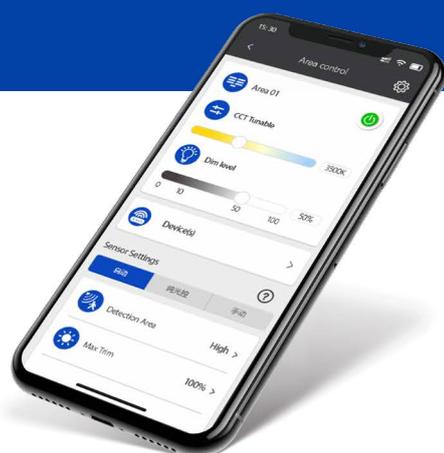




Network lighting control APP Instruction Manual



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INTRODUCTION

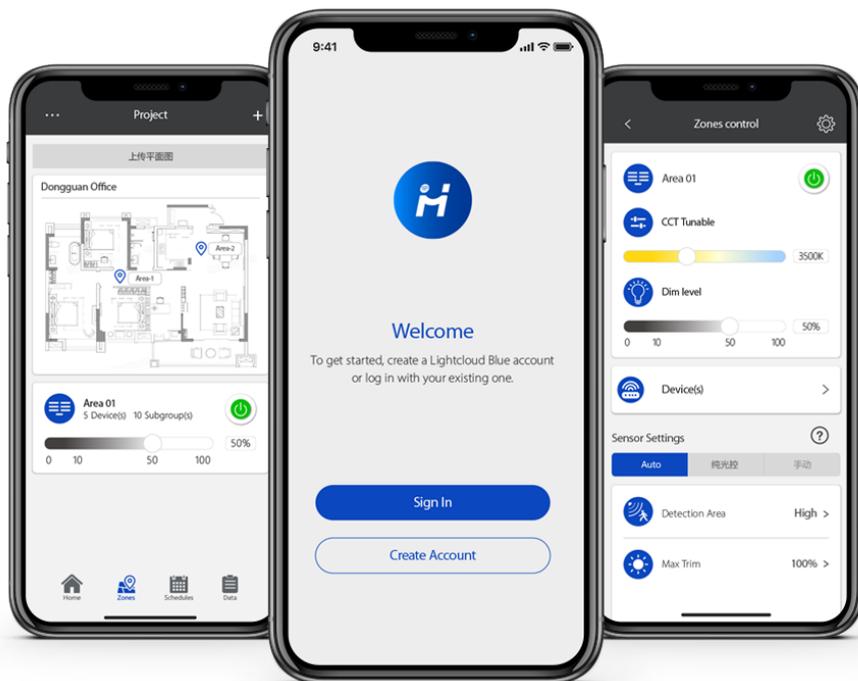
HSE WISE app enables users to control lighting fixtures either individually or in groups. It offers the flexibility to customize lighting settings based on different scenarios, such as offices or warehouses, which contributes to energy - efficient management.

The app operates on Bluetooth Low Energy Mesh 4.0 and 5.0 protocols. These protocols are characterized by low power consumption and a self - healing, self - expanding network. With a communication range of up to 100 feet or even farther, they ensure more stable connections between devices and broader coverage.

It seamlessly integrates with a variety of sensors, including microwave motion sensors, PIR sensors, as well as wall switches, emergency drivers, and controllers. This wide - ranging compatibility allows it to meet the diverse requirements of different scenarios.

Devices can establish direct connections with each other without relying on a traditional gateway. This not only simplifies the installation and setup procedures but also cuts down costs. Moreover, it empowers the system to operate independently in areas without network access.

To safeguard network security, the app utilizes data encryption. The configuration settings of each device are stored in encrypted QR codes. Without the corresponding QR code, access to these settings is strictly prohibited, thus protecting the security and integrity of the entire system.



CAPACITY LIMITS

The following chart provides the capacity limits of the HSE platform

Devices	Each project can have an unlimited number of zones, and each zone can have 120 devices
Device/Group	A device can be associated with eight virtual 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. Note: switches and lights are calculated separately. Adding switches to a zone does not affect the maximum number of lights.

Recommended Parameter Settings By Space Type (Refer to the Project Controls Sequence of Operations)

SUGGESTED SETTINGS FOR ZONE TYPE

Zone	1st Time Delay (T1) (minutes)	2nd Time Delay (T2) (minutes)	Dim Level (%)	Linkage light level (%)	Scenes	Wall Switches
Open office area	20 mins	1 min	50%	50%	No Scene	Button programmed to ALL OFF for quickly turning off lights when leaving office
Meeting Room	20 mins	1 min	80%	80%	Configure PPT / Lecture scenes	Associate PPT / Lecture scenes to SCENE button on wall switch
Classroom	30-40 mins	5 mins	80%	80%	Configure PPT / Lecture scenes	Associate PPT / Lecture scenes to SCENE button on wall switch
Storage Room	10 mins	1 min	30%	80%	No Scene	No switch
Corridor	10 mins	1-Infinity mins	30%	50%	No Scene	No switch

CAUTIONS

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 APP will try to sync the data automatically in the background to the server(cloud) whenever an update has been made to the zone. You may also select 'Force Sync on the 'More' page to sync manually.



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.

3. Check for firmware updates.

Continuous improvements to the HSE products may require a firmware update to maintain compatibility to the other devices in a Zone. If experiencing connectivity or feature issues, download the Spiral Engineering App for iOS platform devices and perform a search of products in need of a firmware update.

HOW TO DOWNLOAD AND NAVIGATE THE APP

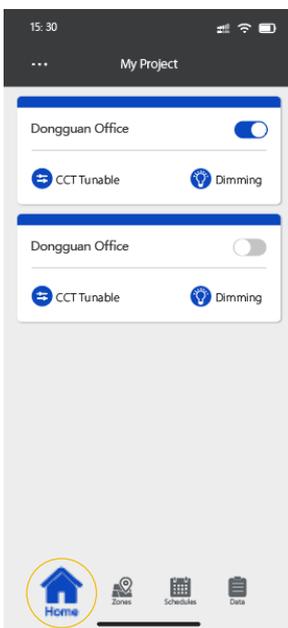
To download the HSE BLUE APP, scan the QR code Right side, which corresponds to the type of smart phone/tablet that will be downloading the APP:



HSE BLUE Android

APP NAVIGATION

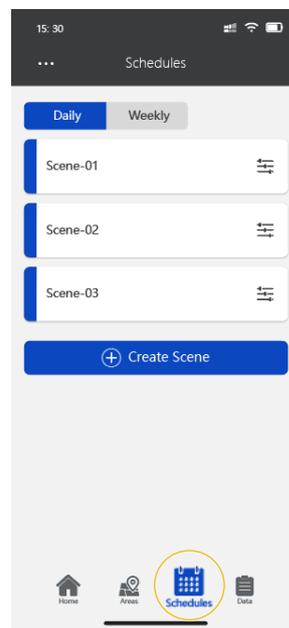
HSE APP has four tab pages which you can move between to provide easy control of your lights. They are located in the bottom menu bar of the screen



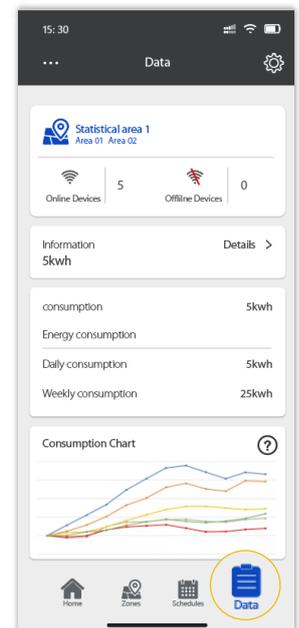
“Home” page showing all the existing projects, users can check and edit the current projects.



“Zones” page allows users to manage existing zones, check existing floorplan or upload the new ones.



“Schedules” page allows users to manage existing scenes or weekly plans and create new ones.



“Data” page allows users to check time table, energy consumption statistics and send out report.

COMMISSIONING

The following commissioning procedure is recommended:

01
STEP

Get prepared

Download the app - Create a new account - Create a new project - create new zones as needed.



02
STEP

Add devices and program them

1. Scan the QR code on device, and mount them onto lighting fixtures
2. Power on the lighting fixtures, create a zone and add them into the zone.
3. Make a program to the zone
4. Associate the other zones if hope to have the same settings on all the zones.
5. Create a new schedule or weekly plan and associate it to the zones.
6. Get gateway, energy monitoring devices and other components into the zone.



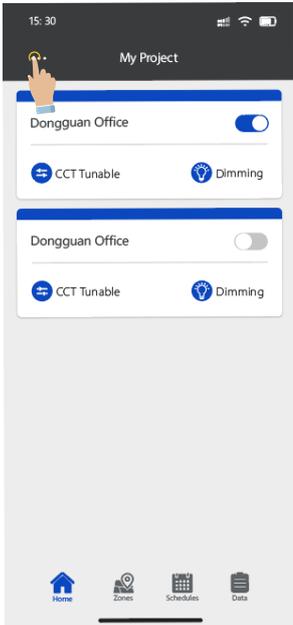
03
STEP

Share the project

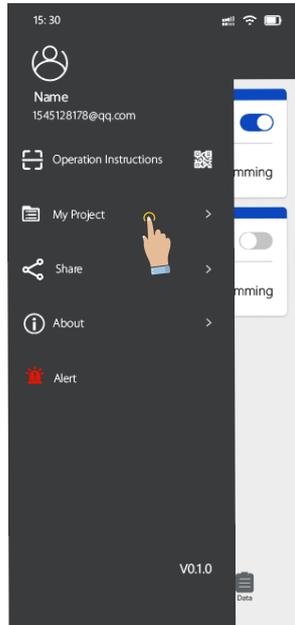
By sharing the project QR code

PROJECT AND ZONES

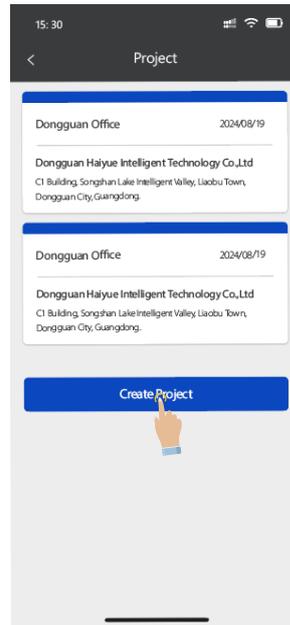
Create new project



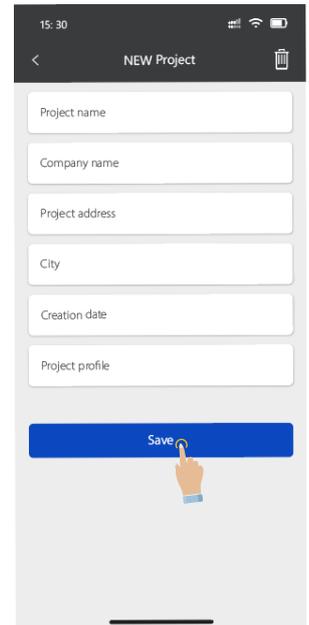
Enter into user account page



Press **"My Project"** to edit.

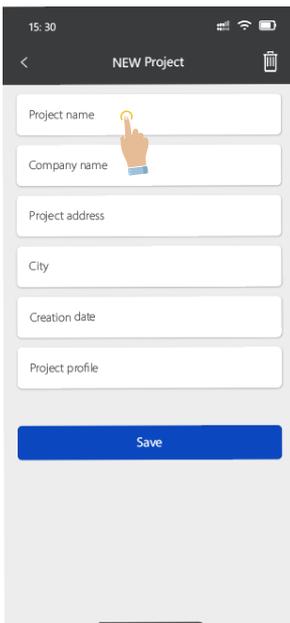


Press **"Create Project"** to start creating a new project.



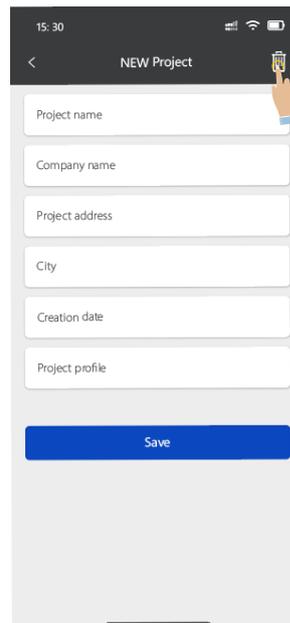
Fill in all the required information, press **"Save"** now you have this new project.

Edit project info



Press the project to edit and save project information.

Delete project



Press delete icon on top right corner to delete the project.

Zone has been considered as the smallest unit, similar to group; devices can be added into the same zone to share the same program or perform the same function.

Create zones



Press “+” button to create a new zone.



Insert a name for the zone then press “confirm”

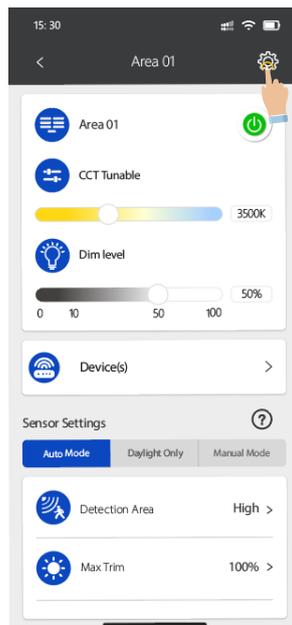


After “confirm” you will find the newly created zone available in the list.

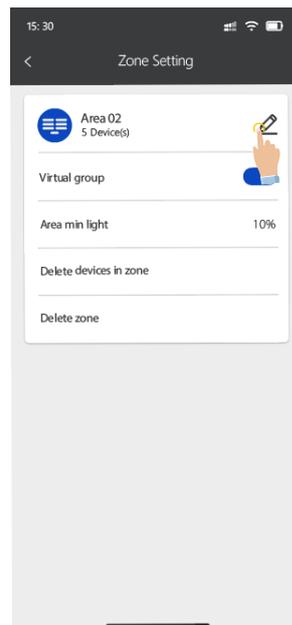
Rename the zone



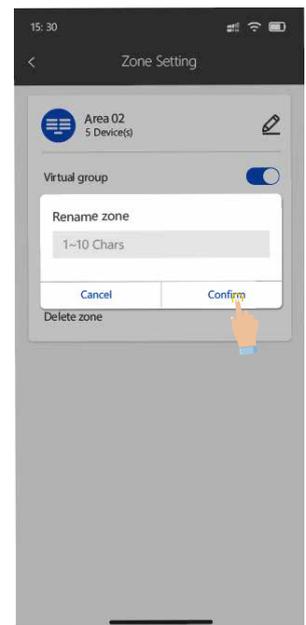
Press the zone if you hope to change its name.



Press “setting” button



Press “pencil” button

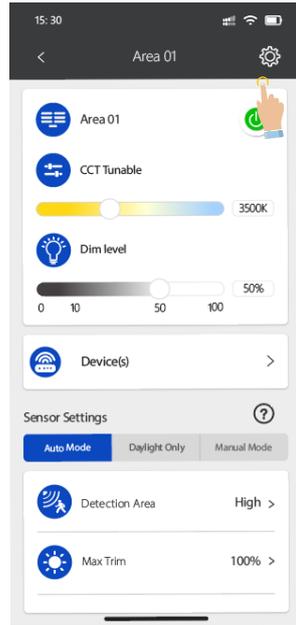


Insert name then press confirm.

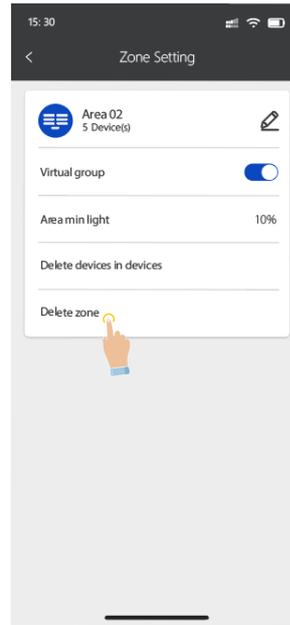
Delete a zone



Choose the zone



Press the **"Setting"** icon on top right corner



Press the **"Delete zone"**

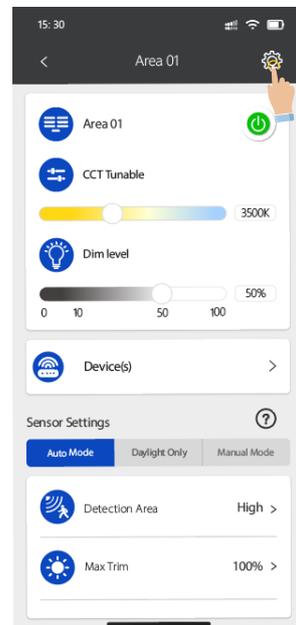


Press **"Confirm"**

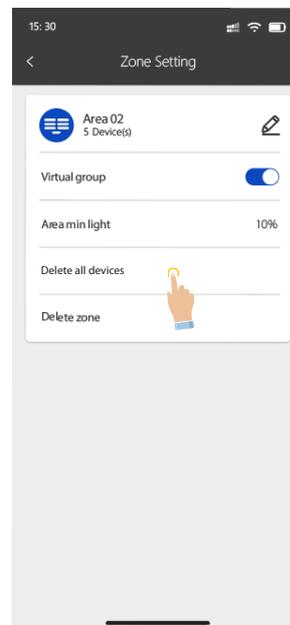
Bulk delete devices in zone



Choose the zone



Press the **"Setting"** icon on top right corner



Choose **"Delete all devices"**



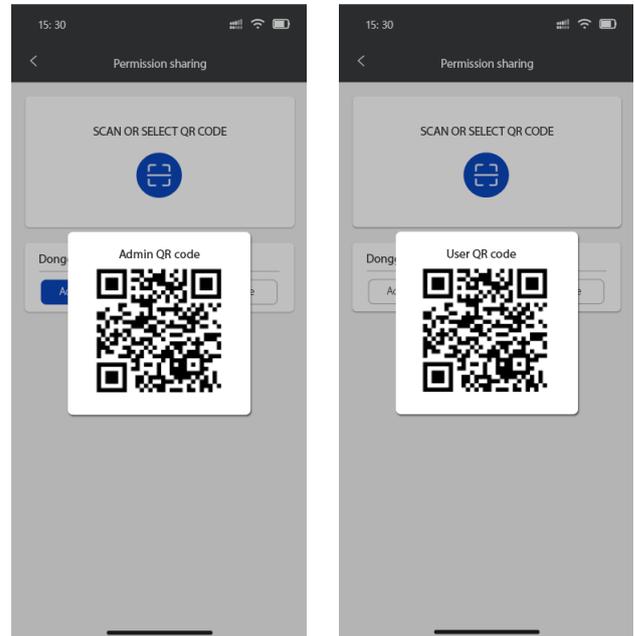
Press **"confirm"** then it's all set.

SHARE MANAGEMENT

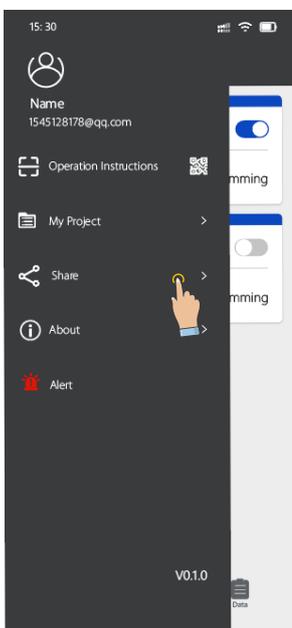
When establish a new project, 2 QR codes will be generated, one as “admin QR code”, the other as “User QR code”

User QR code allows to control the lights, but doesn't allow to add, delete devices or change zone or schedules.

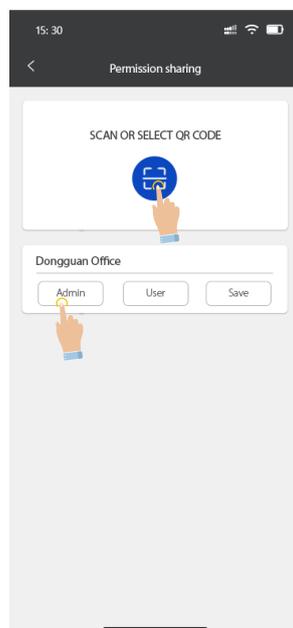
Admin QR code allows to control the devices as well as completely manage them. Only the Admin account can share the Admin QR code.



Scan QR code



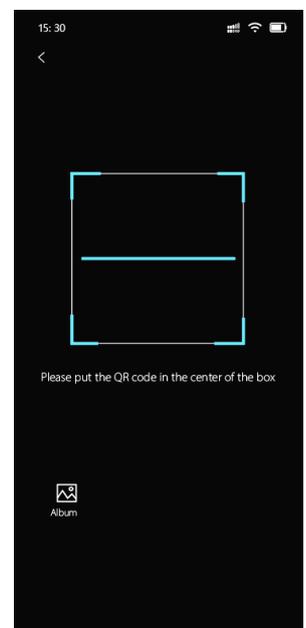
Press the account icon on left top corner, enter into user page, choose “Share” button.



Choose “Scan or select QR code”; choose the zone and ID as User or Admin.



QR code will be generated automatically, can be scanned by others or screenshot to share to others.



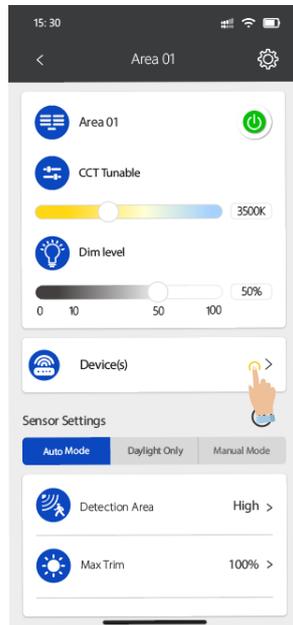
Scan the QR code.

DEVICE

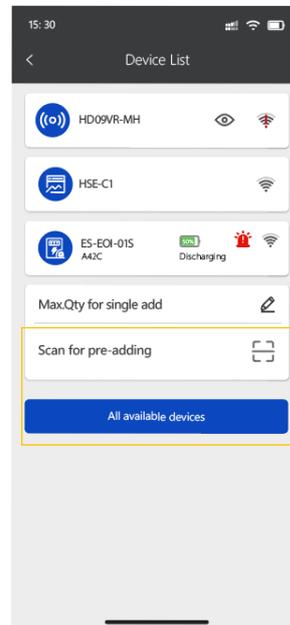
HSE simplifies the process of searching for added devices, allowing users to quickly and easily add Bluetooth devices to the area you need.



Choose the zone, enter into zone management page.



Choose "Device(s)" enter into device list page.

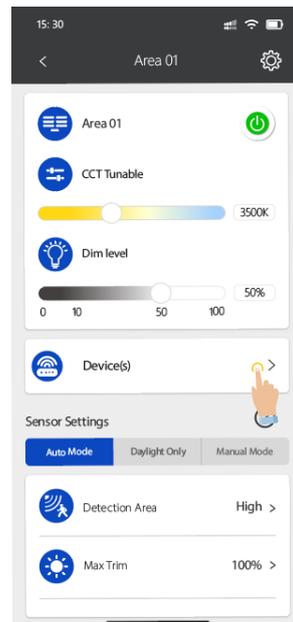


Choose the type of addition you want.

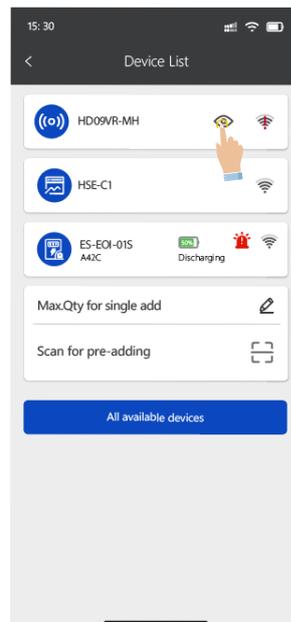
Find device



Choose the zone, enter into zone management page.

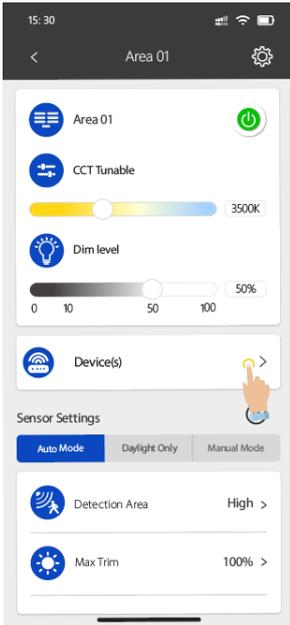


Choose "Device(s)" enter into device list page.

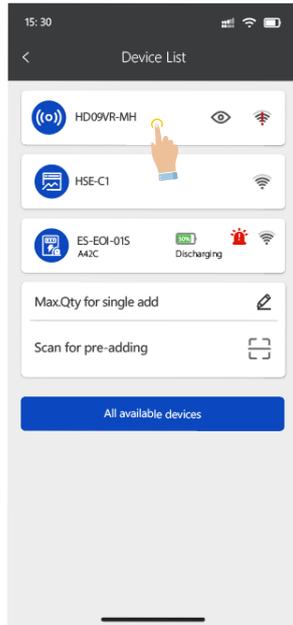


Choose the device which you need to figure its location, press the "👁️" icon, the light will blink to tell.

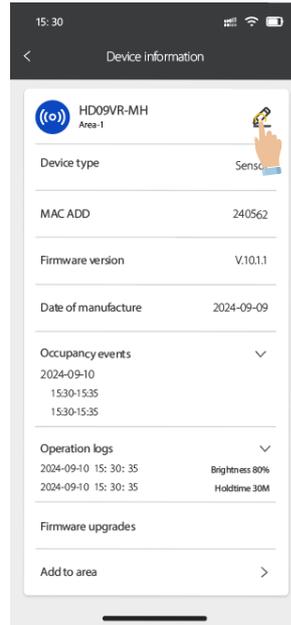
Rename



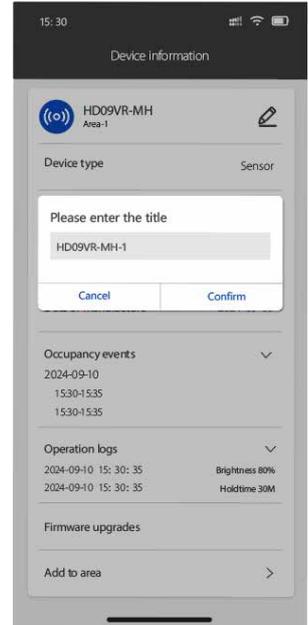
Choose **"Devices"** enter into device list page.



Choose the device which you need to rename.



Press the **"Pencil"** icon

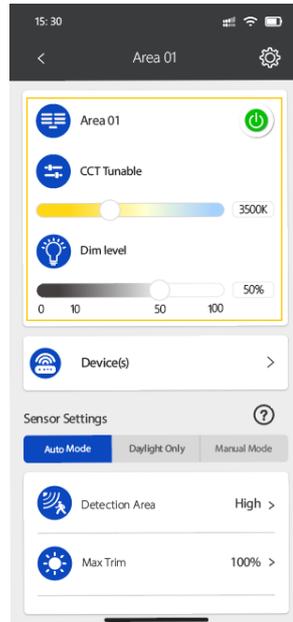


Insert a new name then confirm.

Quickly change brightness and CCT

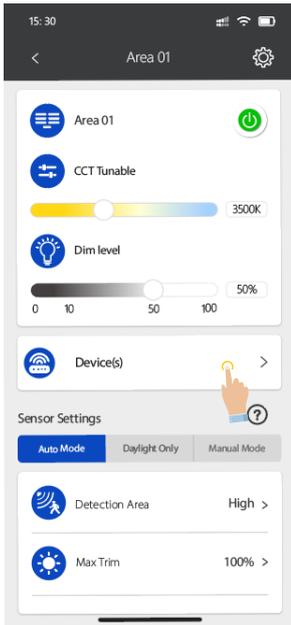


Press the button or slide the bar to quickly on/off or dim the zone devices without entering into the zone.

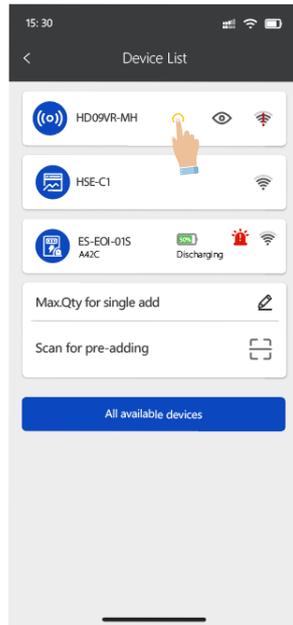


Or enter into the zone control page to turn on/off or slide the bar to change brightness and CCT.

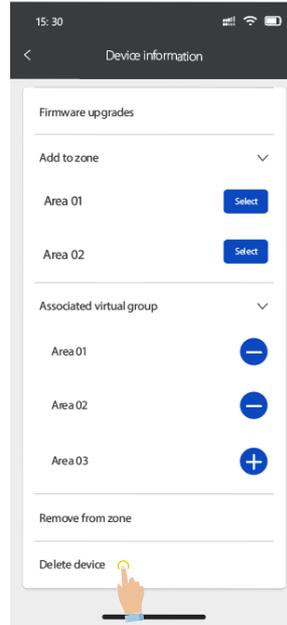
Delete devices



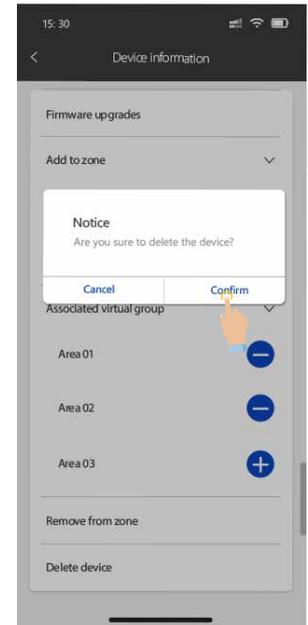
Choose **"Device(s)"** enter into device list page.



Choose the device, enter into device information page.



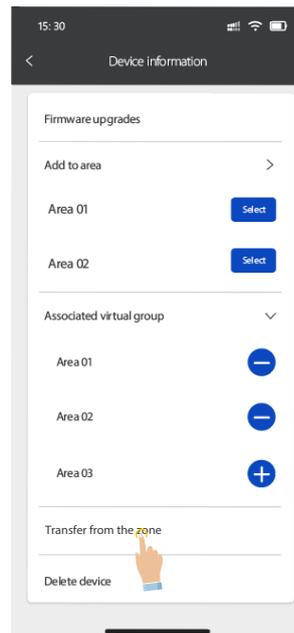
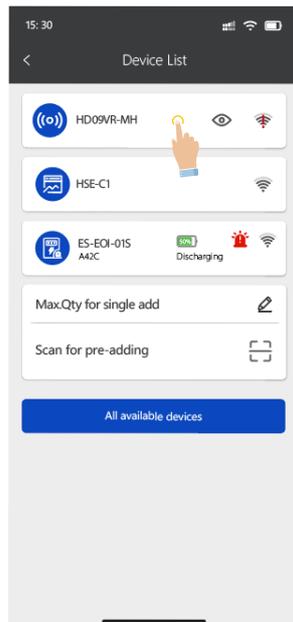
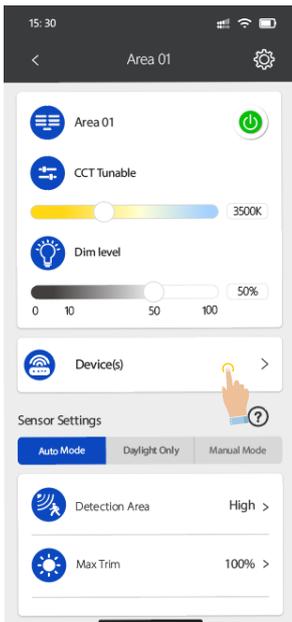
Slide down to find the button of **"Delete device"**.



Press the delete button then choose **"Confirm"**.

Device transfer

Slide down the device information page to find **"Transfer from the zone"**, press it and choose the zone it should go, press confirm, then you will find this device in the new zone.

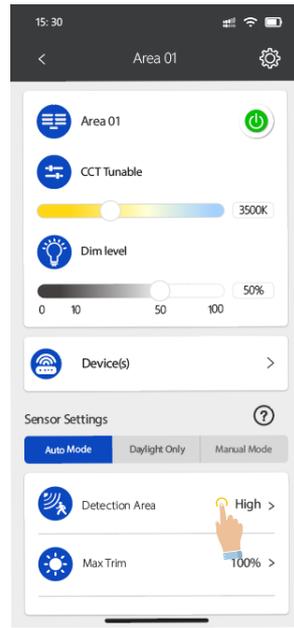


Zone setting

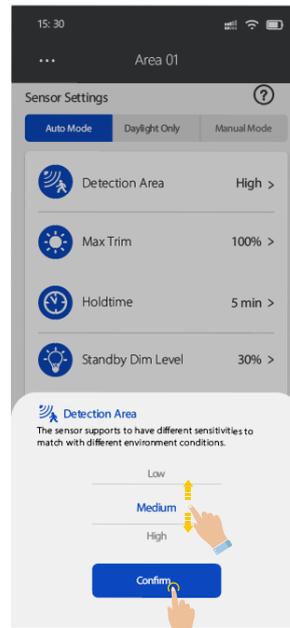
Enter into the zone, make settings then all the devices in the zone will receive the settings.



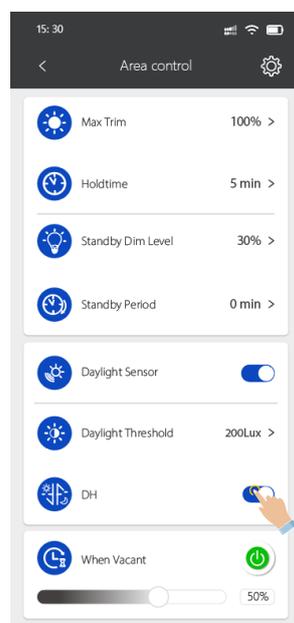
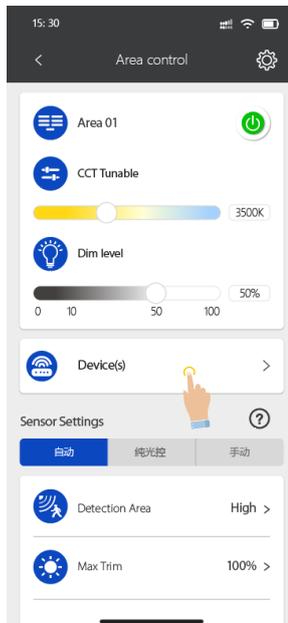
Choose the zone.



Make a setting on all the parameters.



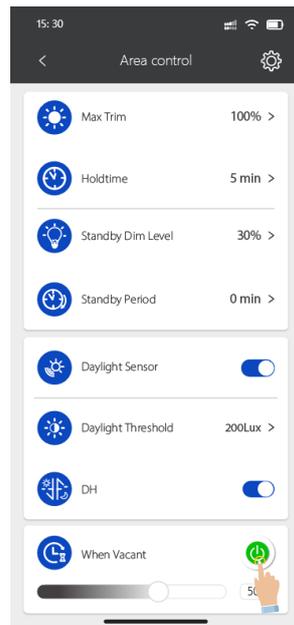
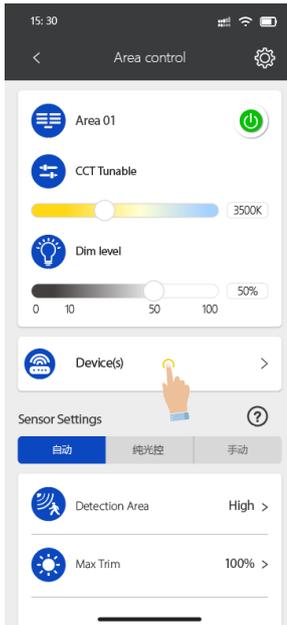
Choose a needed value then press **“confirm”**.



DH-Daylight Harvesting

*Daylight harvesting function performs only in SENSOR mode.

Slide the dim level bar to find a comfortable level, then enter into “Area Control” page to turn on the DH button, then sensor will learn and memorize the environment brightness and automatically dim light output close to memorized level.



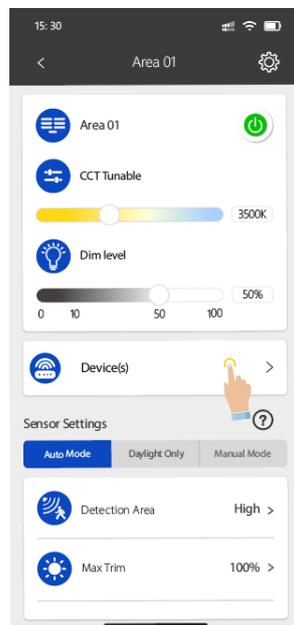
When Vacant

Press the button to turn on or off to activate or deactivate this function; when it's ON, slide the bar to a suitable level, it's designed to keep for a holdtime period; if any motion triggered during this period, it will count down again after motion leaves. After this period ends, sensor go back to normal sensor mode.

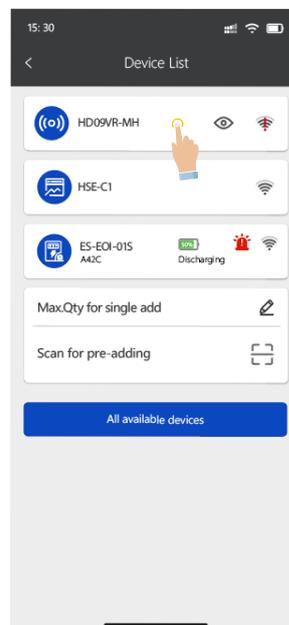
Sensor information



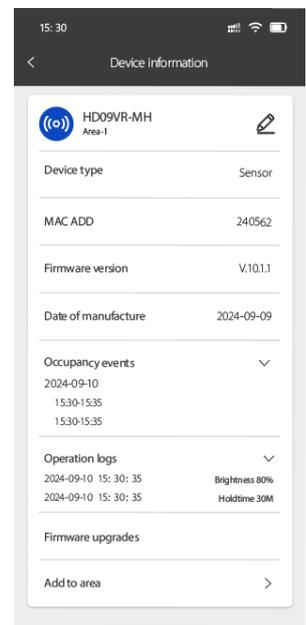
Choose the zone.



Choose the **"Device(s)"** to enter into device list.



Choose the device to enter into device information page.

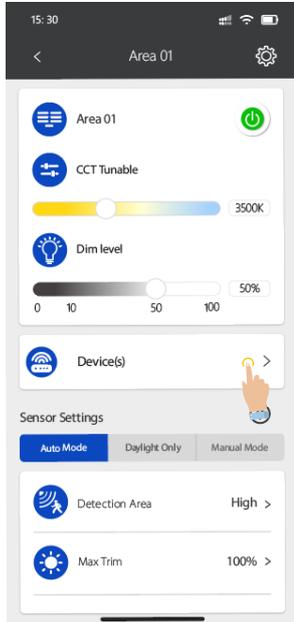


Device information page showing all the information related to this specific device, including its MAC address, firmware version, production date, occupancy record and operation logs.

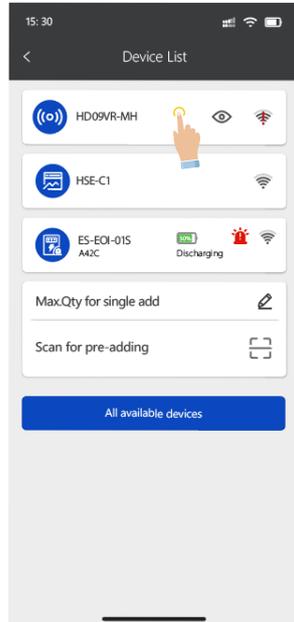
VIRTUAL GROUP

SYNC Programming

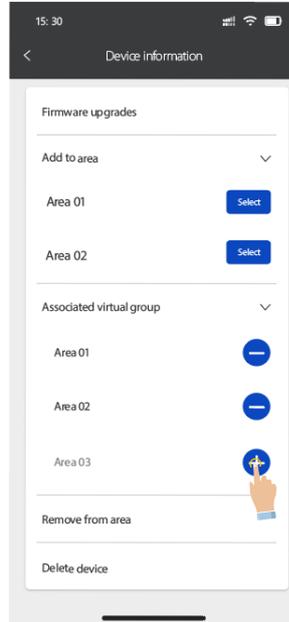
When any device gets triggered in the zone and all the other related devices follow SYNC program, press the setting icon on area control page.



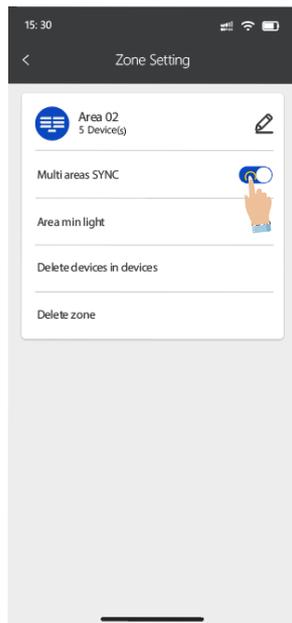
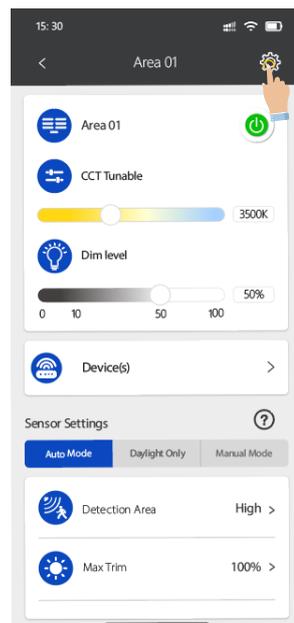
Choose the **“Device(s)”** enter into device list page



Choose the device get into device information page



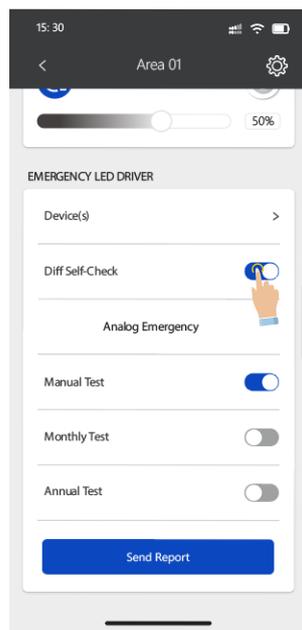
Press **“+”** to associate the other areas.



SYNC Multi-Zones programming

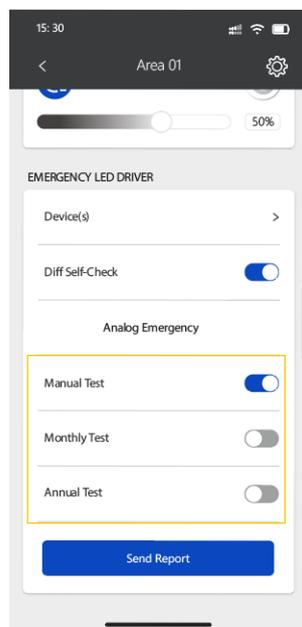
Press the setting icon on top right corner, turn on the **“multi areas SYNC”** button to perform same programs on all devices in related areas.

EMERGENCY BATTERY BACKUP



Differential Self diagnostic

When there are two or more emergency battery backups in a region, the system will automatically divide the emergency battery backups in the same region into two groups for self - diagnostic and discharge at time intervals 24 hours apart. This is to prevent power outages from occurring when the batteries are not fully charged, which could lead to the equipment being unable to provide normal emergency lighting due to insufficient power.



Manual test

Click the Manual test button, the EM will in emergency mode, switches to charging mode after discharging 15S .

Monthly test

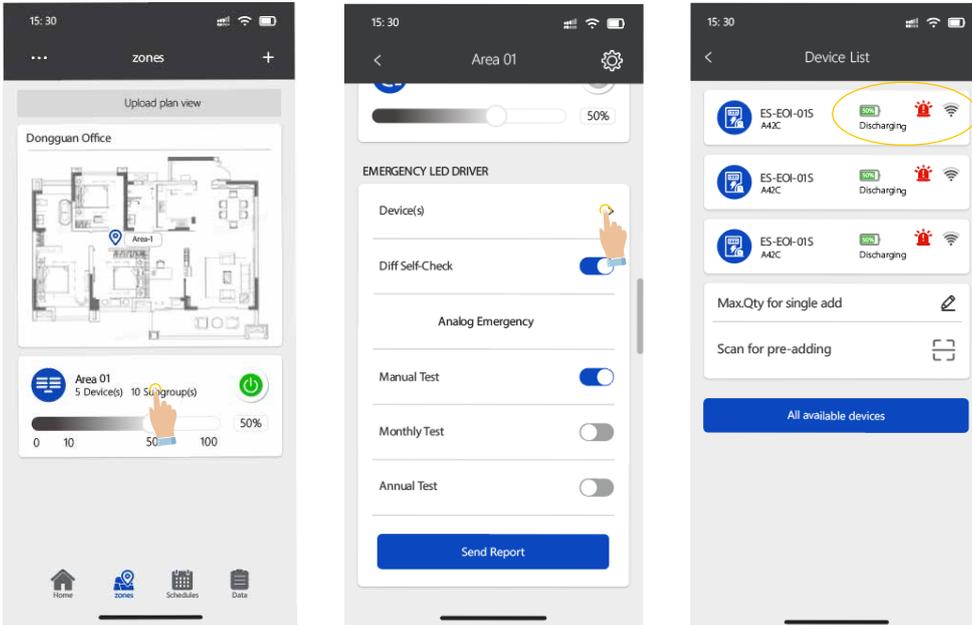
Click the test button, the EM will in monthly test mode, switches to charging mode after discharging 30S .

Annual test

Click the Annual test button, the EM will in Annual test mode, switches to charging mode after full discharging.

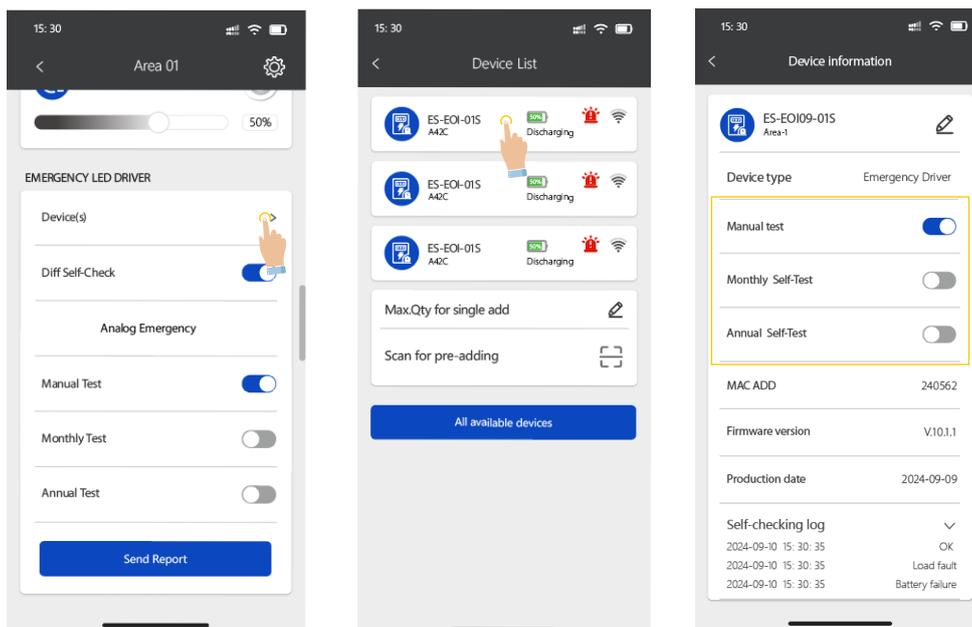
Status information of emergency battery backup

In the equipment list, the key status information of emergency battery backup is displayed in the status bar. You can view the battery level, charging status, and fault alarms.



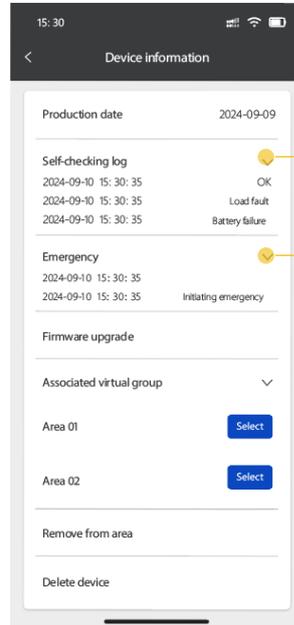
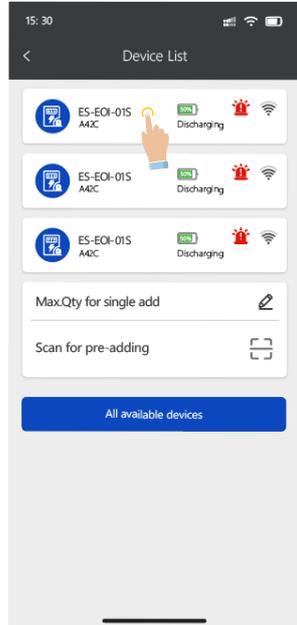
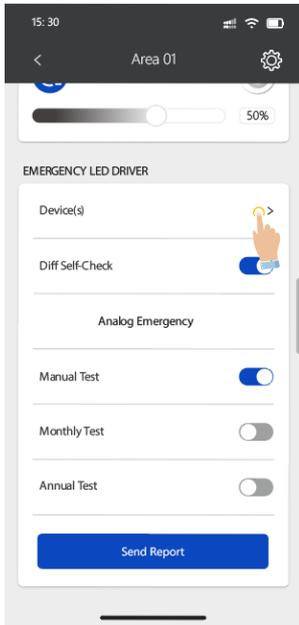
Manual test of a Single Device

When it is necessary to test a single emergency device, you can click on the emergency device to access its device information. Then, you can test the emergency battery backup through manual test, monthly test, and annual test.



Operation Log

When you need to view the self-diagnostic logs and emergency incidents of a single device in the APP, click on the emergency battery backup device you want to check in the device list. You can see "Self - diagnostic Log" and "Emergency Incidents". Click on the corresponding item you want to view, the device's logs will be displayed in the APP.

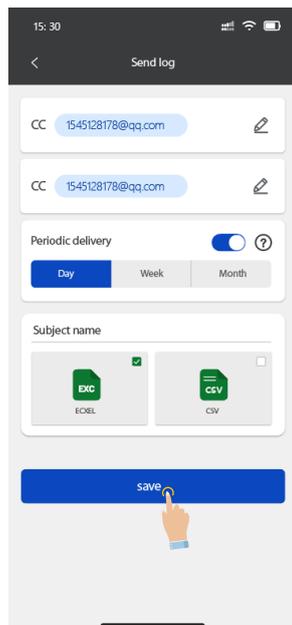
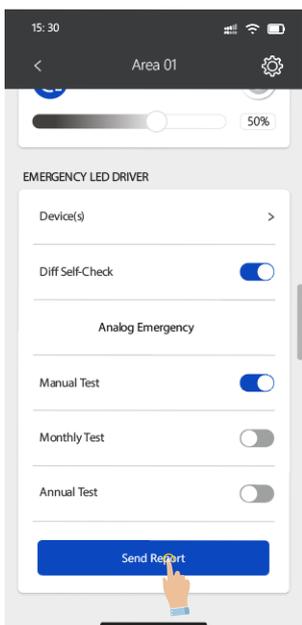


Self-diagnostic log

Record the time and results for the self-diagnostic

Emergency incidents

Record the time of actual power outage incidents in the area



Operation Report (Requires to use the smart gateway in the project)

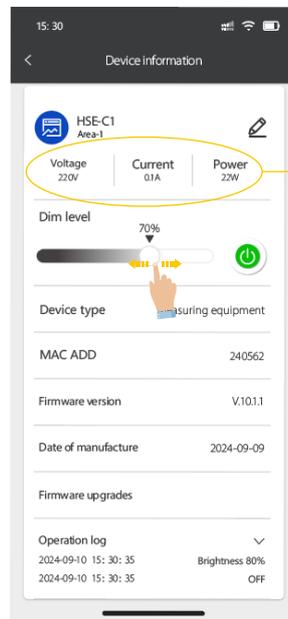
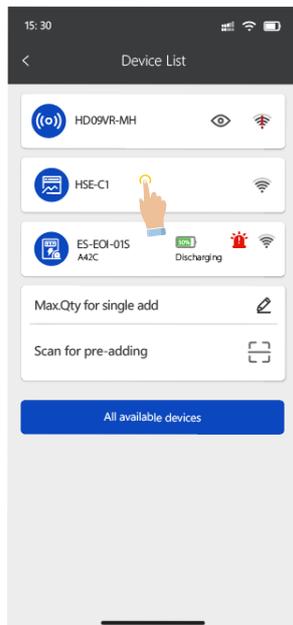
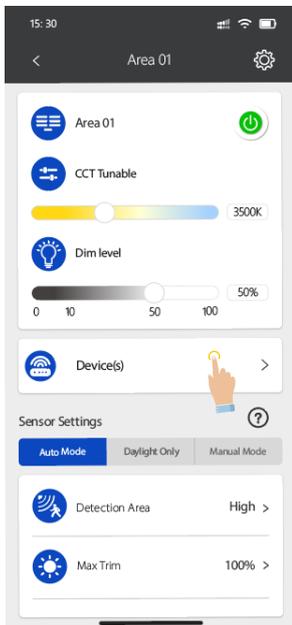
When you need to obtain the operation reports of the emergency battery backup regularly, click "Send Report" on the area control page. Then, on the log - sending page, enter the email address for receiving the report and select the sending cycle. You can choose to send the report daily, weekly, or monthly.

Two commonly used report formats, "Excel" and "CSV", are provided. After completing the editing, click "Save", and the gateway will send the data to the corresponding email address regularly.

OTHER DEVICE

Energy Monitoring and dimming control

Choose Devices to enter into device list, find the HSE-BC1 as the Bluetooth controller, enter to change the electric data or edit it manually.



Press this area to receive electric parameters or get them updated manually.

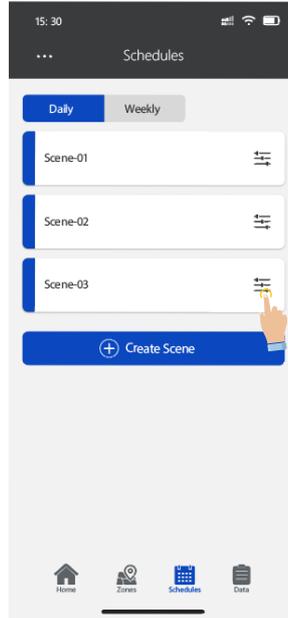
SCHEDULES

Scene

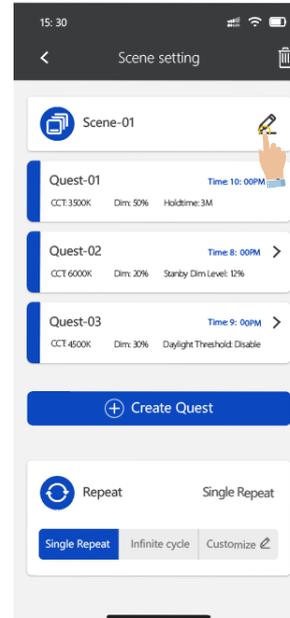


Press **“Create a new scene”** button.

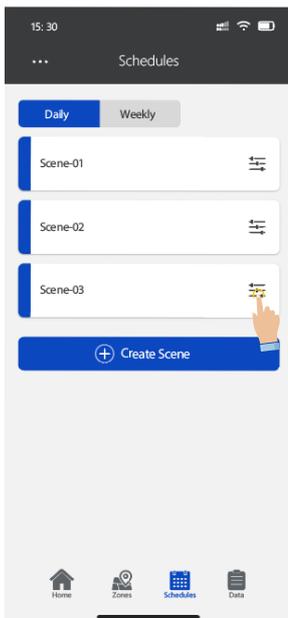
Rename a scene



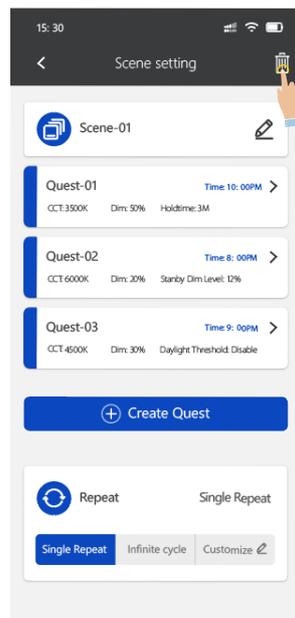
Choose the scene, press the **“Edit”** icon to edit its parameters then save it.



Delete Scene



Press edit icon of the scene



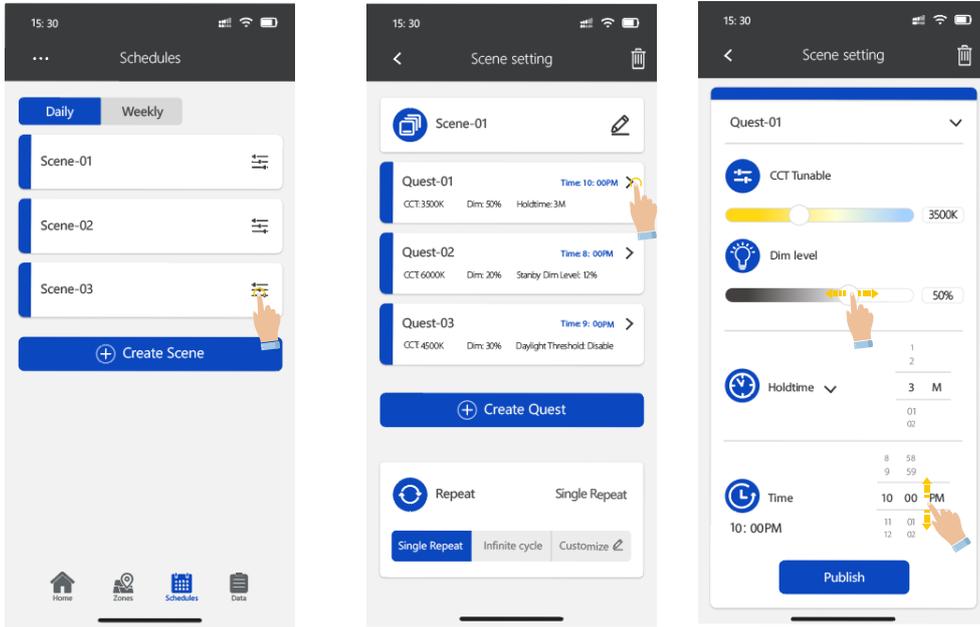
Press the **“Delete”**.



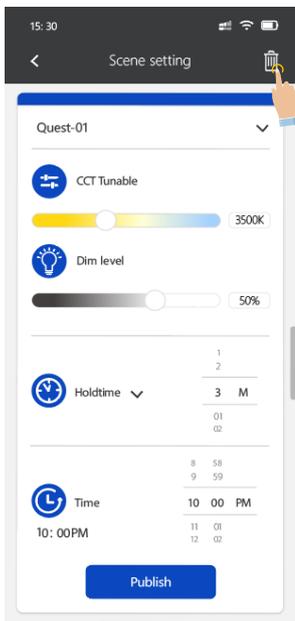
Press confirm.

Edit the scene task

Press the setting icon of a scene, enter into the scene program page and add a mission, choose the needed parameters, then device will automatically perform the mission at required time. Mission works as daily cycle.

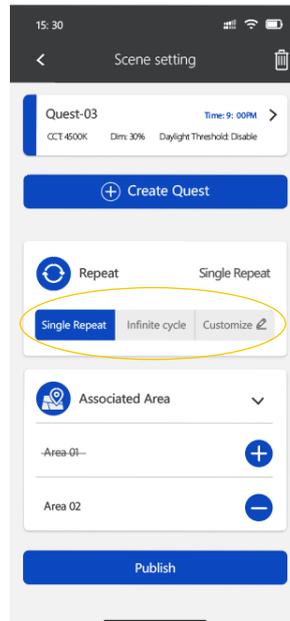


Delete scene task



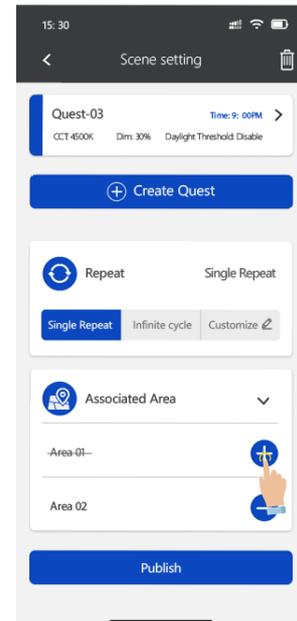
Press the top right rubbish can icon to delete the current scene.

Scene looping



Slide the page, to choose cycles for the scene, as single, multiple or self-decided.

Scene association zone



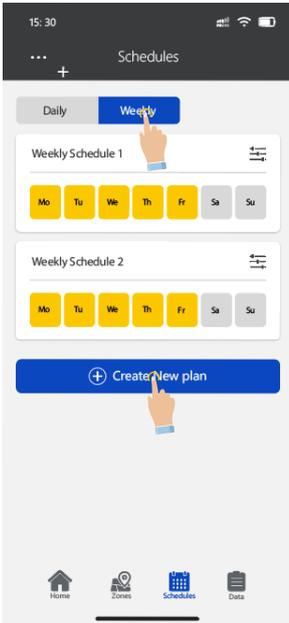
Press the "+" button to add the zones into this scene, so devices in the zone will perform the same settings.

WEEKLY PLAN

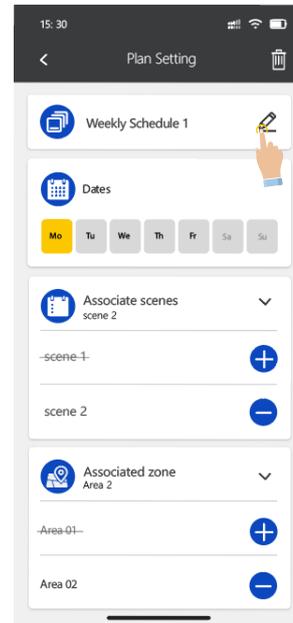
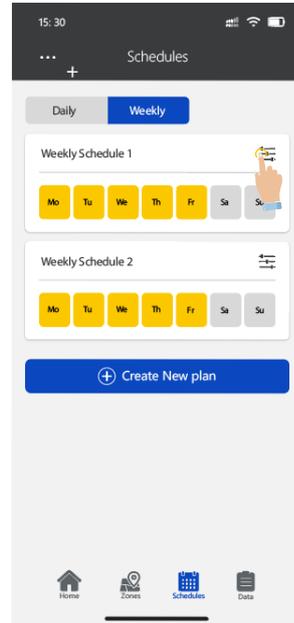
Edit the scene accordingly from Mon to Sun, they can be different tasks for each day or repeat one day work.

Highlighted yellow days means with tasks, gray color means no tasks.

Create weekly plan

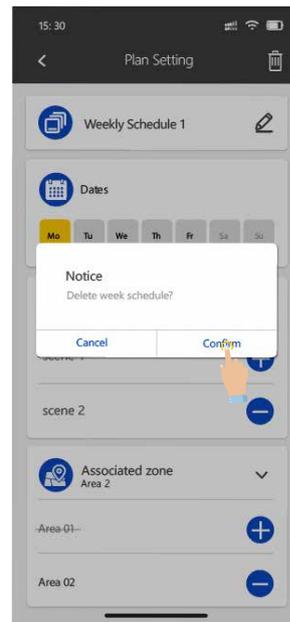
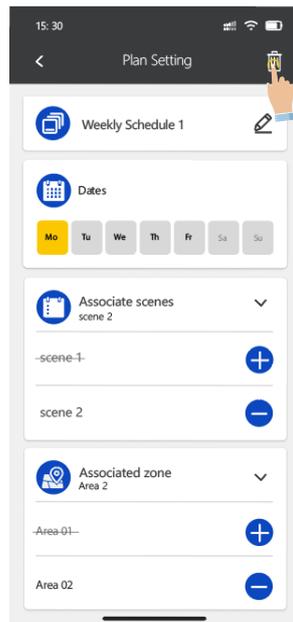
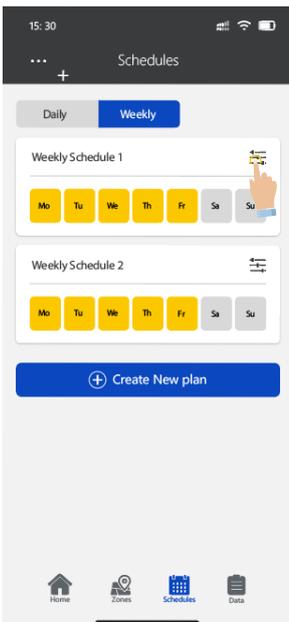


Edit a weekly plan



Choose the “weekly plan”, press the setting icon, insert weekly plan name, then confirm it, you will have a brand new weekly plan.

Delete weekly plan

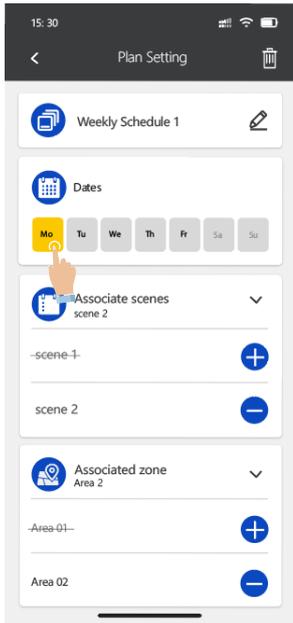


Choose the setting icon

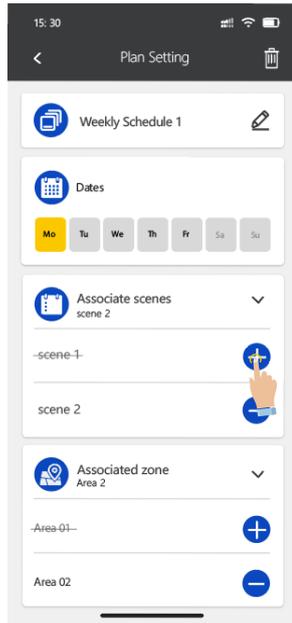
choose the rubbish icon on the top right corner to delete

Press confirm to delete this weekly plan.

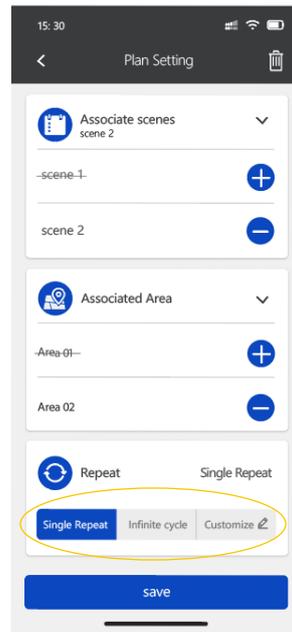
Editor Weekly Plan



Enter into the weekly setting page and choose a day.



Associate another day plan.



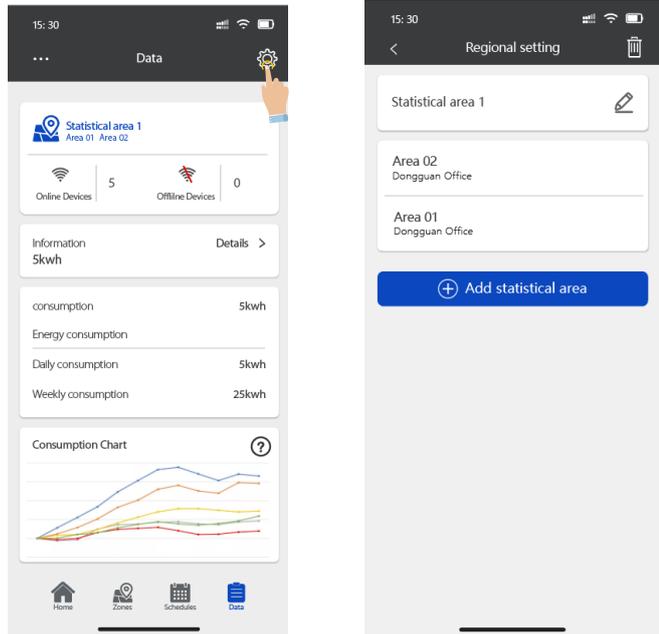
Choose repeat cycle.

DATA STATISTICS

On Energy monitoring page, press setting icon on top right corner to receive the data statistics.

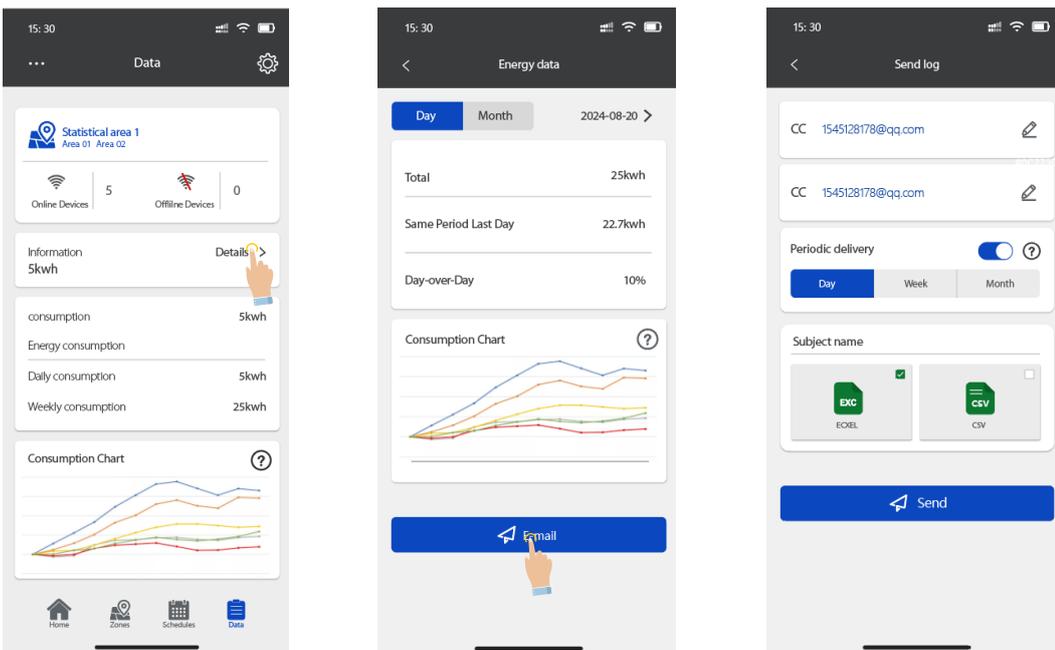
Statistical locale

Press the pencil icon to edit the area information, change the name, add more devices and etc. then press confirm to save.



Energy monitoring report regularly sent

Choose to enter into information details, can check the real-time information; down the page you will see the "email" button, press it then fill in the mail address, turn on the cycle button as "daily, weekly or monthly", then choose a needed format as "excel" or "CSV", then press send. You will receive the monitoring report as required.

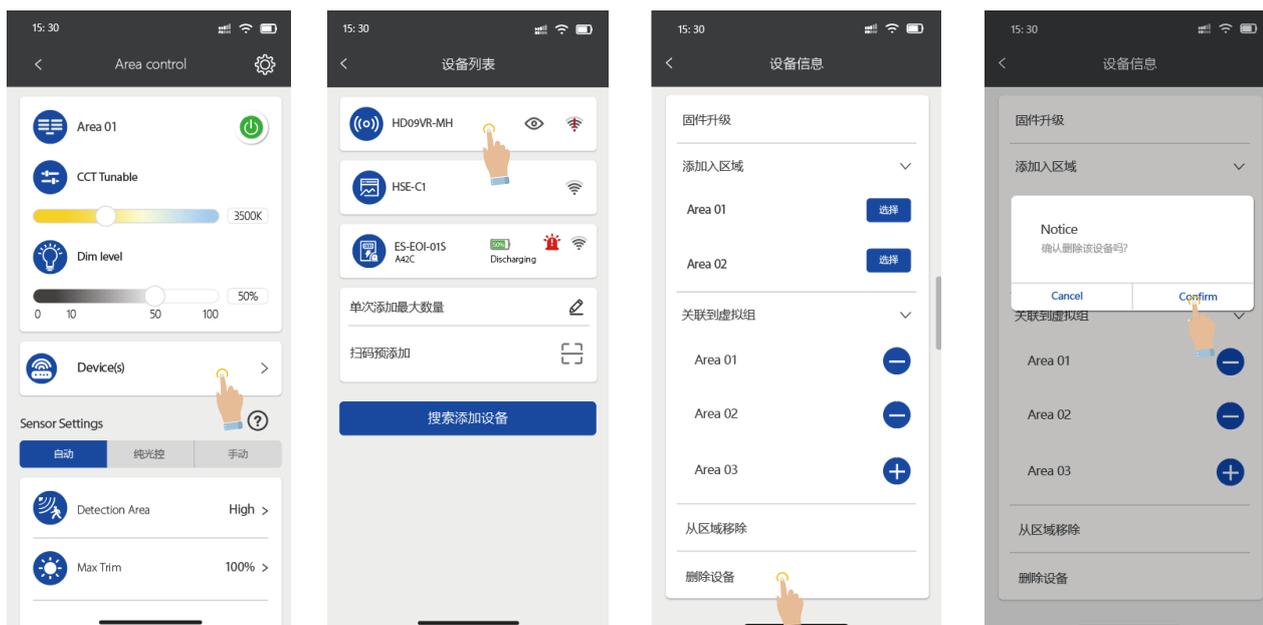


RESTORING FACTORY SETTINGS

There are three ways to restore factory settings for the devices. (Some ways are suitable for some devices)

Restore By Deleting device on line

The first way is by deleting devices from the APP. This is the easiest way. When finished testing, must delete the devices online. (After deleting the lights on line, wait for a while to ensure all devices is deleted successfully. Then you can refresh the “Device information” interface to see there’s still some devices.)



Reset By remote control

Reset by remote control

Press “reset” button, instruction light starts blinking means reset successfully.

This is the most efficient and easy solution to delete the connected sensors.



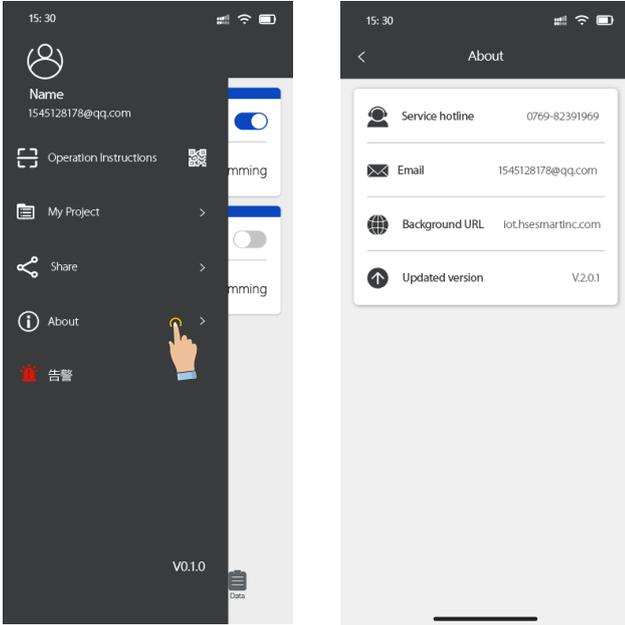
Restore By Power Reset (Not Recommend)

Operation steps:

1. First time get it powered, instruction light ON, wait for 20S.
2. Continuous operations: turn off power input for 30S, turn on 2S, repeat it more than 5 rounds; see instruction light blinking means reset successfully.

ABOUT

Press "About" if you have any questions or need to log into the webpage, you will find our service hotline, email address and background URL, we will serve you immediately once received your request.





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Light up ease, control with wise.

