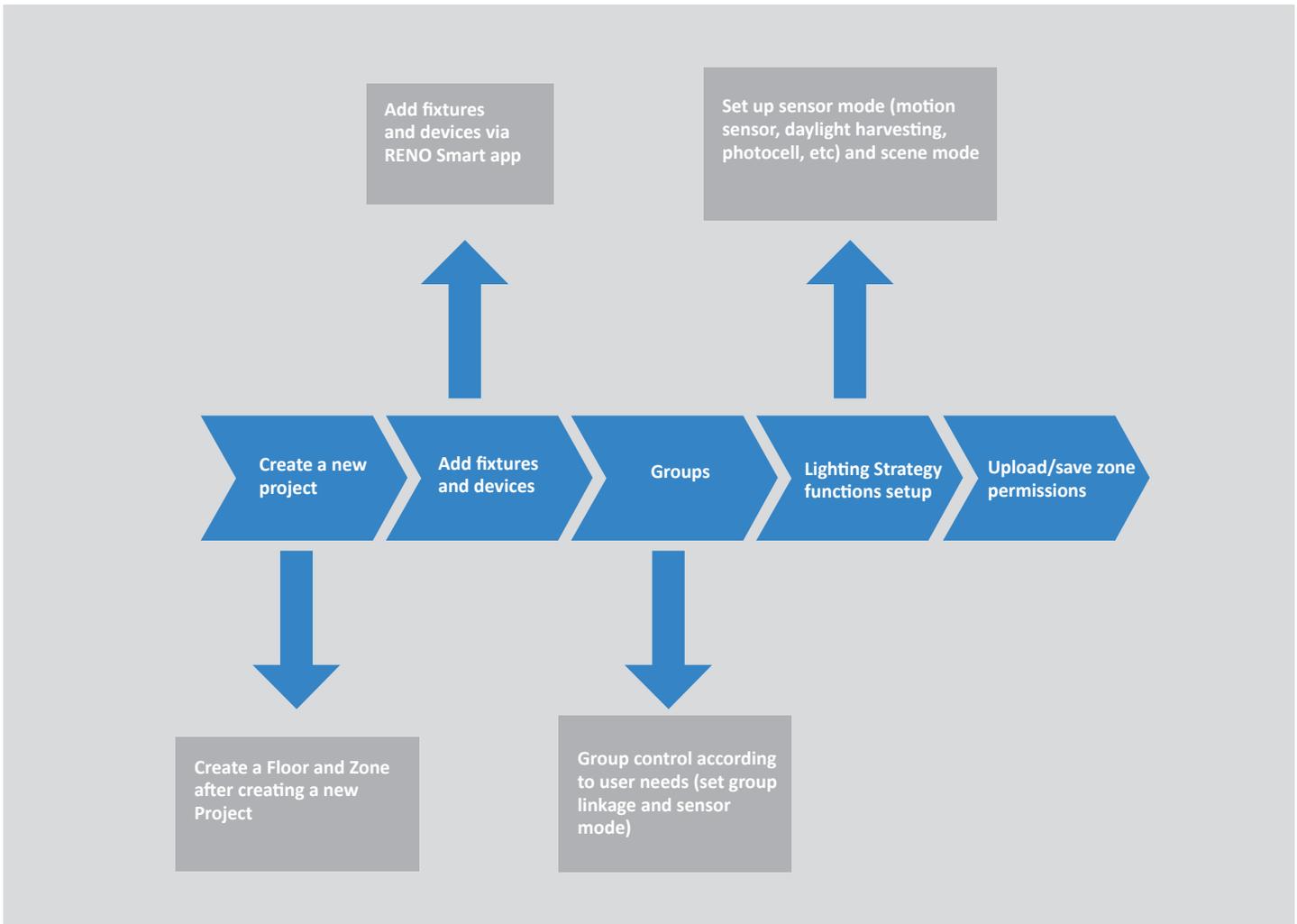


Features/Settings



Device type differentiation

4.0 COMMISSIONING WORKFLOW

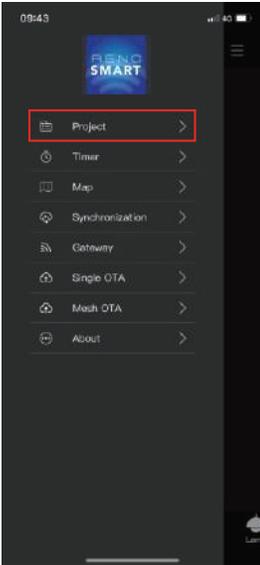


COMMISSIONING TIPS

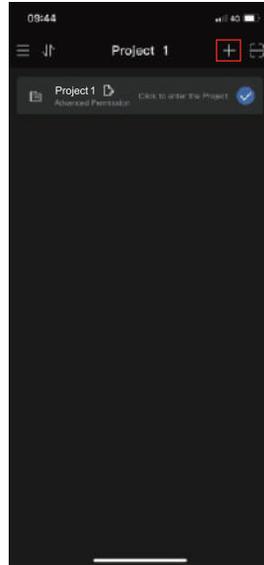
- Before commissioning, prepare a floor plan and design zones with specified settings in advance
- Preplan your design by group number, names, and scenes
- It is suggested that you divide your site into areas according to their lighting functions
- Always set light by name, quantity, parameter, and position (so that it is easily searchable in the App)
- For remote monitoring/control and online energy analysis, a Gateway (R75102) is required

NOTE: If your Project was commissioned using an iOS device, the QR code sharing will only work with other iOS devices. Likewise, if the Project was commissioned using an Android device, it can only be shared with other Android devices.

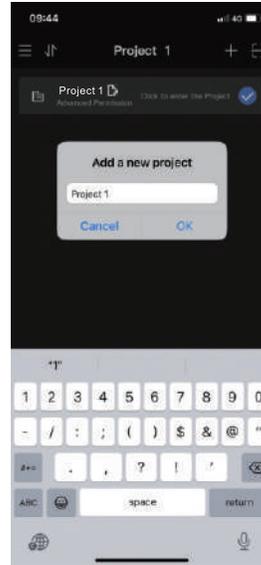
5.0 Add a Project



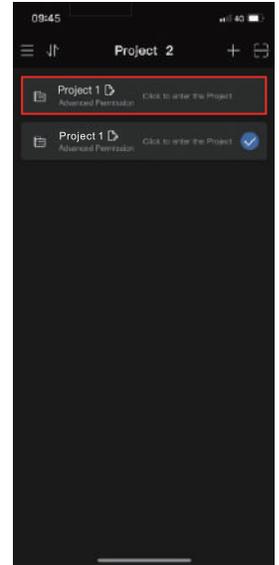
1. Click Project



2. Click + to add a new Project

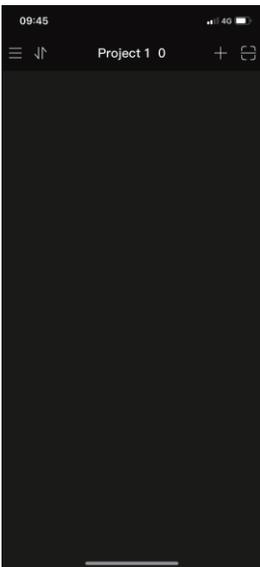


3. Enter the name for the Project and click OK

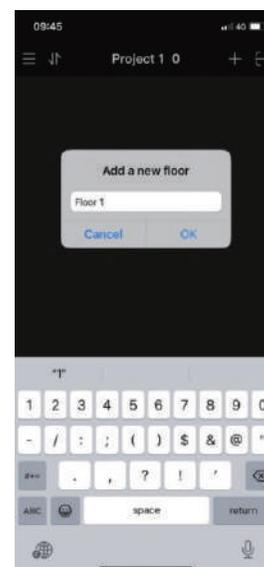


4. Check to see it has been added successfully

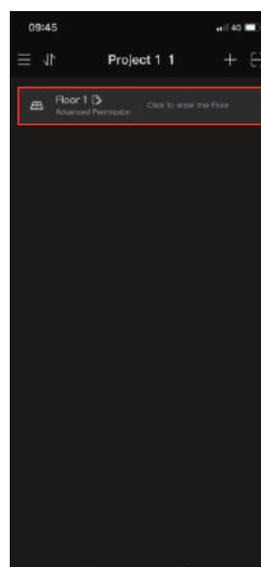
6.0 Add a Floor



1. Click + to add a new Floor

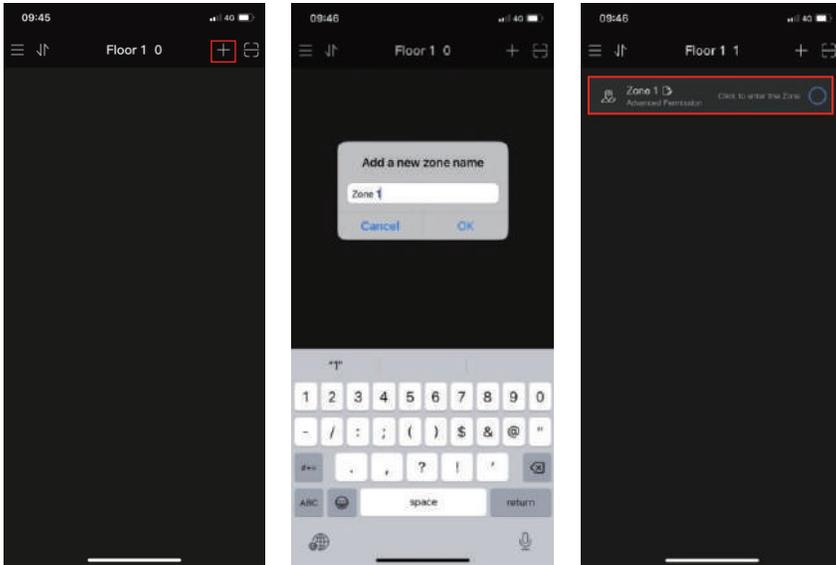


2. Enter the name for the Floor and click OK



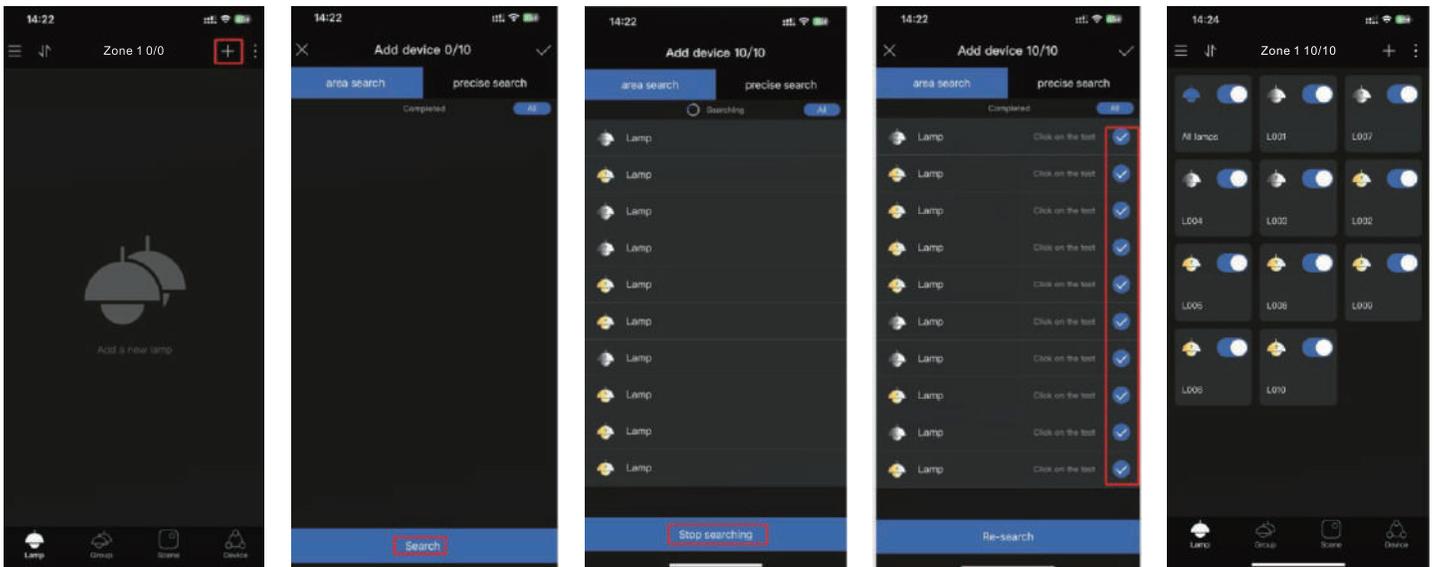
3. Check to see it has been added successfully

7.0 Add Zones



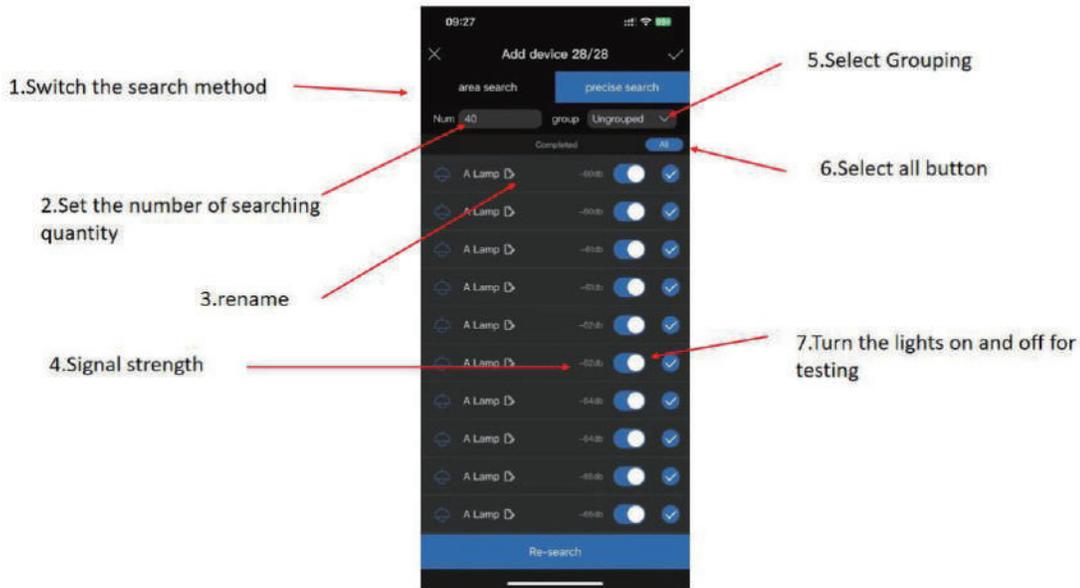
1. Click + to add a new Zone
2. Enter the name for the Zone
3. Check to see it has been added successfully

8.0 Add Fixtures (via Area Search)



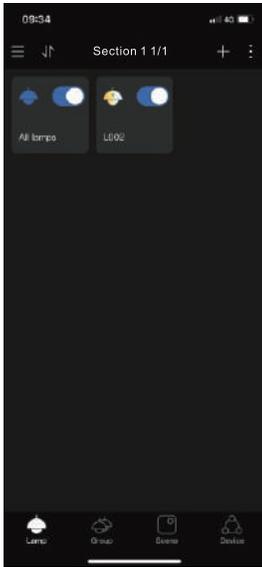
1. Click + on the top right corner in Lamps
2. Click Area Search
3. The system searches for lamps automatically
4. Select the lamps to be added and click the checkmark icon
5. The added fixtures will appear in the Zone

8.1 Precise Search

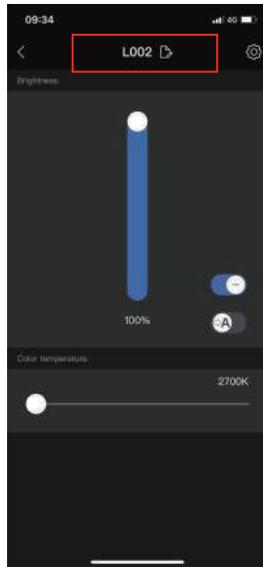


- Precise Search allows you to set the quantity of devices to search
- You can name the device before adding to the app, and it will be displayed with the new name after initiating the app
- The sorting method is sorted according to signal strength
- When it is time to add lights you can select the group in advance and add directly to the app Group
- Each fixture can be tested by clicking the ON/OFF icon

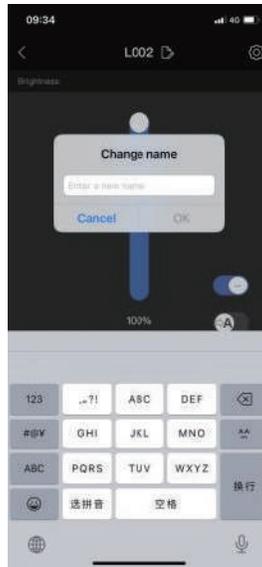
8.2 Set Fixture Names



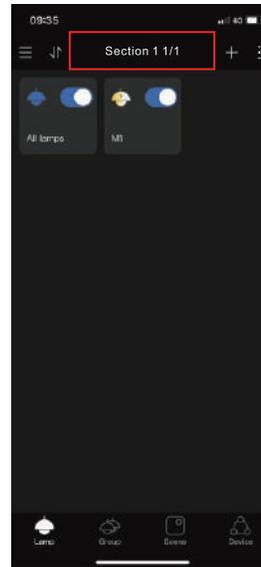
1. Click a fixture to enter its commissioning page



2. Click the edit icon to the right of the fixture

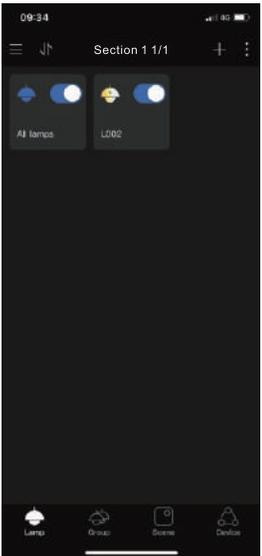


3. Input the fixture's name and click OK to save



4. You can see the updated fixture name on the main page

8.3 Fixture Dimming



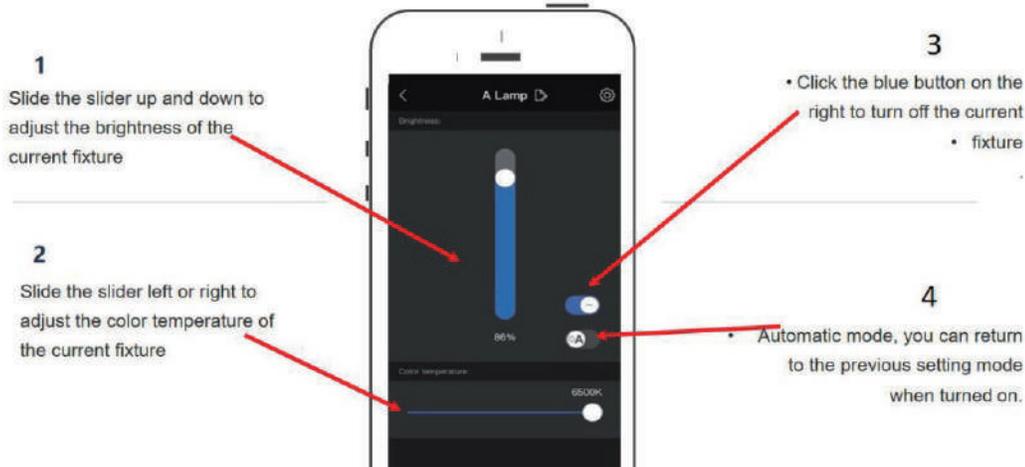
1. Click a fixture to enter its commissioning page



2. Set the color temperature and brightness of the fixture

8.4 Button Definition

Button definition



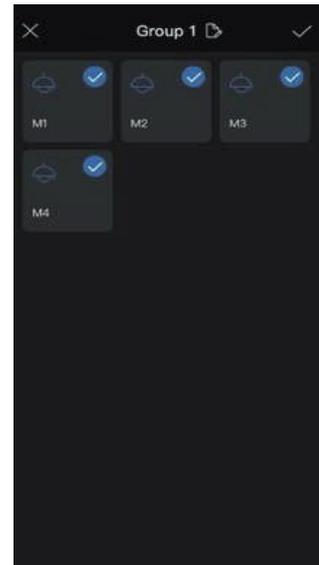
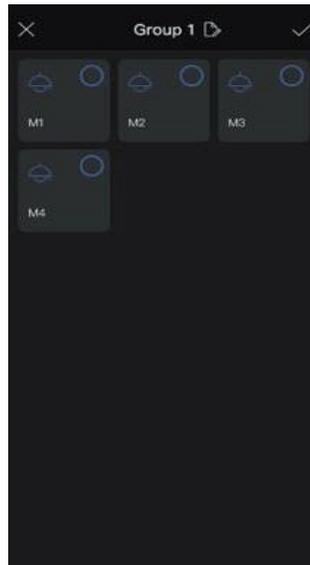
1
Slide the slider up and down to adjust the brightness of the current fixture

2
Slide the slider left or right to adjust the color temperature of the current fixture

3
Click the blue button on the right to turn off the current fixture

4
Automatic mode, you can return to the previous setting mode when turned on.

9.0 Add a Group



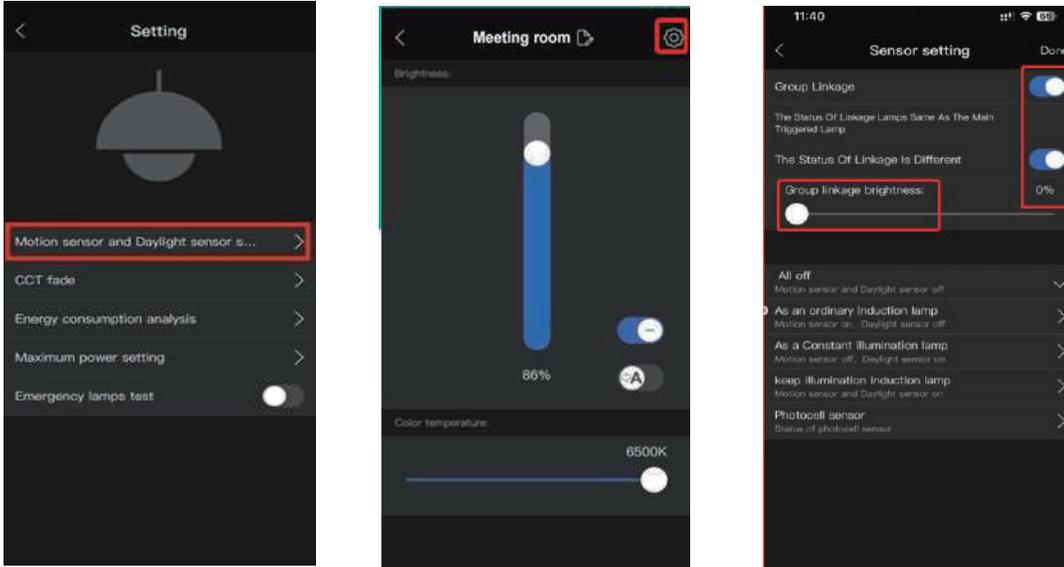
1. Click the Group icon at the homepage

2. Long press a Group to edit

3. Select or add fixtures as a Group

4. Click the checkmark icon to the right of each fixture to save

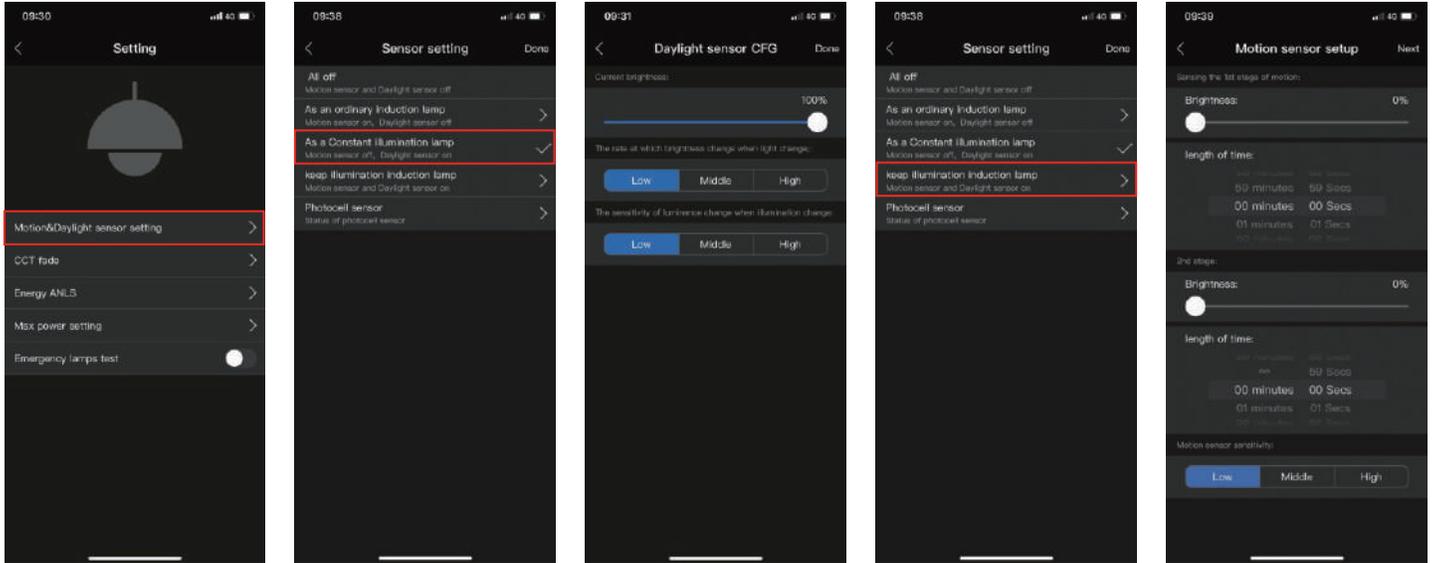
9.1 Group Linkage



1. Click on the setting icon in the upper right corner, click Motion Sensor and Daylight Sensor setting. There are 5 setting modes.
2. Select Group Linkage to enable all fixtures in the group to trigger when a sensor from any one fixture is triggered.
3. The progress bar indicates the response brightness of all other fixtures except the triggered device.
4. The Group Linkage lighting time is the total lighting time of the first and second stages.

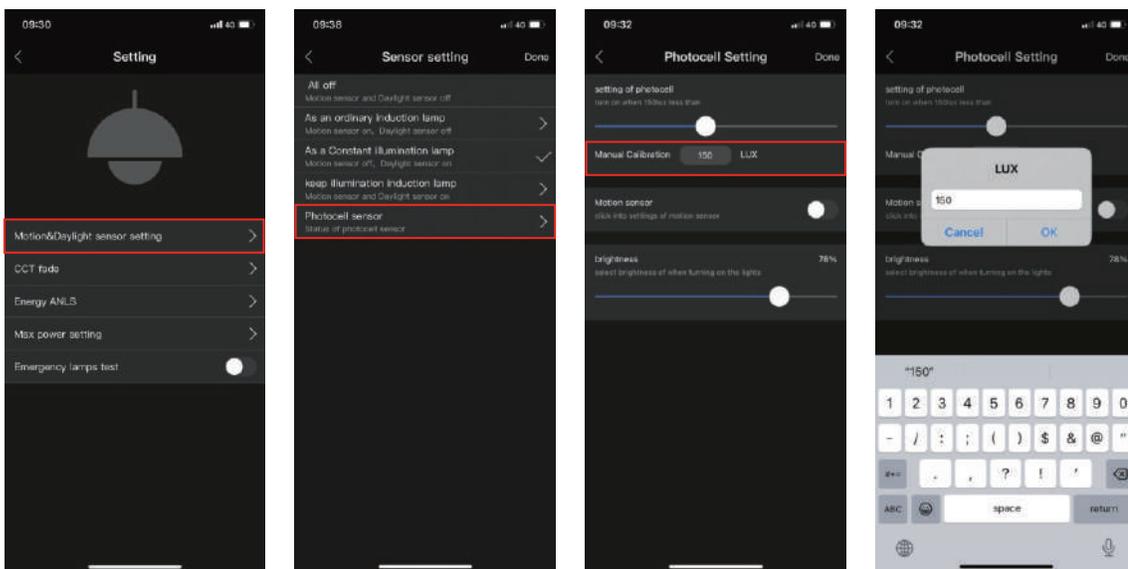
9.2 Sensor Settings

Daylight Sensor



1. Click Motion & Daylight Sensor setting
2. Click As a Constant Illumination Lamp
3. Adjust brightness and sensitivity of the lamps
4. Click Keep Illumination Induction Lamp
5. Adjust the brightness and duration of the first and second stage

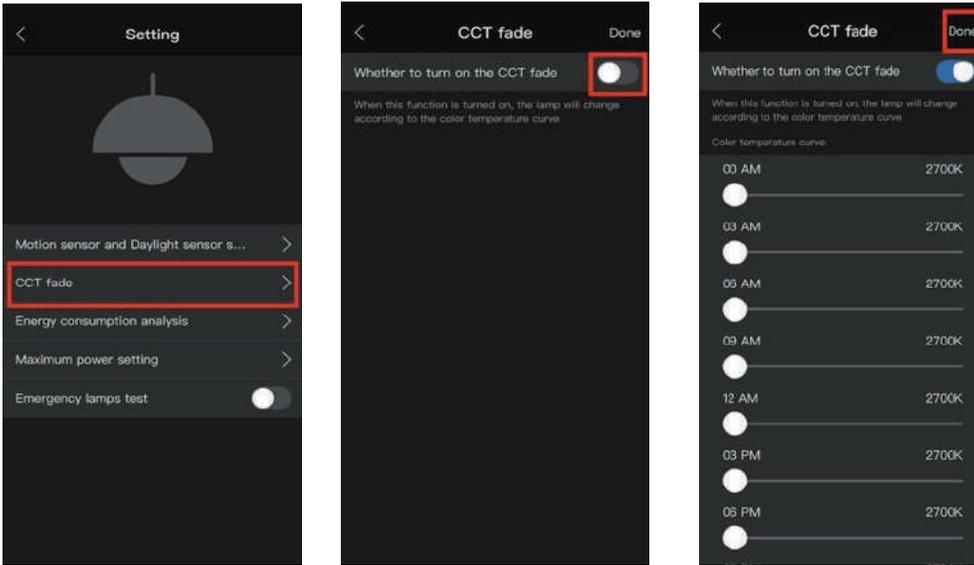
Photocell Sensor



1. Click Motion & Daylight Sensor setting
2. Click Photocell Sensor
3. Set the LUX value required (fixture will turn on when brightness is lower than this value)
4. Adjust Brightness.

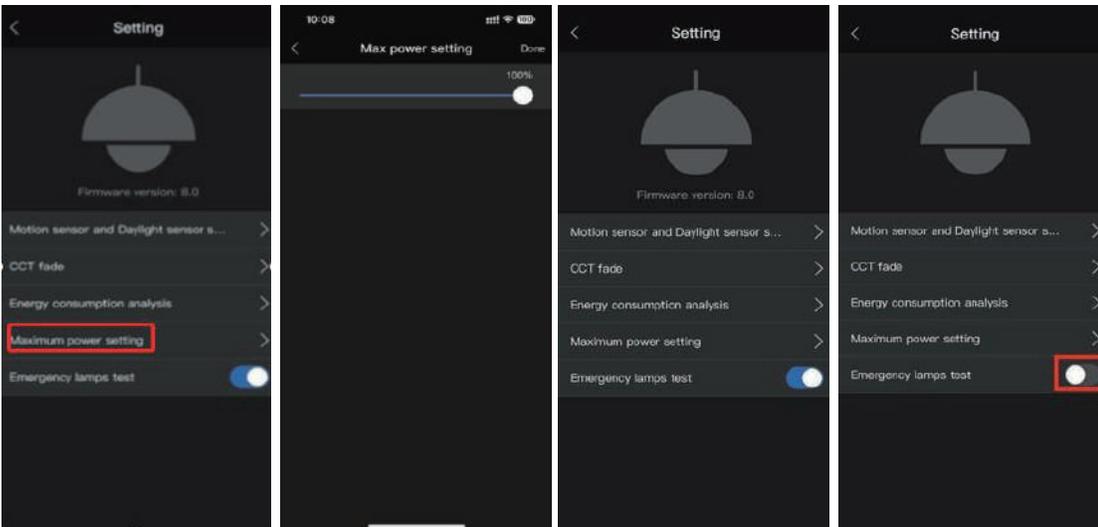
Choose to turn on or off the sensor (the fixture will not turn on when the illuminance is lower than the set value after turning it on and will only turn on when someone triggers it).

CCT Fade



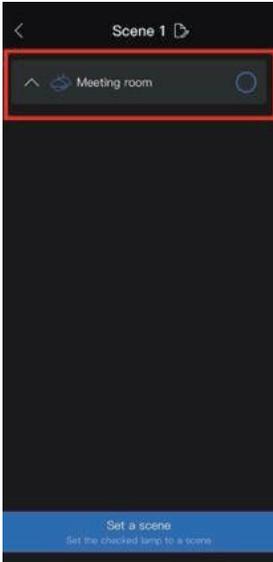
1. Click CCT Fade
2. Enable the function
3. Enter the setting interface and set the required color temperature for different time periods as required

Maximum Power



1. Click Maximum Power
2. Adjust the maximum power of the lamp
3. Click Emergency Lamps Test to enable the feature

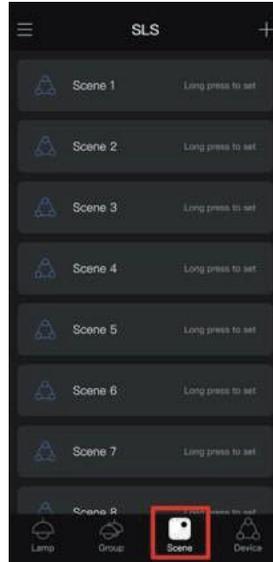
10.0 Add Scenes



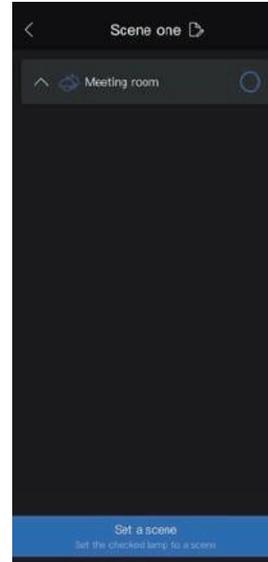
1. Select the fixture or a Group to be edited



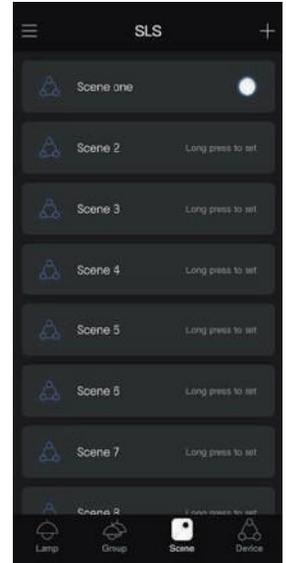
2. Long press a Scene, click the Pencil icon to access the edit page



3. Click Scene at the bottom of the homepage



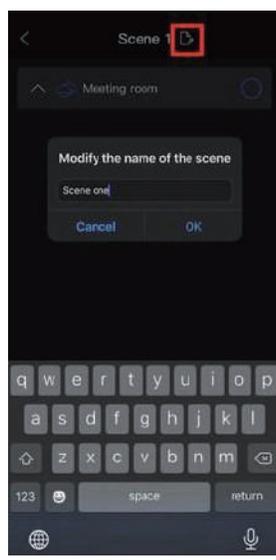
4. Addition is complete



5. Save the Scene

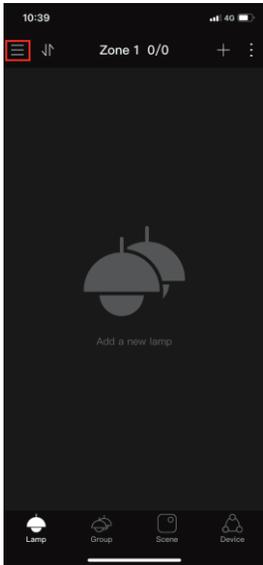


6. Groups can be edited or added as required

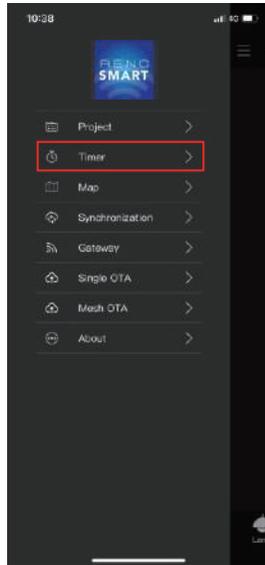


7. Scenes can be renamed to suit your Project

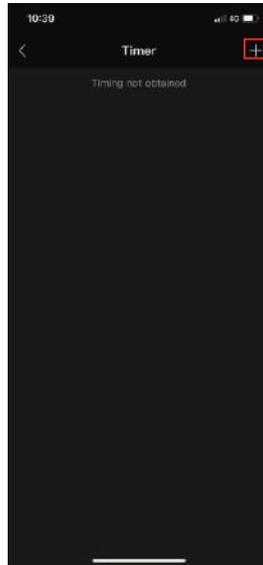
11.0 Add Timer



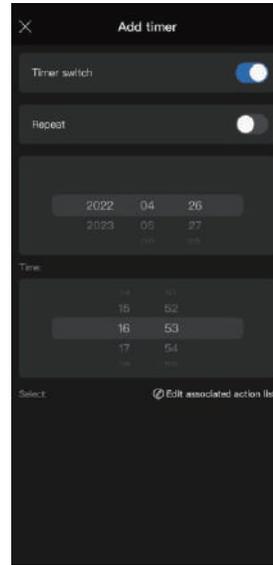
1. Click Sub-functions



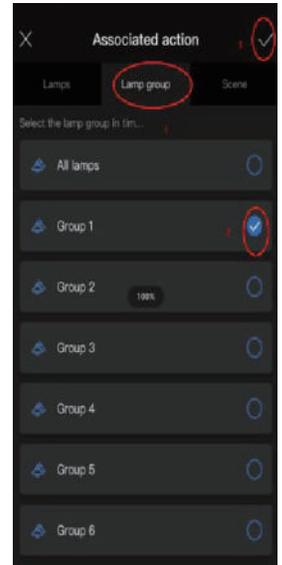
2. Select Timer



3. Click + to add Timer



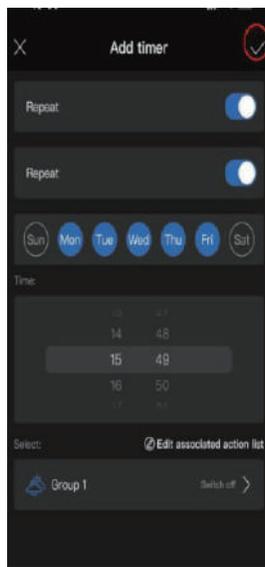
4. Enter the Timer setting page



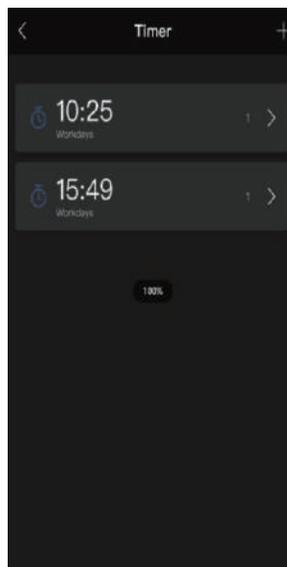
5. Bind a single indicator, group or scene



6. Edit Lamp List

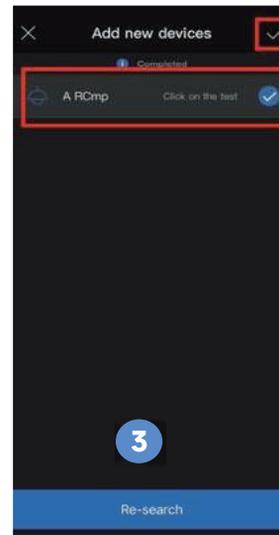
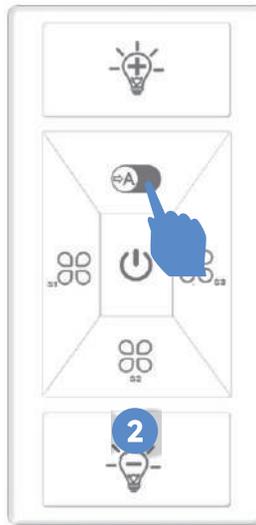
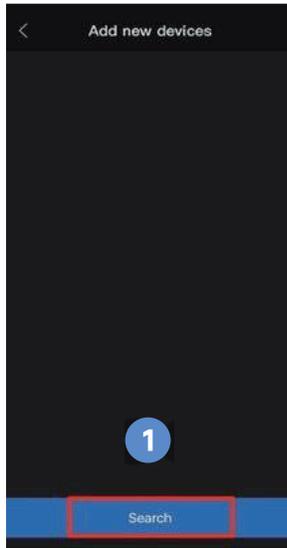
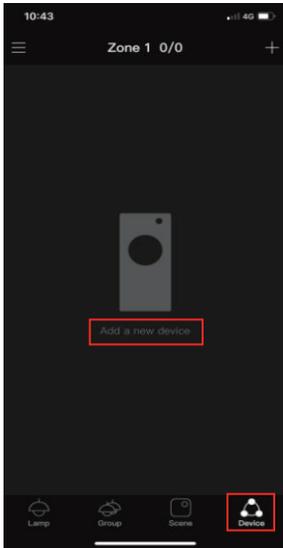


7. Set the time and click the checkmark icon

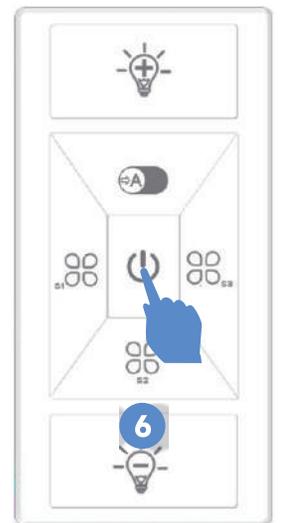
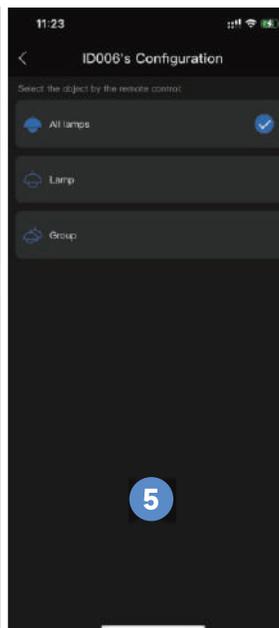
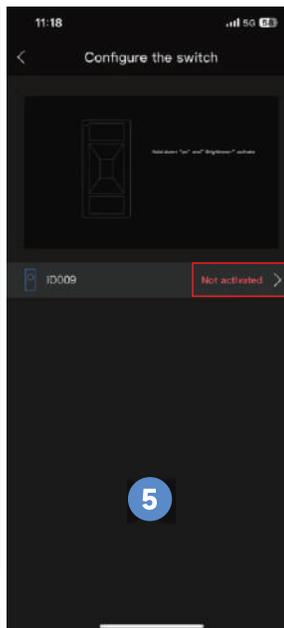
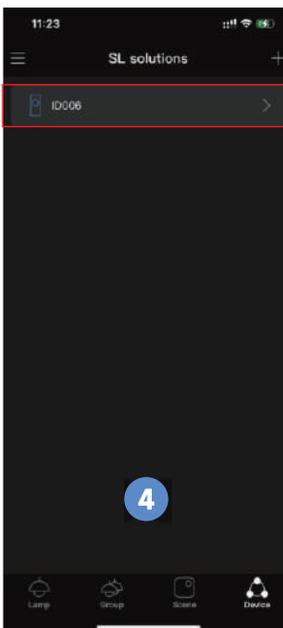


8. The saved Timer will appear successfully

12.0 Add Smart Wall Switch (Optional)



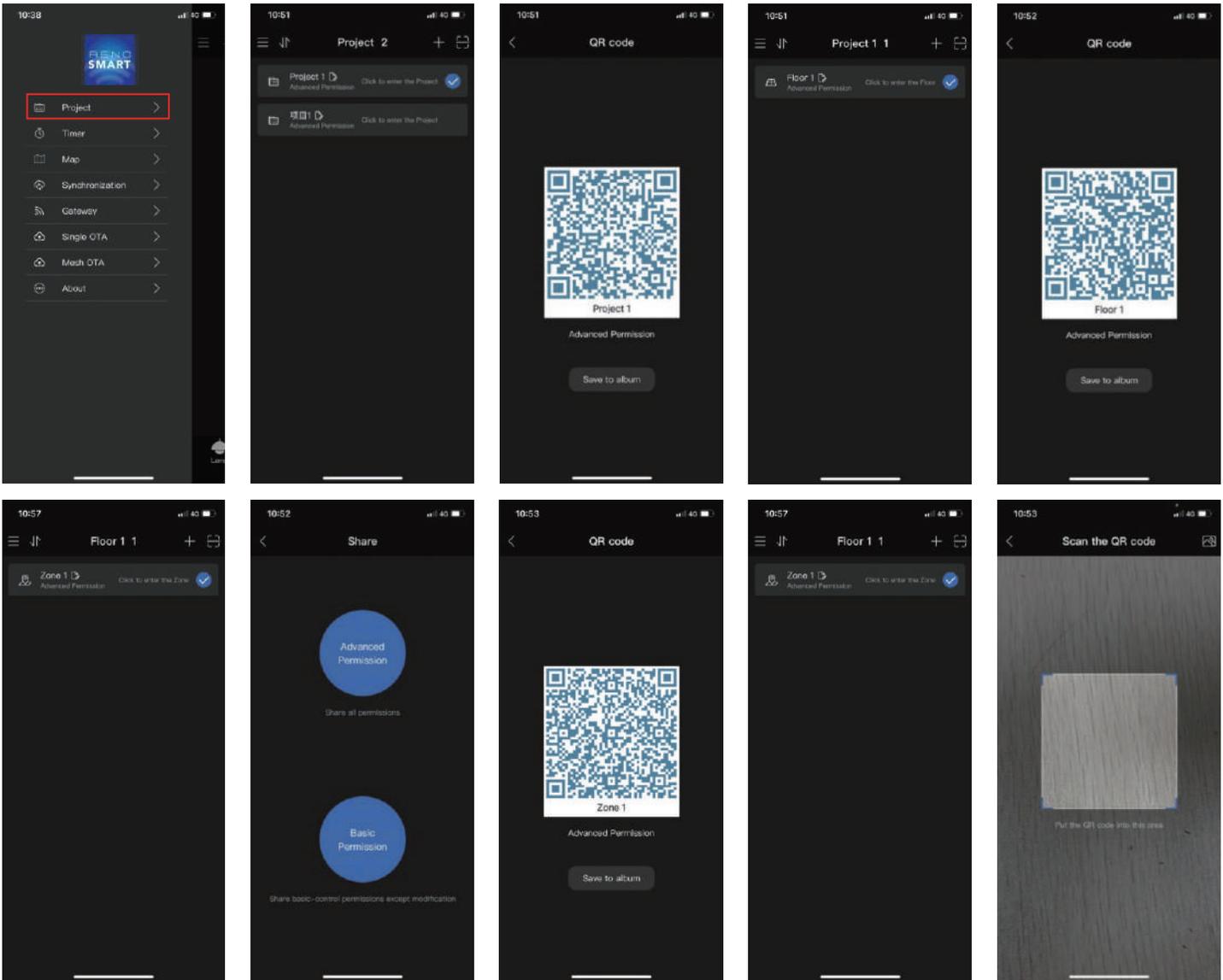
1. Click Accessories to add Devices
2. On the Wall Switch device, press and hold Automatic Mode for 8 seconds to enter into distribution mode
3. Search for the device and click the checkmark icon to add it
4. After adding it successfully, press Automatic Mode on the Wall Switch again to activate the device



5. Configure the Switch, Activate it, and configure for all fixtures, single fixture or a Group
6. Press and hold the Switch button on the Wall Switch for 8 seconds to restore the long setting

13.0 Sharing the Project QR Code

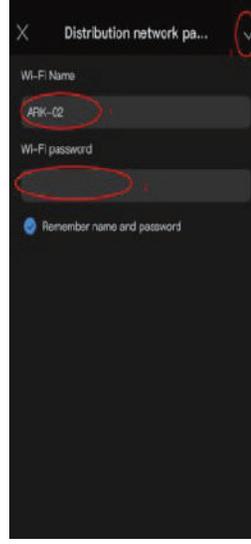
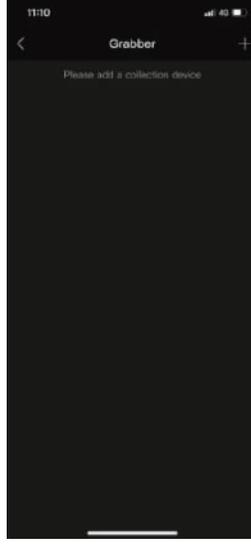
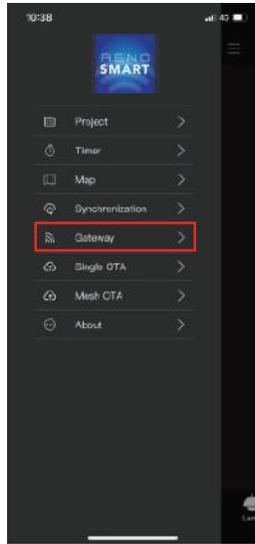
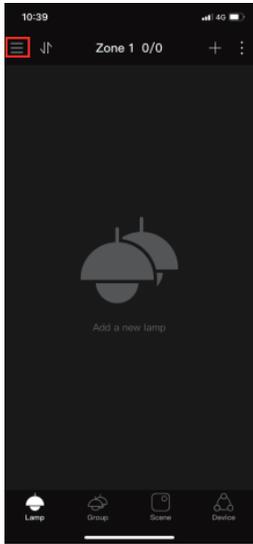
NOTE: If your Project was commissioned using an iOS device, the QR code sharing will only work with other iOS devices. Likewise, if the Project was commissioned using an Android device, it can only be shared with other Android devices.



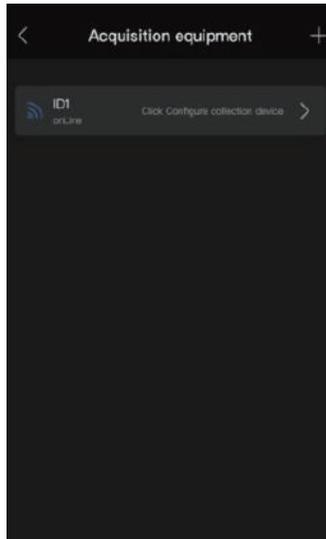
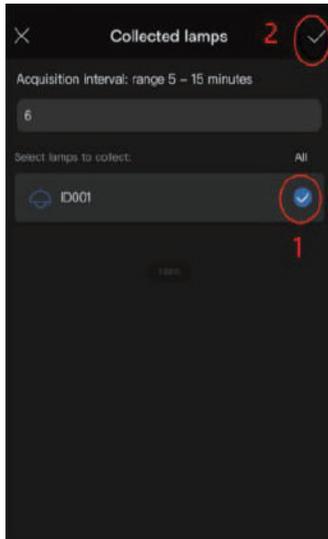
1. Click the upper left corner to enable sub-functions, then choose Project
2. Click on the Project you want to share and save the QR code to the album
3. Click on the Floor you want to share and save the QR code to the album
4. Click on the Zone you want to share (select either Advanced or Basic Permission)
5. Using the RENO Smart app on the device you are sharing to, scan the QR code to access permissions

- **Advanced Permission:** Provides all of the functional permissions to modify settings
- **Basic Permission:** Can only be used with existing settings and does not have permissions to modify settings

14.0 Adding a Gateway

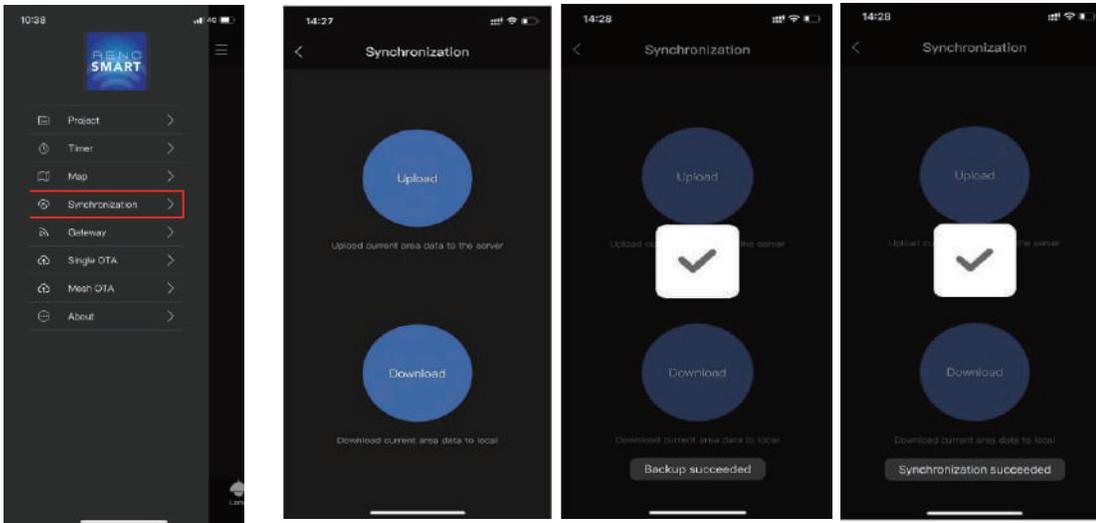


1. Click Settings icon
2. Click Gateway
3. Click + to add the Gateway
4. Enter the Wi-Fi account password and Confirm



5. Click the Gateway and set the parameters
6. Select the device, bind it, then tap Finish
7. Device is successfully paired

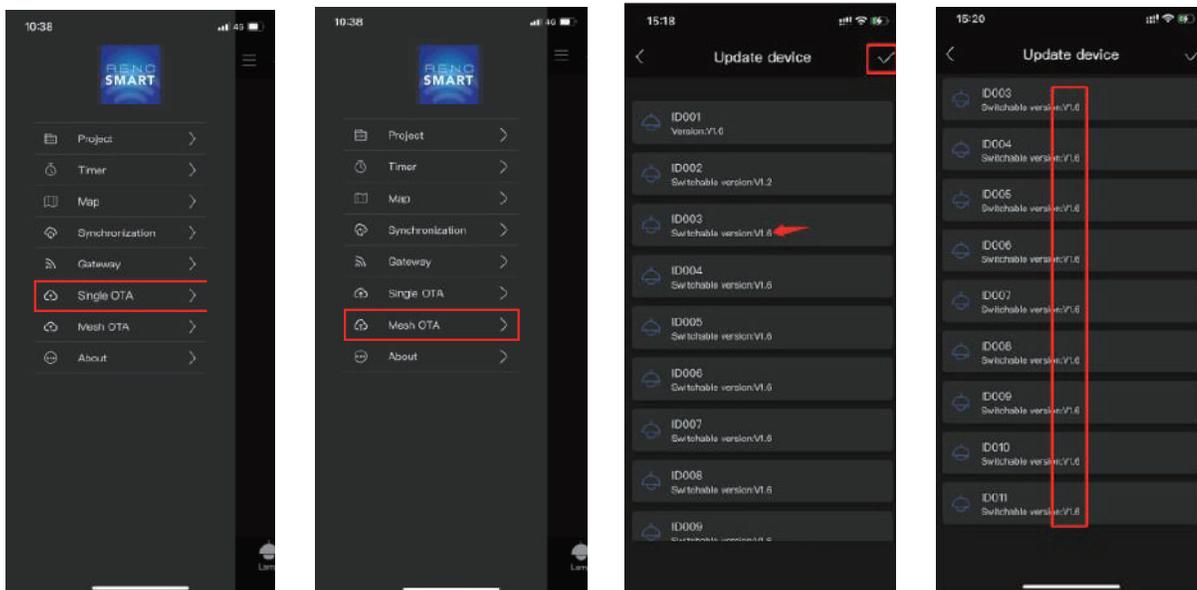
15.0 Data Synchronization



1. Select Synchronization
2. You can download data directly if one device has uploaded, so you can synchronize data between different devices

16.0 Over-the-Air Updates

OTA upgrades bring upgraded functions but will make previous programming invalid (only Zone setup configuration are retained).



1. You can choose between Single or Mesh OTA over-the-air updates when available
2. Select the devices to update
3. When upgrades are complete, the device version(s) are changed

17.0 Using the Cloud Platform for Energy Monitoring & Control Management

Note: A Gateway (R75102) is required for this function.



1. To login to the Cloud Platform, on your desktop computer, go to:

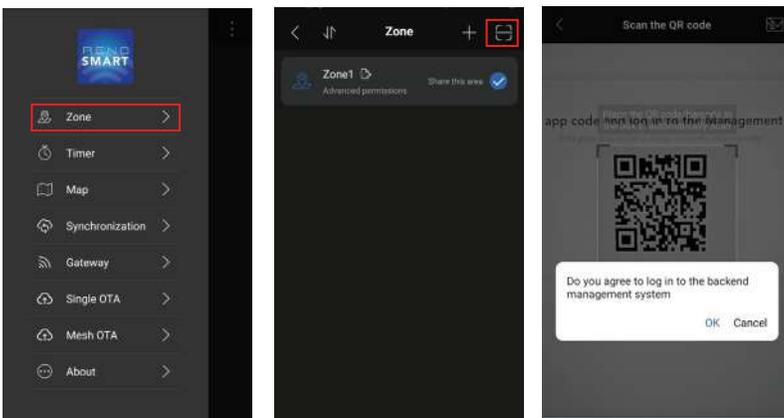
If your RENO Smart NLC system is configured using the iOS app:

<http://3.136.59.53:8082/su/#/LoginPc>

If your RENO Smart NLC system is configured using the Android app:

<http://3.136.59.53:8082/web/#/LoginPc>

A QR code will appear, prompting you to scan it with your RENO Smart app.

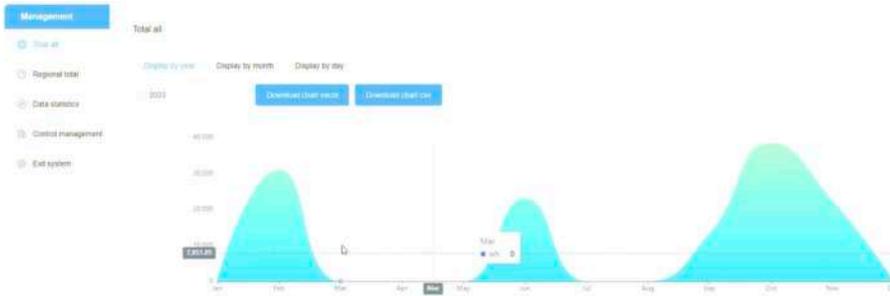


2. In the RENO Smart app, go to Zone
3. Tap the scan icon on the upper right corner
4. Scan the QR on your desktop and click OK to accept and login

17.1 Energy Monitoring

After logging into the Cloud Platform, can view the energy statistics of the lamps including:

- Annual/monthly/daily energy statistics
- Energy statistics for individual devices
- Data export



Energy Statistics (by Year/Month/Day)

Region	Equipment name	Device Address	State	Update time	Operation
China	E001	1	Online	2023/11/16 16:16	View chart
	E004	4	Online	2023/11/16 16:16	View chart
	E005	5	Online	2023/11/16 16:16	View chart
	E006	6	Online	2023/11/16 16:16	View chart
	E007	7	Online	2023/11/16 16:20	View chart
	E008	8	Online	2023/11/16 16:16	View chart
	E009	9	Online	2023/11/16 16:16	View chart
	E011	11	Online	2023/11/16 16:16	View chart

Energy Statistics (by Devices)



Energy Statistics (Data Export)

17.2 Control Management of Fixtures, Groups, and Scenes

The remote control is first set up on the mobile app, but can then be controlled remotely on the desktop computer via the Cloud Platform’s Control Management feature. Control Management capabilities include:

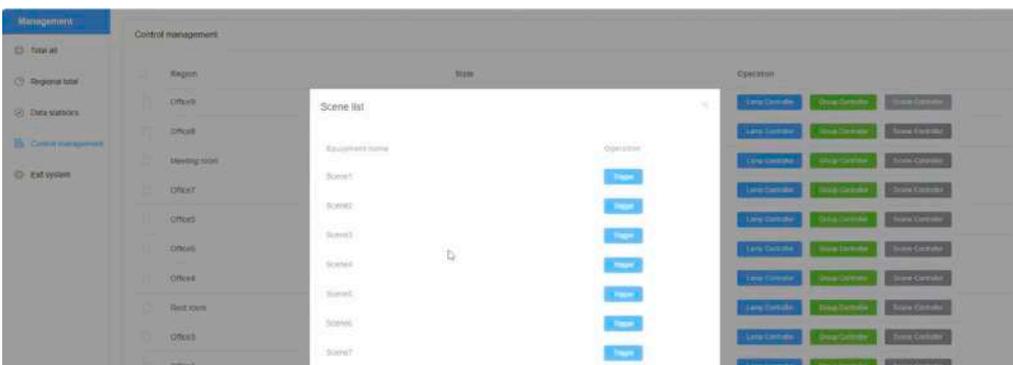
- Fixture Control (control power status, sensor status, brightness, and color temperature)
- Group Control (control power status, sensor status, brightness, and color temperature of fixture Groups)
- Scene Control (control Scenes)



Control Management: Fixtures



Energy Statistics (by Year/Month/Day)



Energy Statistics (by Year/Month/Day)



NEED HELP WITH COMMISSIONING?

For customers with more detailed projects, we offer Intermediate and Advanced Commissioning Plans performed by a RENO Smart Certified Expert to ensure your site is setup and operating at maximum efficiency. Please contact us for more information.

BASIC	INTERMEDIATE	ADVANCED
Self-commissioning	Assisted-commissioning (virtual/phone)	On-Site Professional commissioning
Easy step-by-step instructions following our Commissioning Guide	Live Expert guides you through the process via our Commissioning Guide	A RENO Smart Certified Expert commissions your site for you
Suitable for single zones with multiple groups	Suitable for multiple zones and groups	Suitable for multiple zones and groups
		Designed for environments that require Gateways and advanced data collection
\$	\$ \$	\$ \$ \$
Self-commissioned	Virtual / Phone Expert	On-Site Expert

