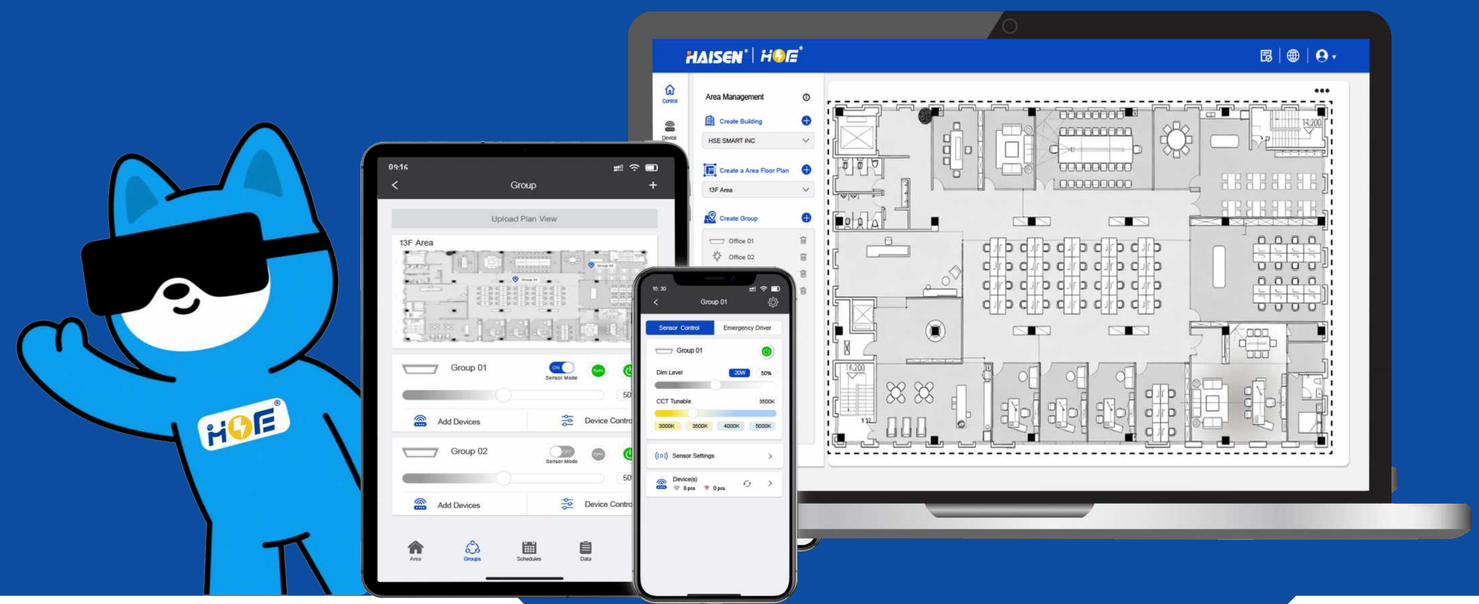
Network Lighting Control App
Instruction Manual

www.hsesmartinc.com



0% loss of Bluetooth address after endurance testing per IEC 62384

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CATALOGUE

Introduction

The HSE WISE app allows 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, which are characterized by low power consumption and a self - healing, self - expanding network. With a communication range of up to 130 feet, and in some cases, 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.

*All products under the HSE system come with an official 5-year warranty. We stand by our commitment to solid quality and provide reliable after-sales support for your peace of mind.

To download the HSE WISE APP, scan the QR code on the right side, which corresponds to the type of smartphone/tablet that will be downloading the APP:

Download on the App Store

GET IT ON Google Play

Standalone System

Designed to handle large - scale device networking and management, the HSE WISE Bluetooth system is an efficient and flexible solution for intelligent lighting and occupancy behavior control. The system enables convenient configuration and control of devices via the HSE WISE App, facilitating seamless operation across multiple areas, nodes, and groups.

Capacity Limits

The following table shows the capacity limits of the HSE platform

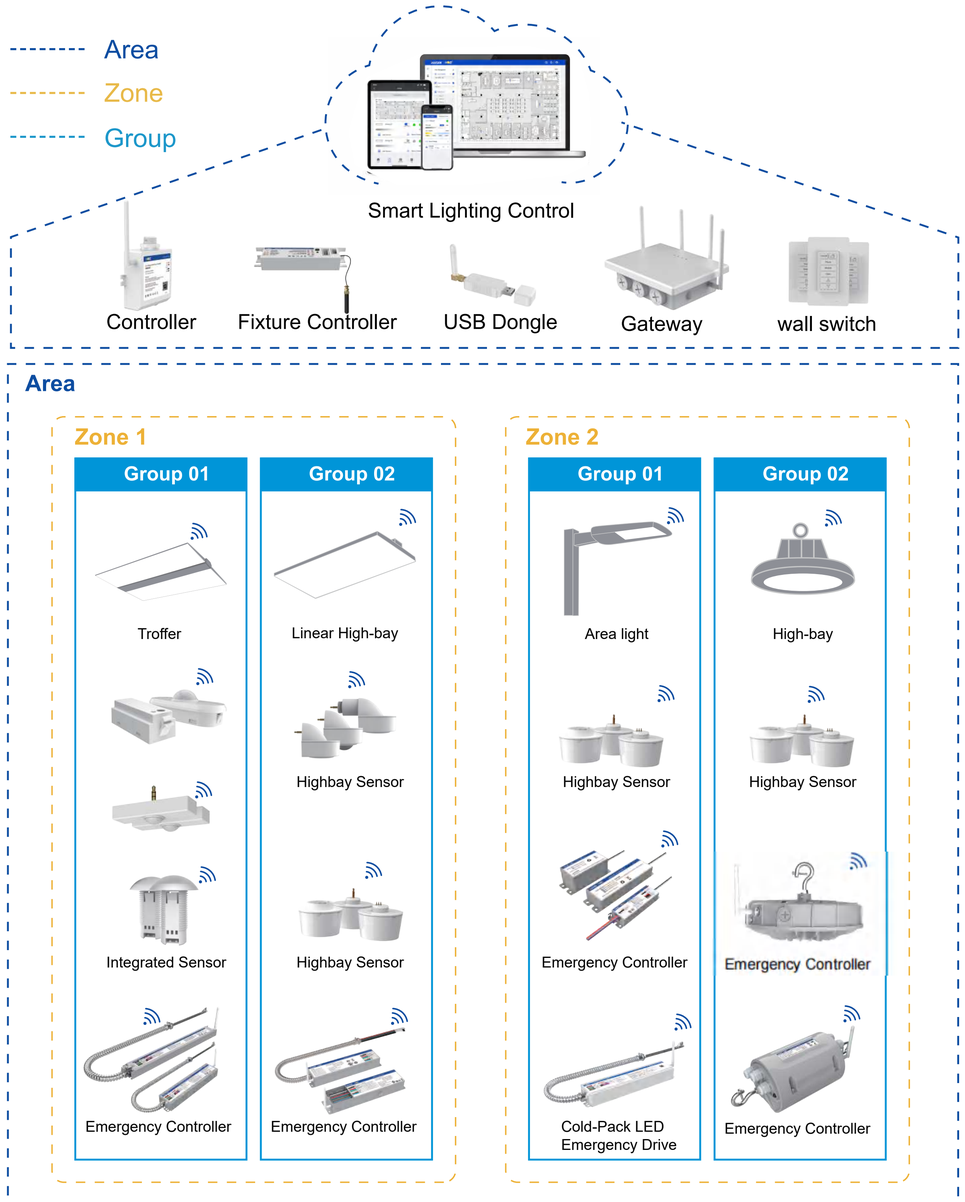
Hierarchy	Capacity Limit
Buidling	A maximum of **100,000** buildings can be created.
Area	Each building can create up to **100** areas ,Each area can connect up to **500** nodes.
Group	Each group can connect up to **100** nodes.

* It is recommended to limit the number of connections per Group to 100 to ensure stability. Exceeding this number may affect system performance.

Recommended Parameter Settings for Different Space Types

Suggested settings for each zone type

Scene	HoldTime	Standby Period	Max Trim	Stanby Dim Level	Daylight Threshold
Office	**20min**	**2min**	**80%**	**30%**	**Disable**
Classroom	**45min**	**5min**	**80%**	**20%**	**Disable**
Corridor	**1min**	**∞**	**70%**	**20%**	**5Fc (50Lux)**
Warehouse	**10min**	**10min**	**90%**	**30%**	**20Fc (200Lux)**



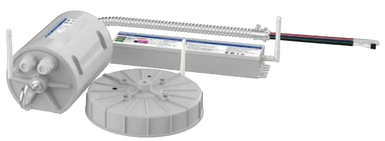
Typical System Components

Integrating multiple key components, the system offers an efficient, energy - saving, and safe lighting solution. Featuring dynamic sensing, automatic adjustment, and emergency response, the system significantly enhances the reliability, comfort, and energy management efficiency of the lighting system. This solution is particularly suitable for the intelligent lighting needs of industrial and commercial public spaces, offering both convenience and environmental friendliness.

The system is built with the following components:

Motion Sensors

The HSE integrated sensors encompass infrared sensors, ultrasonic sensors, and other types. Different types of sensors are suitable for different scenarios, providing intelligent lighting management and enhancing the user experience.



Emergency LED Driver

The HSE Emergency LED Driver offers temporary LED Driver, ensuring the lighting system can keep operating during power outages, thereby enhancing the system's reliability and safety.

Gateway

The HSE gateway serves as a bridge between local devices and the cloud platform or external systems. It supports remote control and monitoring, provides interoperability between devices, and enhances the intelligence of the system.

Controllers

The HSE dimmer - energy monitoring enables more flexible lighting management and efficient energy control.

Wall controls

The HSE wall switch functions as a remote controller, enabling you to operate your HSE ecosystem from any location within its wireless range, ensuring reliable and secure Bluetooth communication.

Debugging Operation Guidelines

During system debugging, follow these guidelines strictly to ensure stable system operation:

1. Use a Single Mobile Device for Debugging

During debugging, use only one mobile device (phone or tablet). Using multiple control devices simultaneously is prohibited. Concurrent operation of multiple devices may cause the following issues:

- Configuration data corruption
- Luminaire address conflicts
- Control signal interference
- System status disruption

2. Ensure Data is Successfully Synced to the Cloud Before Sharing the QR Code

Before sharing the QR code, make sure debugging data is successfully synced to the cloud. Sharing the QR code grants other users access to the area. Note that data must be uploaded to the cloud before sharing.

- Each time the area is updated, the app will automatically try to sync data to the cloud if the device is online.
- If the device encounters network instability during the debugging process, causing a data upload failure prompt, it is advisable to finish the current settings first. Once the device is in an area with a stable network signal, restart the app. The system will automatically retry the data upload to the cloud, guaranteeing that all debugging data is successfully saved.
- To ensure data synchronization, manually "force sync" when the network is stable. Don't share the QR code until data is synced.

If the network connection is poor, the app will still try to sync data, but communication may be slow or fail due to connection issues. In such cases, it's recommended to turn off Wi - Fi or set the device to airplane mode, finish debugging, and sync data when the network is restored. Remember, don't share the QR code until the data is successfully synced.

3. Check and Update Firmware

During debugging, regularly check the device's firmware version. We'll push necessary firmware updates, and you can update it in the device's firmware section. Ensure the device runs the latest firmware for optimal performance and system compatibility.

Commissioning

Registration

Purpose

Only registered users can set up and configure the lighting system (debugging and configuration) through the HSE WISE application.

How to

1. Download and Install the HSE WISE App:

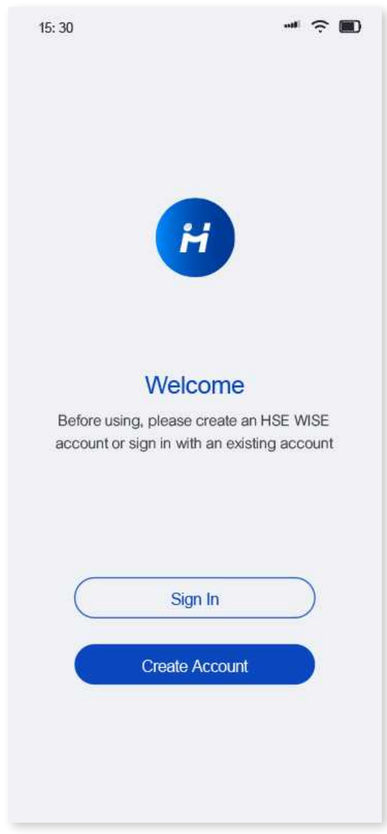
- Go to the App Store (for iOS users) or Google Play Store (for Android users).
- Search for the HSE WISE app and click "Install" to download it.

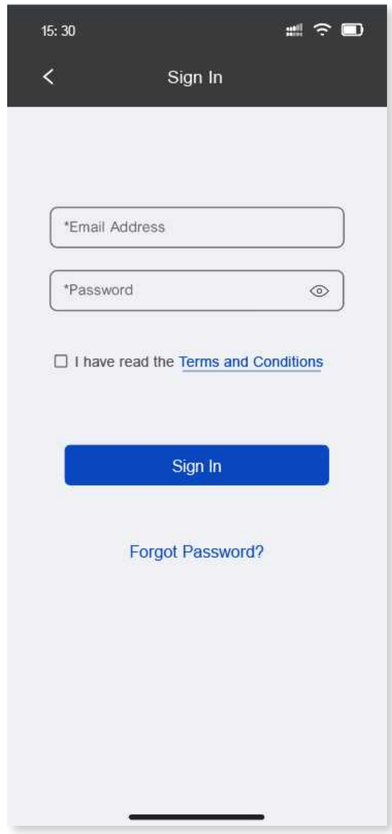
Download on the App Store　　GET IT ON Google Play

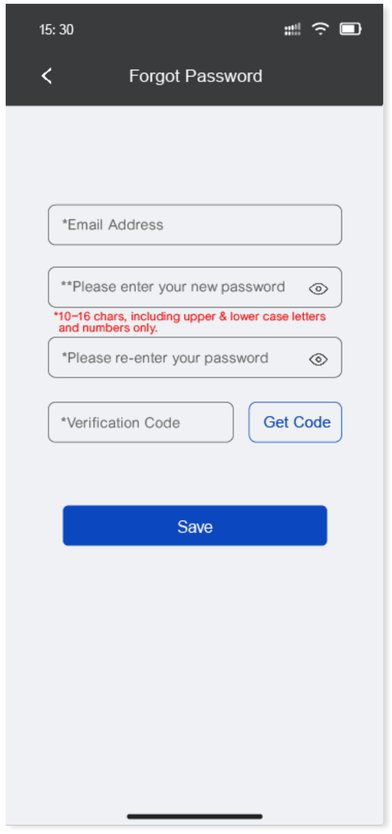
2. Register Your Account:

- When you first open the HSE WISE app, you will be prompted to register using your email address.
- Enter a valid email address and follow the on - screen instructions to complete the registration process.

* Password setting requirements: The length should be a combination of 10 to 16 characters, including at least one uppercase character and one lowercase \ character.







Sign in & Forgot Password

Purpose

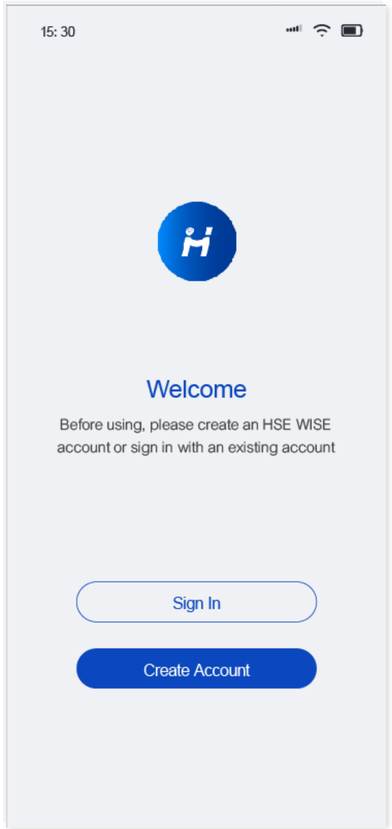
Only registered users can set up and configure the lighting system (debugging and configuration) through the HSE WISE application.

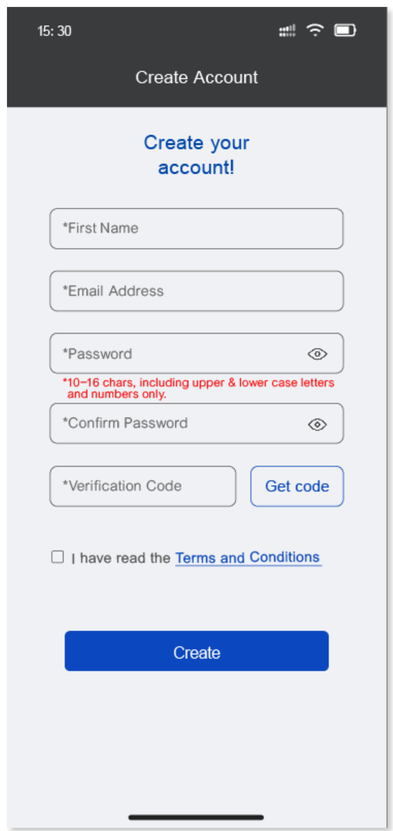
1. Login:

- After registration, log in with the email and password you set.
- Once logged in, you will have full access to set up and configure your lighting system.

2. Forgot Password:

- On the APP login page, click the "Forgot Password" option and enter the email address used during registration.
- The system will send an email containing a verification code to this email address. Follow the prompts to set a new password.

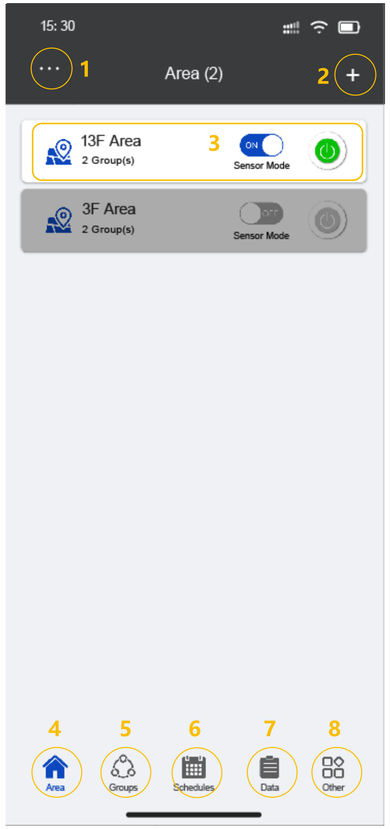




Main Interface Overview

Purpose:

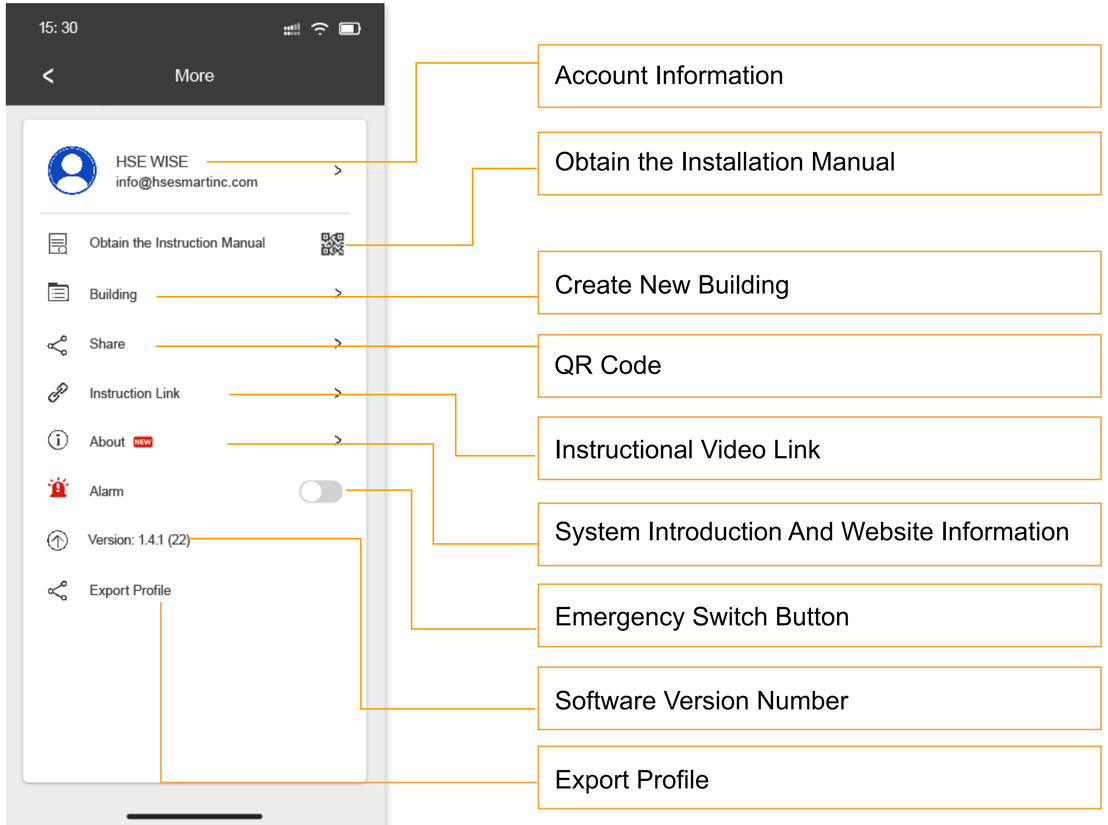
Only registered users are granted access to set up and configure the lighting system using the HSE WISE App.



Main Interface

Function Description

1. Access More features through **"…"**
2. Add an area through the **"+"** button
3. Area List: Allows quick on/off control of lights for the entire area, as well as enabling or disabling the motion sensor mode.
4. **"Home"** page showing all the existing building areas, users can check and edit the current areas.
5. **"Groups"** page allows users to add groups or devices and control the devices.
6. **"Schedules"**page allows users to manage existing scenes or weekly plans and create new ones.
7. **"Data"** page allows users to check timetable, energy consumption statistics and send out report.
8. **"Others"** Page: For managing additional control accessories like gateways, controllers, wall switches, USB Dongle.

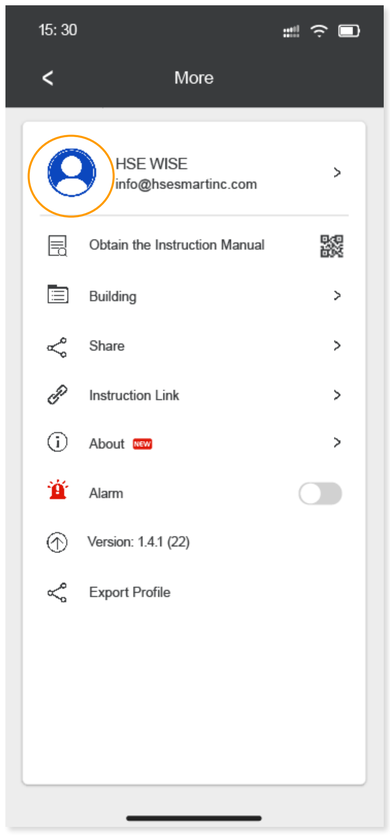


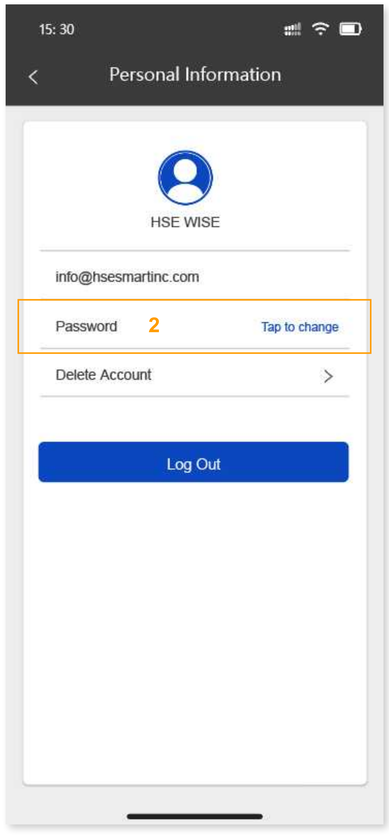
More Features

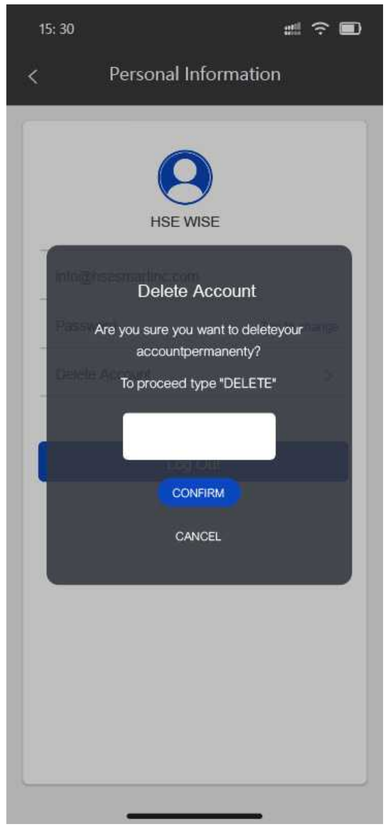
User Information

Purpose:

Designed to display and manage users' personal information (such as name, email, account settings, etc.)







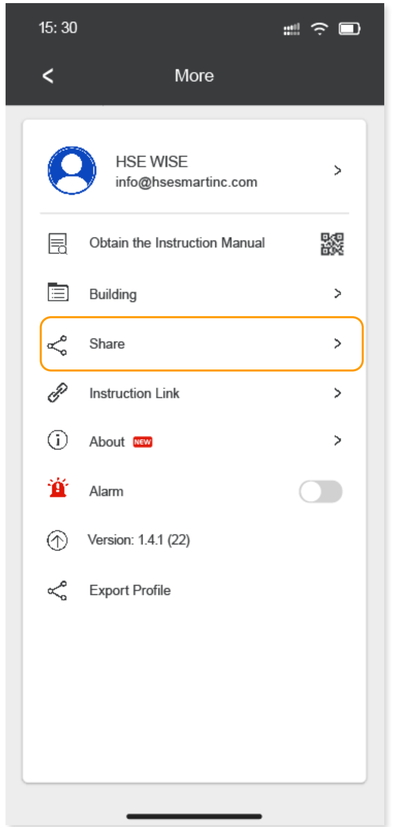
How to:

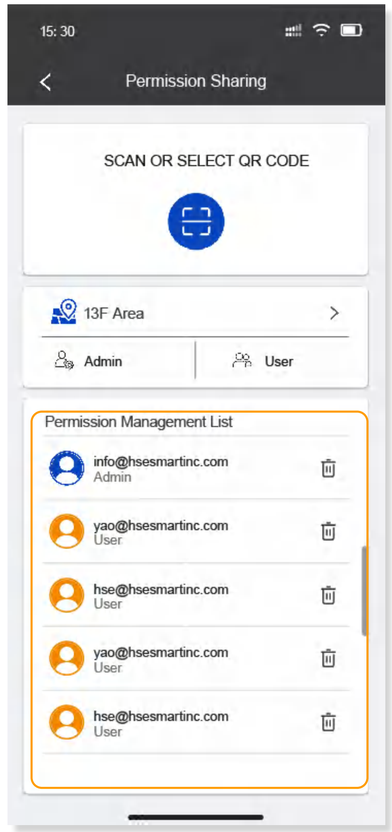
1. Click the profile icon at the top to navigate to the account information page.
2. Tap **"Tap to Change"** to reset the account password.
3. Tap **"Delete Account"**, confirm the pop-up prompt to permanently delete the account.
4. Tap **"Log Out"** to sign out of the account.

Scan QR code

How to:

When creating a new building, simply tap **"Admin"** or **"User"** on the interface to automatically generate the corresponding Administrator or User QR Code, which can then be scanned by others or downloaded for sharing.





Remarks:

User Permissions:

- ***Device Control:*** Device connection, network configuration, dimming and CCT adjustment, manual sensor activation, group parameter setting, daily/weekly schedule operation, power and battery level check.
- ***Permission Restrictions:*** No area management or floor plan management permissions; Cannot share permission QR codes; Can only operate on authorized Groups and devices; No permission to create, delete, or modify hierarchical structures such as Building, Area, Zone, and Group.

User Permissions:

- ***Device Management:*** Device connection, network configuration, dimming/CCT adjustment, power/ battery level viewing, manual sensor activation, group parameter setup, daily/weekly schedule operations
- ***Area Management:*** Area renaming, deletion; Zone and Group addition, deletion, and modification.
- ***Floor Plan Management:*** Upload Area floor plans.
- ***Permission Restrictions:*** No permission to delete or modify Building.

Note: For security reasons, the generated QR code is valid for 24 hours and can only be used once within this period. Otherwise, the QR code needs to be regenerated.

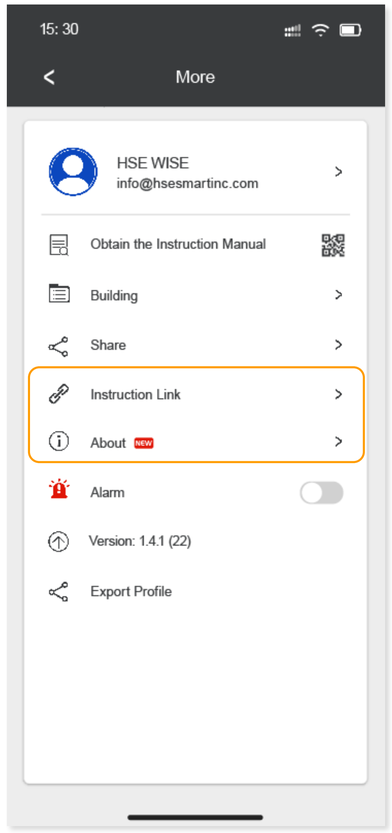
Permission Management List:

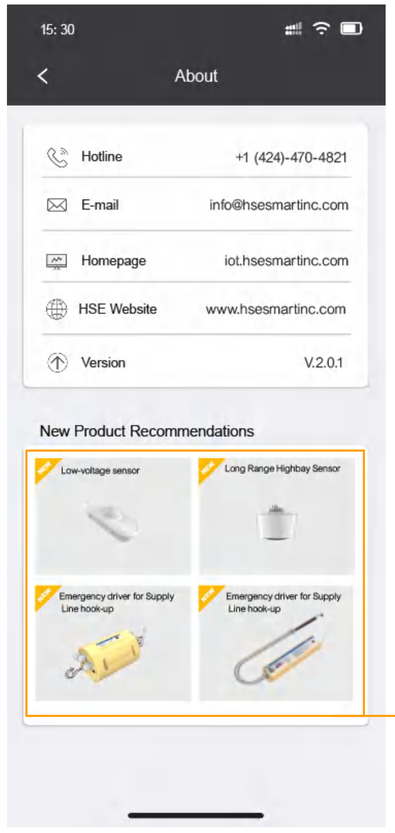
In the user management list, you can check the specific information of shared users and also perform user deletion management operations.

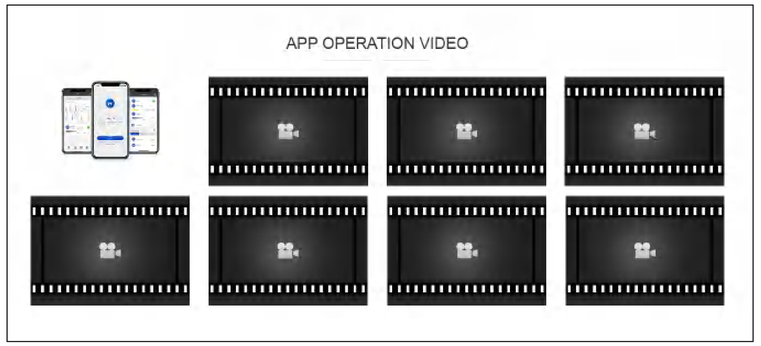
Instructional Video Link & App Info

Purpose:

To help users quickly understand the HSE WISE App and its operational features.







You can access the instructional videos by clicking the following link:

https://www.hsesmartinc.com/Resources.html

New Arrivals

Below are the newly arrived devices. Tap for more details.

Emergency Switch Button

Purpose:

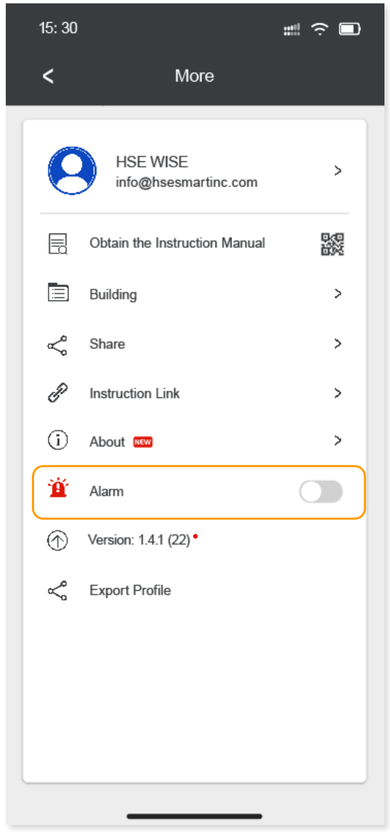
The emergency switch button is designed to quickly activate the lighting system in emergency situations, ensuring that users have adequate lighting in the event of an emergency (provided the main power supply is not interrupted), thereby safeguarding safety. This button offers a convenient manual control option, allowing users to activate the lighting system with a simple press, helping to prevent potential safety hazards during emergencies.

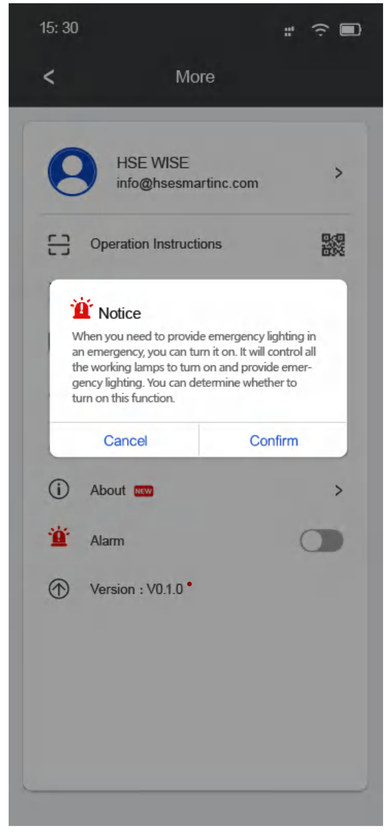
How to:

Tap the button next to"Alam". A confirmation prompt will appear. Confirm to activate the function.

Version update：

When a new version is detected, a red dot prompt will appear next to the interface version number. Click it and follow the pop-up instructions to complete the update.

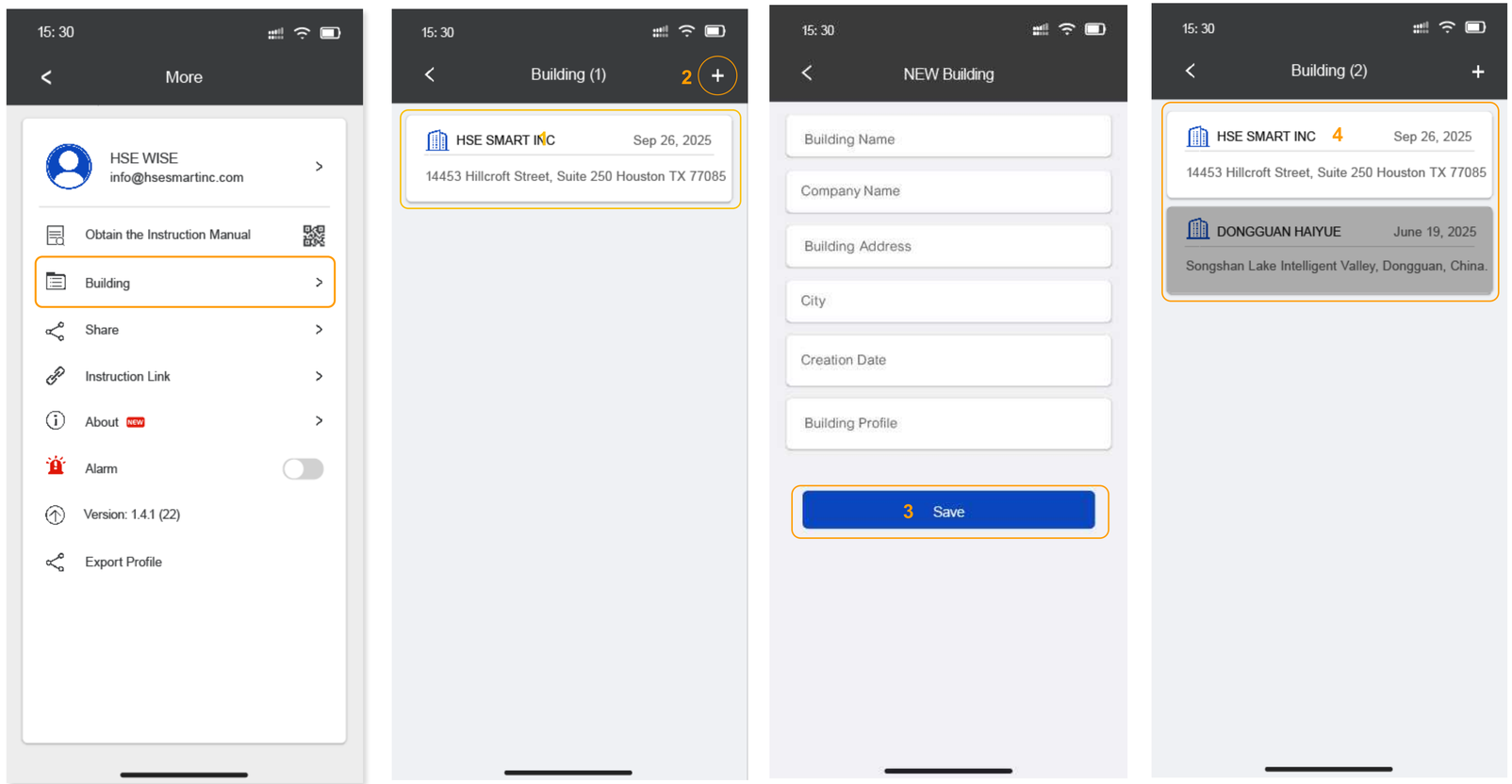




Create New Building

Purpose:

Creating a new building enables users to set basic building information, plan area functions, and assign groups for section management. This offers flexible management, allowing for personalized configurations based on different area and group needs.



How to:

1. Press **"Building"** to access the Building Management Settings interface.

2. Press **" + "** to create a new building.

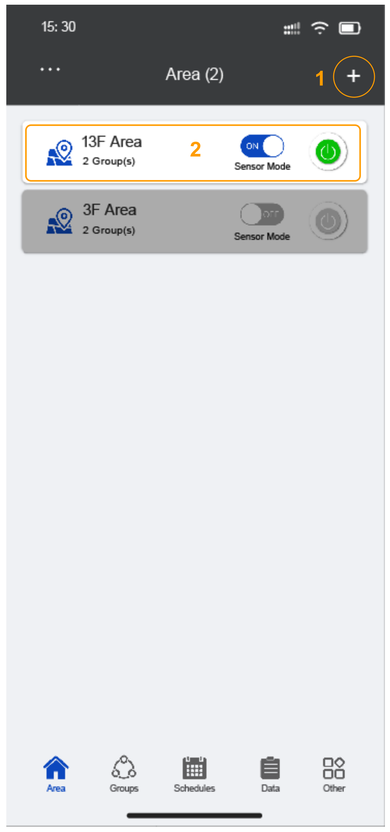
3. Fill in the prompted required information and click **"Save"** to display the building information in the list.

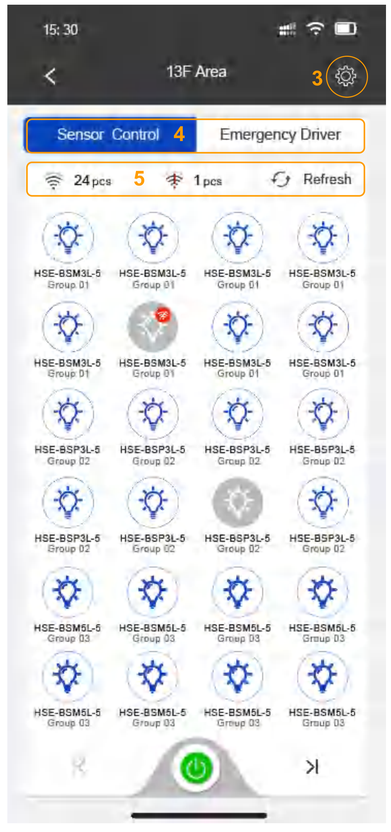
4. Created building information will be displayed in the Building List in order (Currently selected one is highlighted, unselected ones are gray).

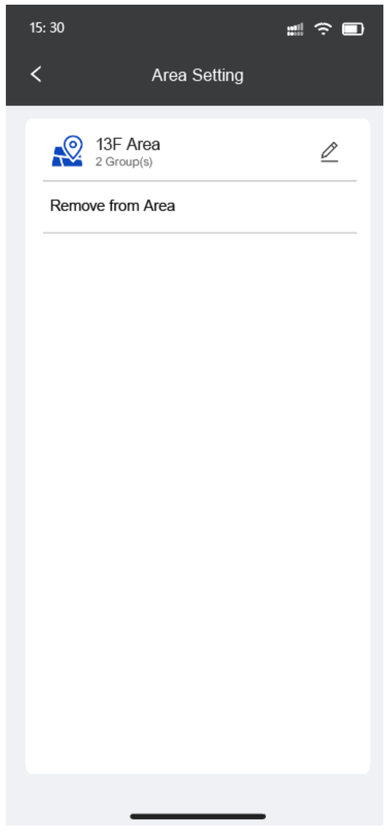
Area Control

Purpose:

Creating a new area enables users to define functions for different area and groups, assign groups to manage sections, and quickly adjust lighting devices in the specified area.







How to:

1. Press " + " to create a new area.
2. Quickly turn on/off all light in the area and start/stop sensors; tap the blank area of zone information to enter the single-device control interface for all nodes.
3. Press " ⚙ " icon to rename the zone or delete its settings.
4. Used for switching between sensor control and emergency power settings.
5. Displays device online/offline status, and is equipped with a refresh button (tap to update device status).

Device Status Icon Description:

Sensors

ON OFF Offline

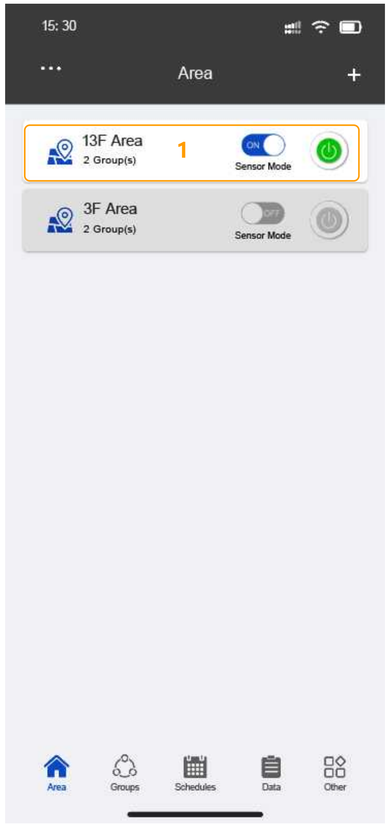
Emergency Driver

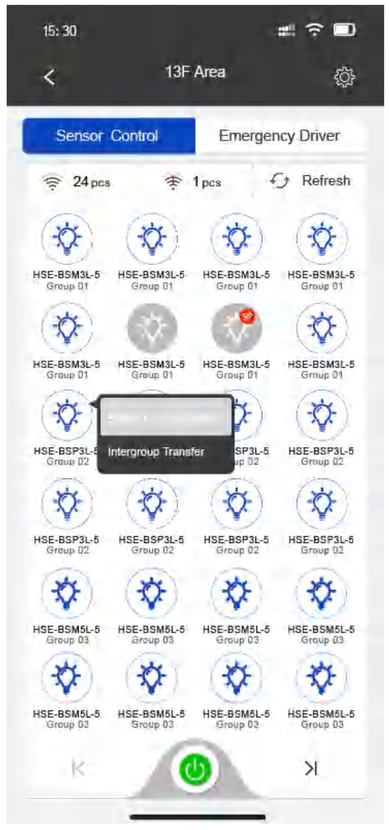
Online Offline Fault

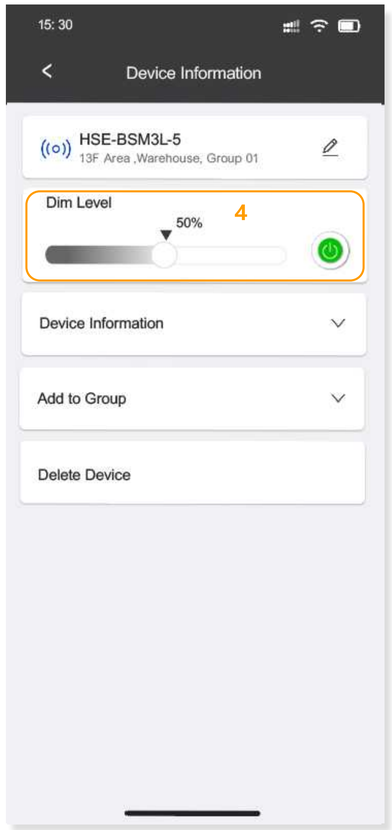
Area Control (Single - device Control)

Purpose:

Using the main page for single - device independent control, allow users to conveniently, precisely, and flexibly carry out independent control of a single lighting device.







How to:

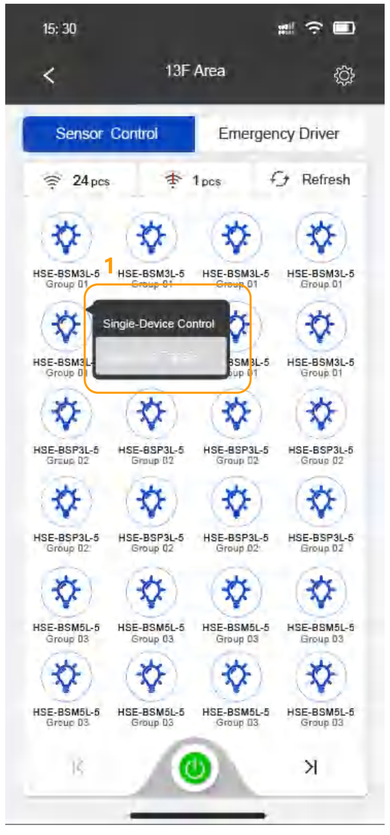
1. Tap the blank area of zone information to enter the single-device control interface for all nodes.
2. Press the " " icon for quick device location. Gray indicates the device is off, and blue indicates it is on.
3. In the corresponding device type list, long-press the target device icon until the action menu appears, then choose **"Single-Device Control"**
4. Adjust device parameters as needed (e.g., on/off, brightness, CCT mode) in the single-device control interface to complete independent control.
5. You can control the on/off of all devices in the entire area via the master switch at the bottom.

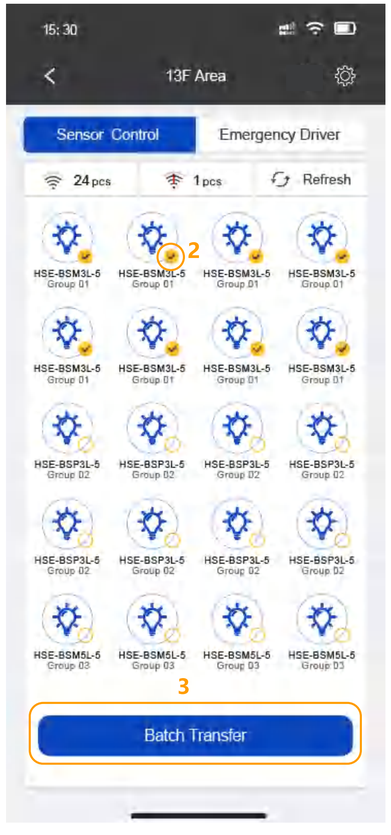
Note: Depending on the device type, devices that only support dimming have only brightness adjustment functions, while devices with color temperature adjustment functions can control both brightness and CCT.

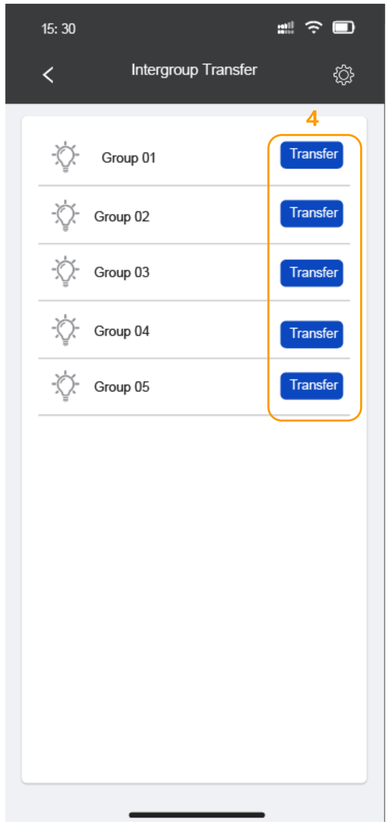
Intergroup Transfer

Purpose:

The "Intergroup Transfer" interface enables users to efficiently transfer multiple devices between groups, enhancing the convenience and transparency of device management operations.







How to:

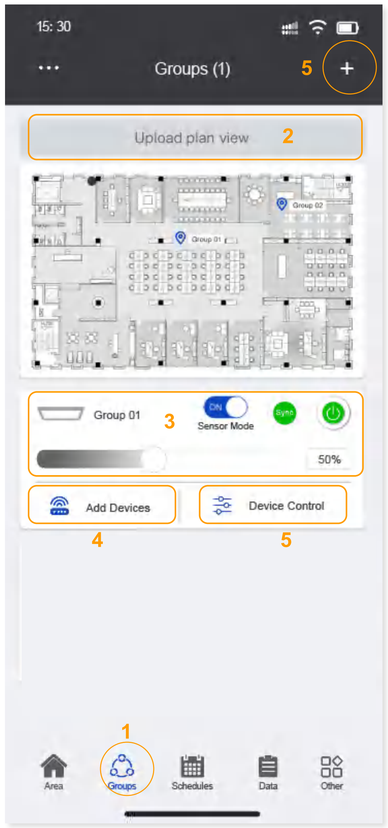
1. Long-press the icon of a single device, select **"Intergroup Transfer"** from the pop-up options.
2. Press the " ○ " icon next to the corresponding device icon to manually select the target devices.
3. After completing the selection, press the **"Batch Transfer"** button.
4. Select the target group for device transfer from the dropdown list, then tap **"Transfer"**. A pop-up will appear indicating the transfer progress; once the pop-up disappears, the transfer is complete.

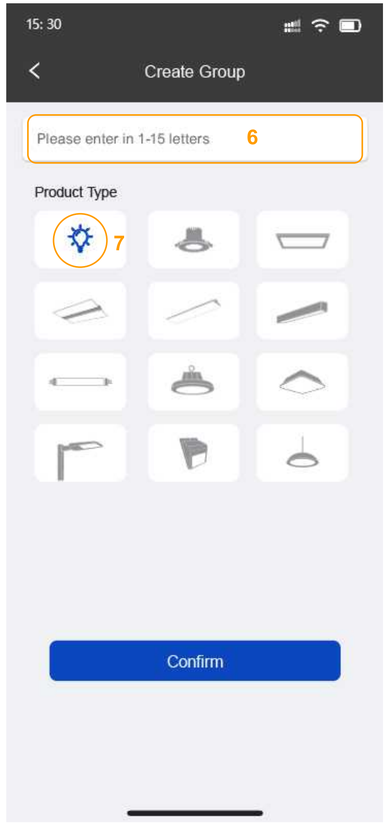
Note: The maximum number of devices that can be transferred in a single batch is 100.

Groups Control

Purpose:

Users can group similar lighting devices within a area to set precise lighting functions by product category. This allows flexible adjustment of lighting effects per group, enhancing lighting management efficiency and enabling personalized control for specific usage needs.





How to:

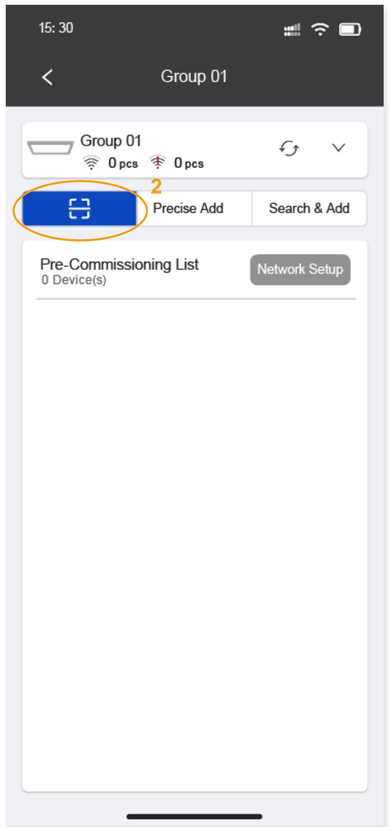
1. Switch to the **"Groups"** interface via the bottom navigation bar.
2. Upload the designed device layout diagram.
3. You can quickly control all devices in the group: turn on/off sensors, enable/disable intra-group synchronization, and control device on/off and brightness adjustment.
4. Press **"Add Devices"** to enter the device addition operation interface.
5. Press **"Device Control"** to enter the control interface.
6. Press **" + "** to create a new group.
6. Enter the group name.
6. Select the lighting product type and confirm creation.

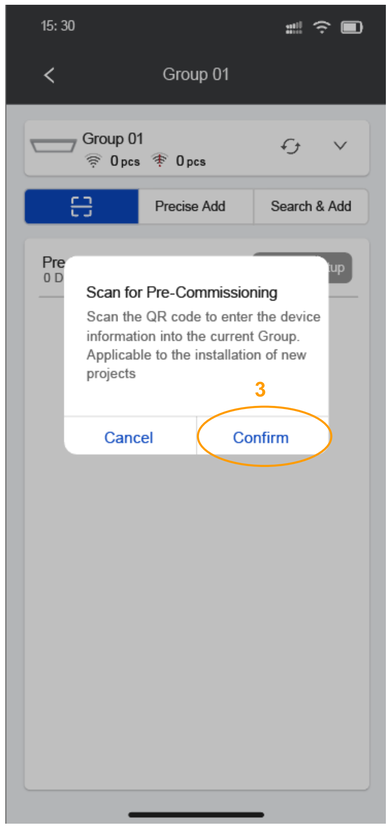
Device Addition Methods

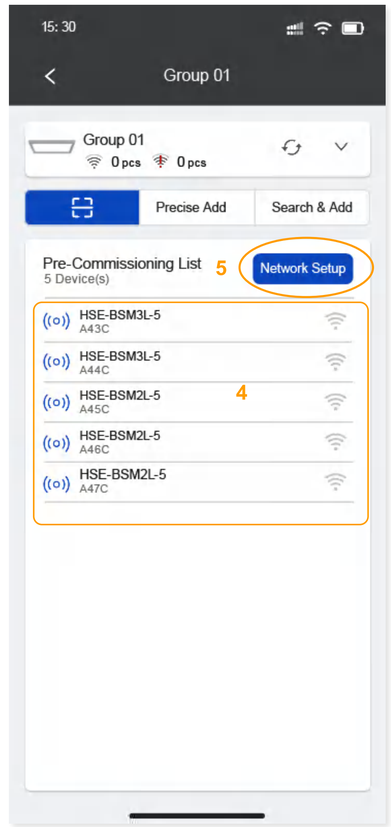
Pre-provisioning

- High-efficiency batch deployment suitable for new projects (e.g., commercial buildings, parks).
- Pre-planned network structure ensures consistency in device grouping and control logic.

*Prepare the floor plan, plan the positions of the lamps, and stick the device QR code of the corresponding sensor to the corresponding position on the floor plan.







How to

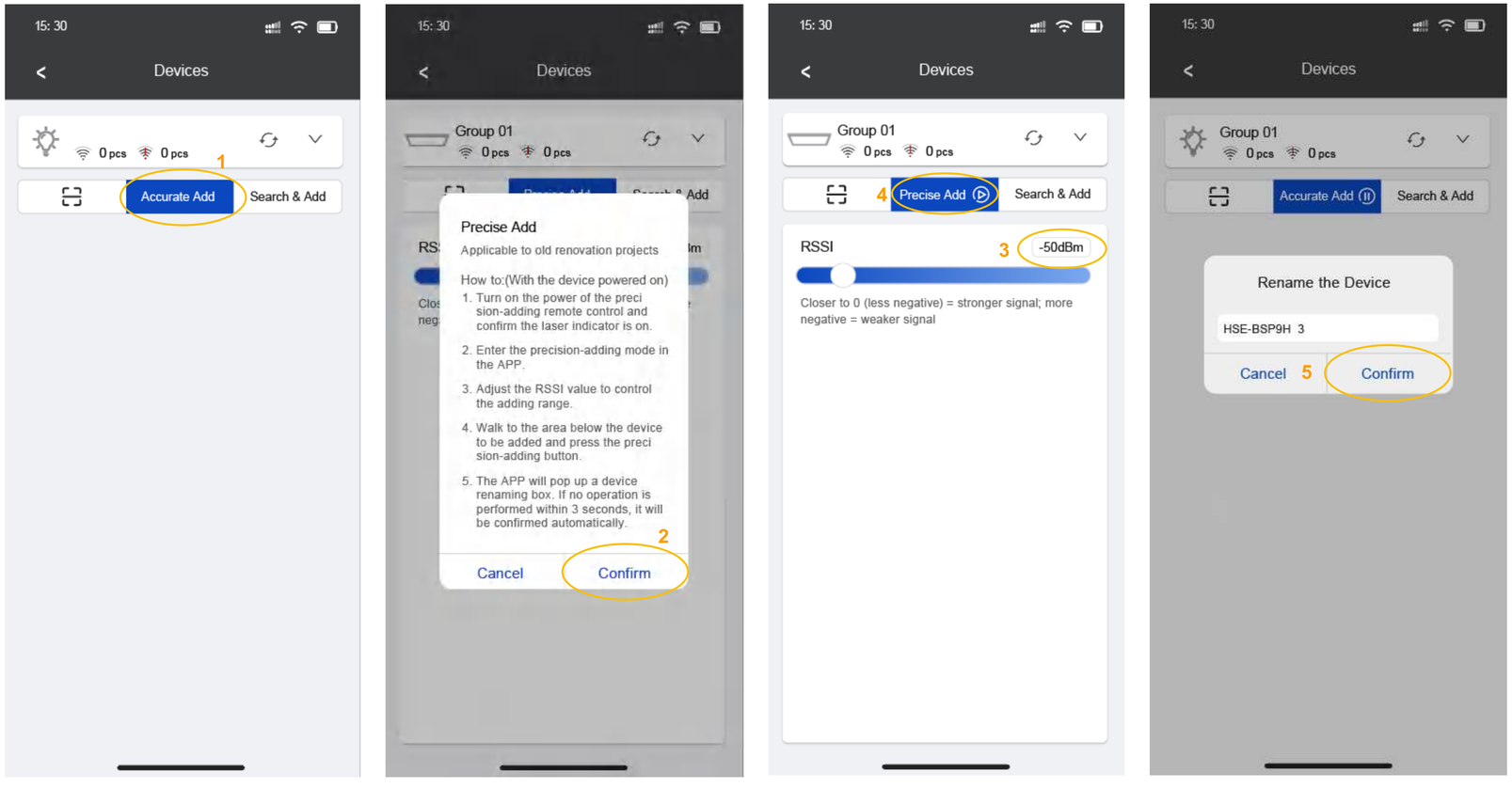
1. Press "Add Devices" to enter the Add Device interface.
1. Press the" " icon to bring up the operation instructions for this function.
2. Press the **"Confirm"** button to enter the scanning interface. Scan the QR code on the floor plan to input the device information into the current Group.
3. Devices added via QR code scanning will be aut omatically displayed in the **"Pre-Commissioning List".**
4. Press the **"Network Setup"** button to bring up the operation instructions for this function; click the **"Confirm"** button to connect the devices that have been added to the group to the network.

Note: Single-device connection takes approximately 5s, while network configuration for 120 devices is expected to take only 25s.

Device Addition Methods (Continued)

Accurate Add

This function needs to be used with a laser remote control to achieve laser-precise network configuration during device addition, helping users complete the device network connection process conveniently.



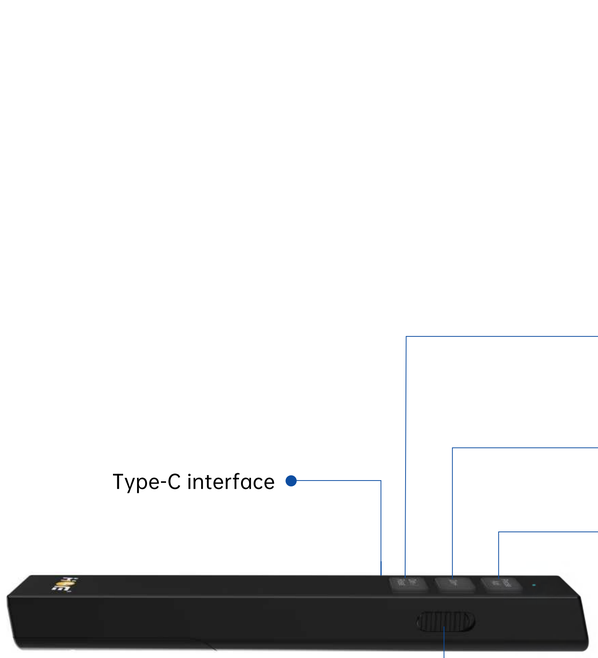
How to

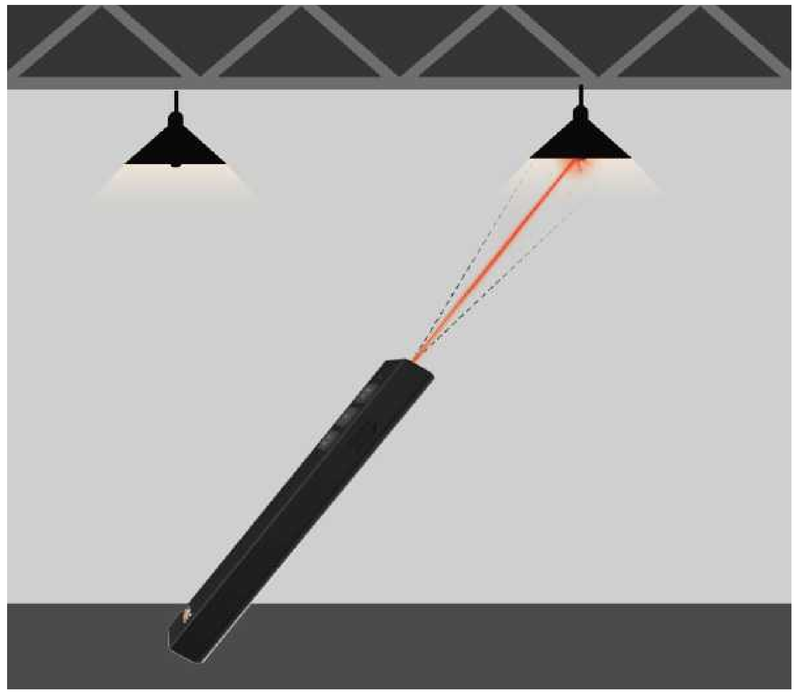
1. Press the **"Accurate Add"** to bring up the operation instructions for this function.
2. Press the **"Confirm"** button, and the device will enter the precise pending configuration state.
3. Adjust the RSSI value to control the adding range.
4. Start searching for precise add of devices. For the precise add of the remote control using a laser, aim it at the lamp to be network-configured, press **"Reset"** to make the device exit the default group and enter the network-configurable state.
5. After the corresponding device is found, the APP will pop up a renaming window. Enter a custom name, press **"Confirm"**, and the addition of one lamp will be completed.
6. Repeat the above operations in sequence to add all devices.

Device Addition Methods(Continued)

Accurate Add of remote-controlled devices

This remote control is used in conjunction with the APP to achieve laser - precise network configuration when adding devices, helping users conveniently complete the device networking operation. It is applicable to scenarios where devices need to be added and network pairing is required. It can accurately incorporate devices into corresponding groups, thereby realizing intelligent control.

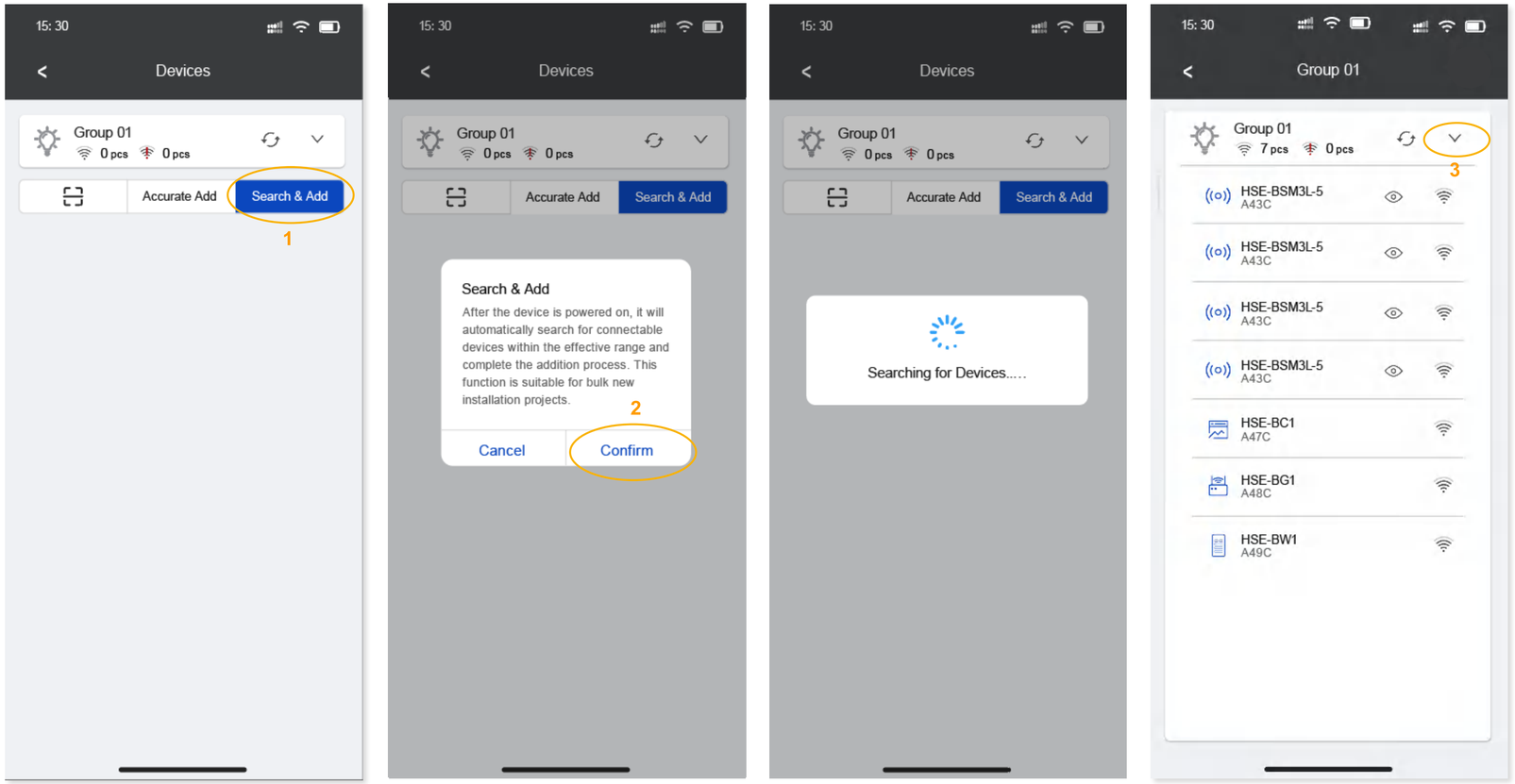




Device Addition Methods (Continued)

Search & Add

When there are multiple devices to be deployed on-site, there is no need to trigger the addition of each device one by one. Simply power on the devices, and the function will automatically search for and connect to them, quickly completing the batch network configuration.



How to

1. Press the **"Search & Add"** to bring up the operation instructions for this function.
2. After powering on the devices, Press the **"Confirm"** button. The system will automatically search for connectable devices within the effective range and add them.
3. After the device is connected successfully, the number of connected devices will be displayed below the group name. Press the drop-down arrow to expand and view the information of the added devices.

Note: Single-device connection takes approximately 5s, while network configuration for 120 devices is expected to take only 25s.

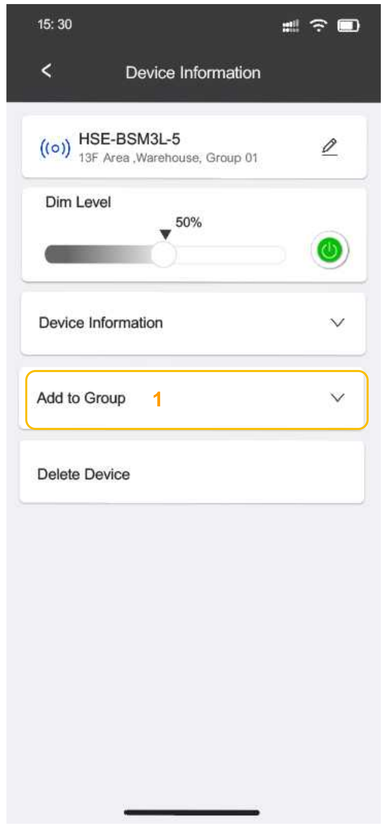
Device Addition Methods (Continued)

Intra-group Migration

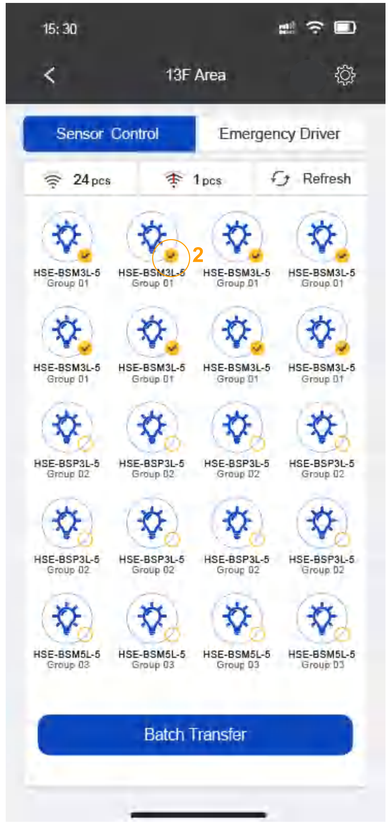
Advantages

- Supports real-time reconfiguration for scenario changes (e.g., temporary conversion of office areas to event zones).
- Intuitive mapping of device locations to groupings reduces misoperation rates through spatial visualization.

Single Device Intra-Group Transfer



Multi-Device Batch Transfer



How to

Single Device Intra-Group Transfer

On the device info page, you can perform an intra - group transfer for a single device.

Multi - Device Batch Transfer

1. From the homepage, select the corresponding building and area in sequence, then enter the **"ALL Bluetooth Node"** interface.
2. Long - press the icon of a single device. In the displayed device list, check the devices you need to transfer according to actual requirements. After finishing the selection, tap the **"Batch Transfer"** button.
3. The system will pop up a list of selectable target device groups. After choosing the group that meets your needs, click **"Transfer"**. A prompt box indicating that the device transfer is in progress will appear on the screen. Once the prompt box disappears automatically, it means the transfer is completed.

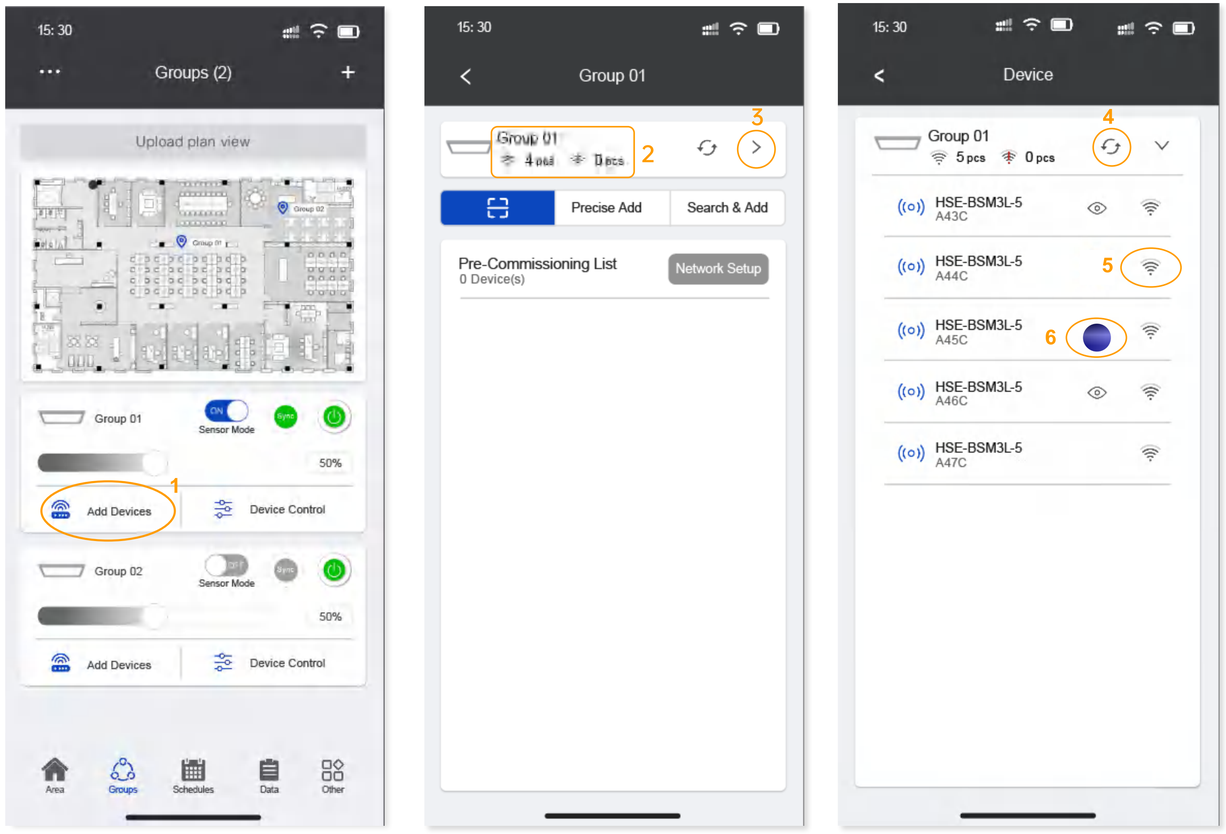
Instantaneous Effectiveness

1. Devices remain online during transfer with ≤2-second command synchronization latency (no restart required).
2. Example: Temporary addition of conference room devices to the "Event Scene Group".

Device List

Purpose:

The device list interface shows all connected devices, enabling users to check their status, type, and other details.



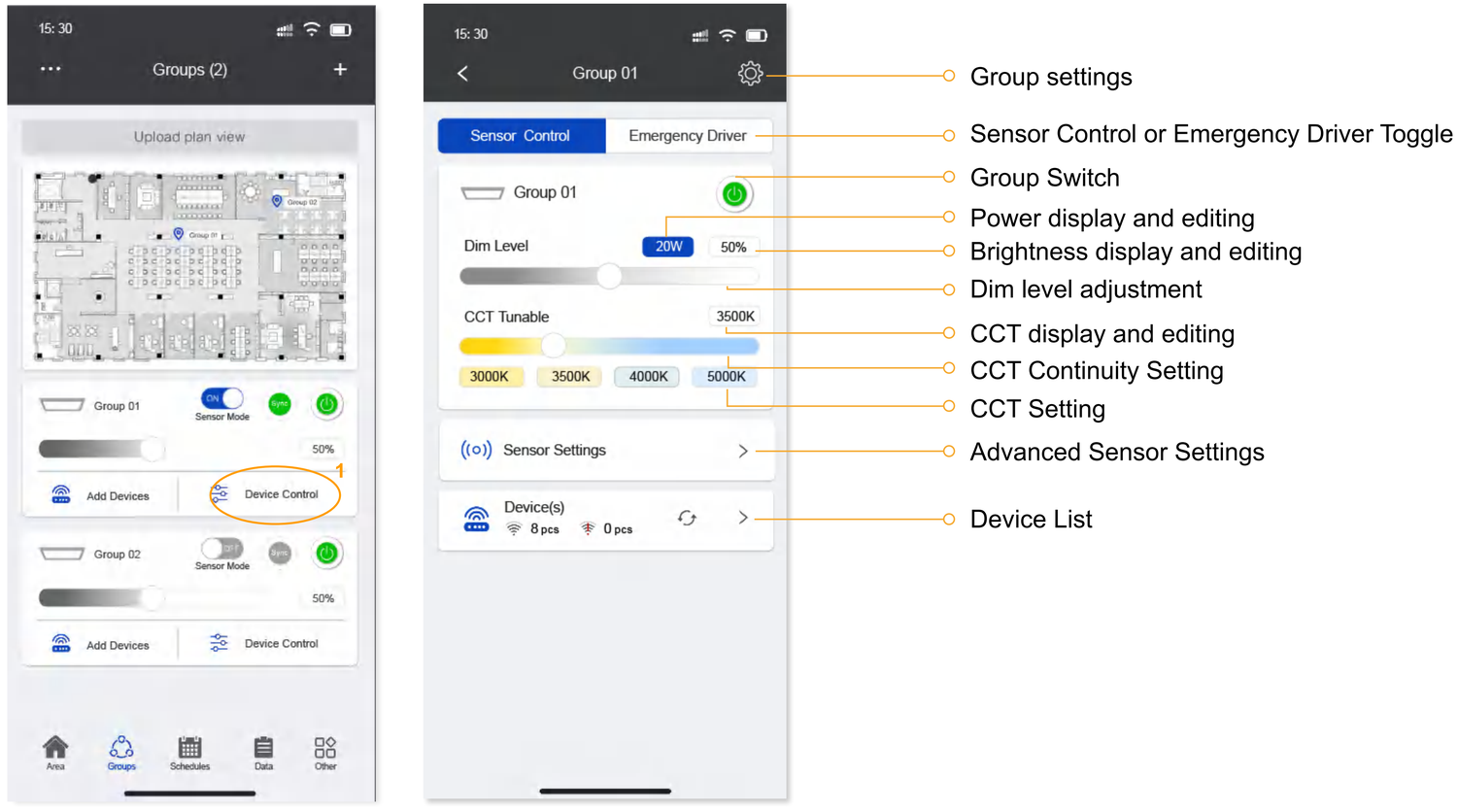
How to:

1. Press the **"Add Devices"** to enter the group device list and the device addition interface.
2. Display bar for group name and device online/offline information.
3. Press the arrow to expand the group device list and view the status of all devices in the group.
4. Press the " ↻ " offline device reconnection button to allow users to quickly reconnect when a device is disconnected.
5. Device status (online/offline) is intuitively distinguished by signal icons; offline devices will be automatically pinned to the top.
5. Press the " 👁 " button to find the device: the target device flashes three times to indicate location, and the interface icon turns blue. If no operation is done for over 10s, the blue icon disappears automatically.

Device Control Operation Guide

Purpose:

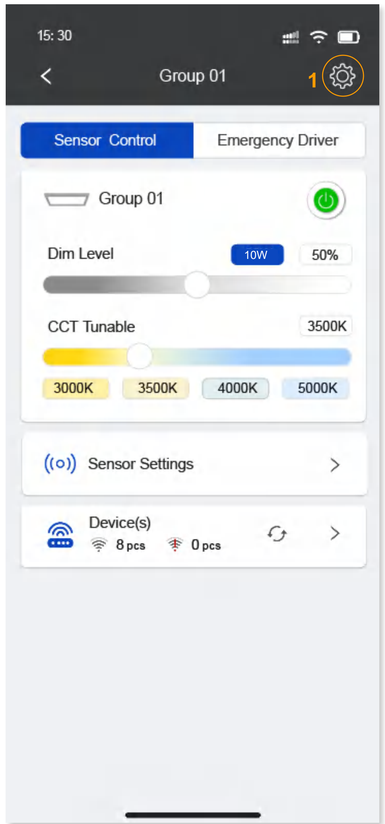
This feature enables users to customize light levels, light behavior, and response times of a zone within a group, adapting to specific application requirements.

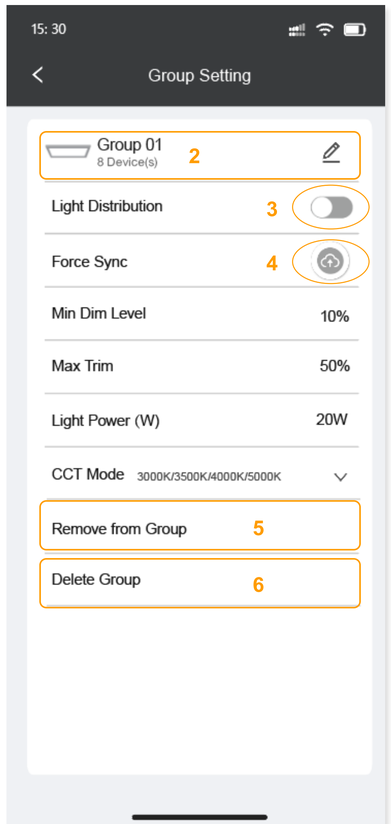


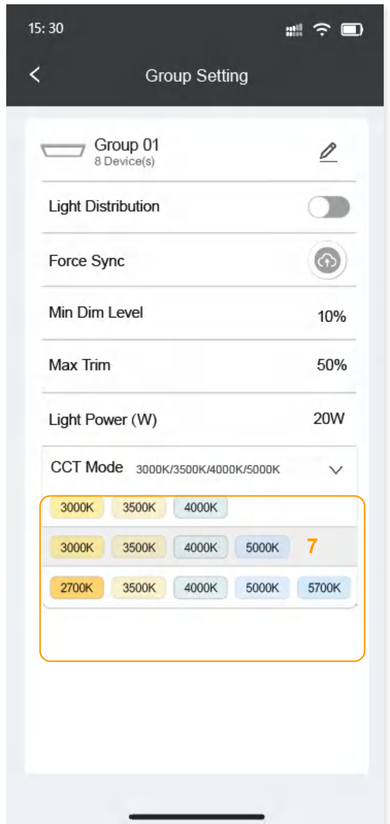
Group Settings

Purpose:

One-click to enable "Enable Sensors Sync" for group sensor triggering and "Force Sync" for mandatory data upload to the cloud, flexibly adjust brightness, power depth and lighting power settings for group devices, freely switch between different CCT (Color Temperature) gears, and quickly batch delete all devices in the group.







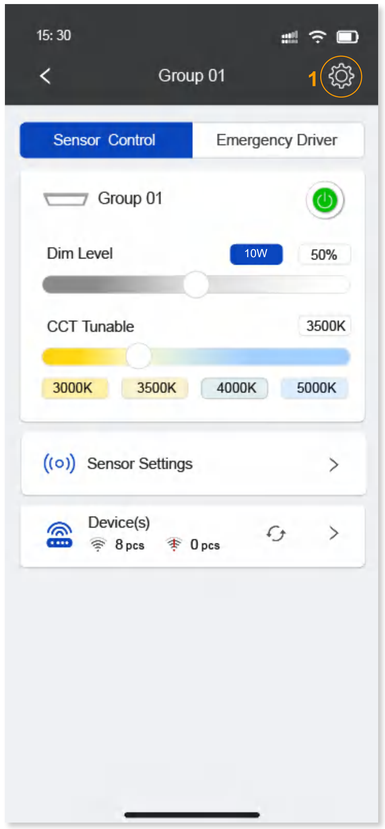
How to:

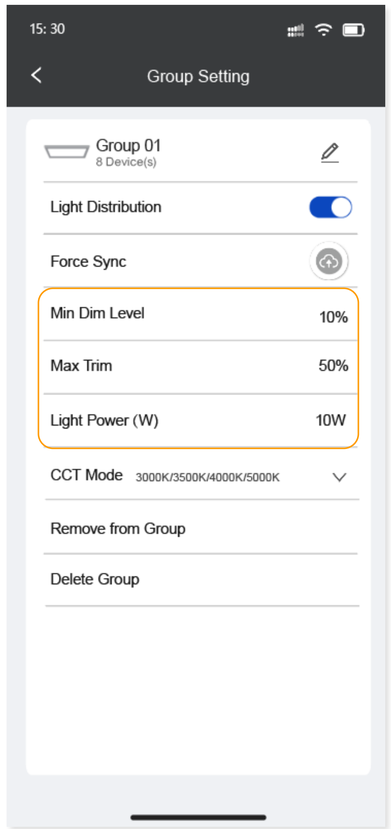
1. Press " ⚙ " to enter group settings
2. The current group name and number of devices are displayed. Tap the " ✎ " button to modify the group name.
3. Press the **"Light Distribution"** button. The group control interface will display its setting bar, where you can complete the settings directly.
4. Press the **" Force Sync "** to enable the data forced synchronization function and upload data to the cloud.
5. Press the **" Remove from Group "**, and the system will pop up a re - confirmation window. After confirmation, all devices in the current Group will be removed. The removed devices will blink 3 times and automatically switch to the unconfigured state.
6. When deleting the current Group, the system will check whether at least 2 Groups are retained (deletion can only be performed when the number of remaining Groups is ≥ 2).
7. Press the **"CCT Mode "** dropdown to expand and select CCT level settings.

Group Settings (Continued)

Purpose:

One-click to enable "Enable Sensors Sync" for group sensor triggering and "Force Sync" for mandatory data upload to the cloud, flexibly adjust brightness, power depth and lighting power settings for group devices, freely switch between different CCT (Color Temperature) gears, and quickly batch delete all devices in the group.





How to:

1. Tap " ⚙ " to enter group settings

2. Min Dim Level (Minimum Dimming Level / Minimum Brightness Threshold)

It is used to define the minimum brightness for light adjustment, set as a percentage (e.g., 0% ~ 100%). Its purpose is to prevent light flickering or impact on the stable operation of the device due to excessively low brightness.

3. Max Trim (Maximum Adjustment Range / Maximum Brightness Limit) (e.g., 50%~100%)

Set the upper limit for the maximum adjustment of light brightness or power. For example, restrict the maximum brightness to 100%, or adjust it to a specific value as needed to optimize energy consumption, protect the device, or limit the output power.

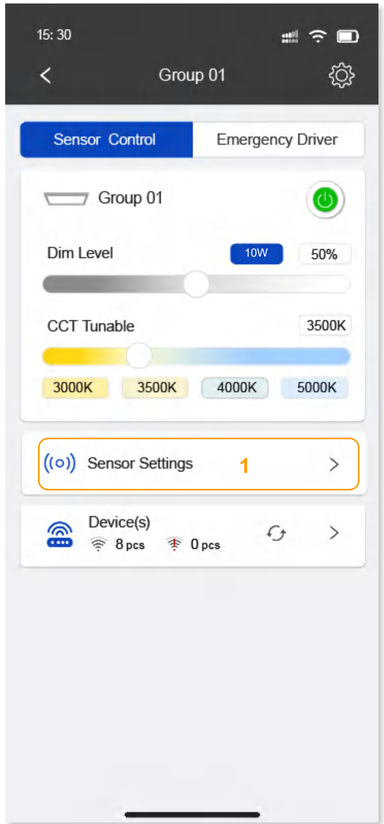
4. Light Power (Luminaire Power)

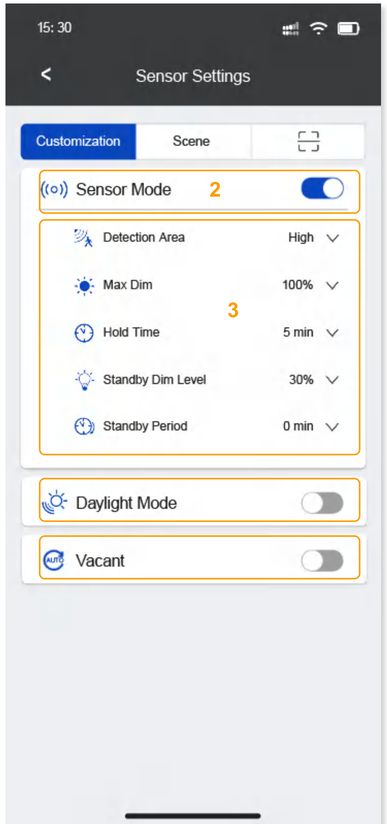
Refers to the rated power parameter of the luminaire. You need to enter the maximum power of the luminaires added to the current Group into the Light Power item of the APP. This operation can assist the system in easily capturing data and realizing the power detection function.

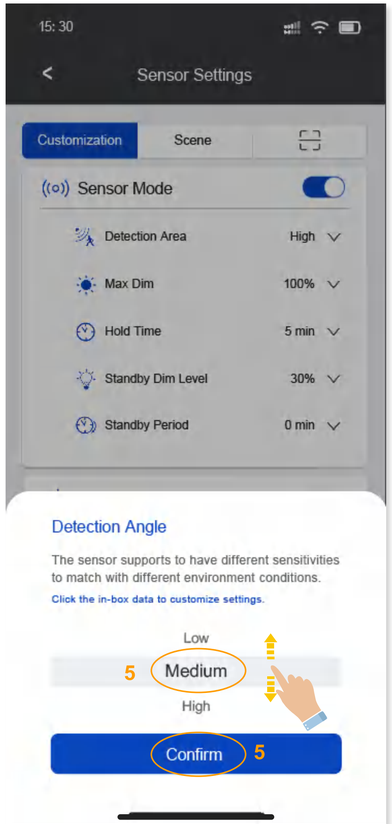
Custom Sensor Settings

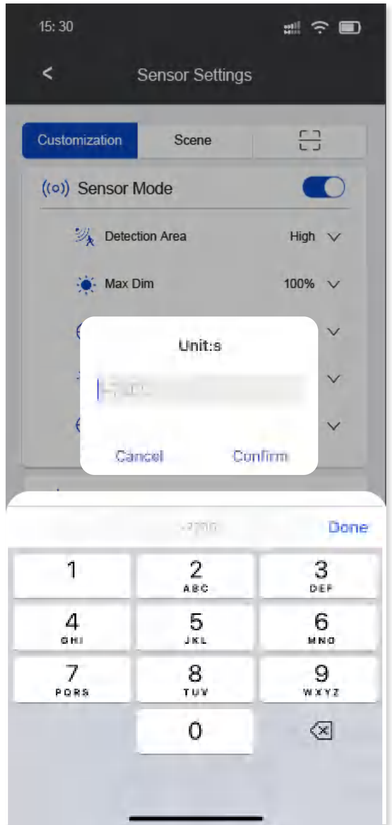
Purpose:

Custom sensor settings (such as Detection Angle, Hold Time, Standby Dim Level, Standby Period, Daylight Threshold) can optimize the lighting system's response and energy efficiency according to actual needs, can ensure appropriate lighting experiences in different environmental conditions, while effectively saving energy.









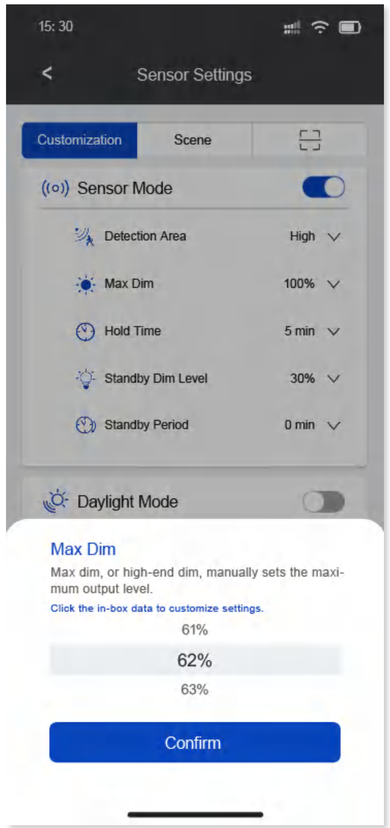
How to:

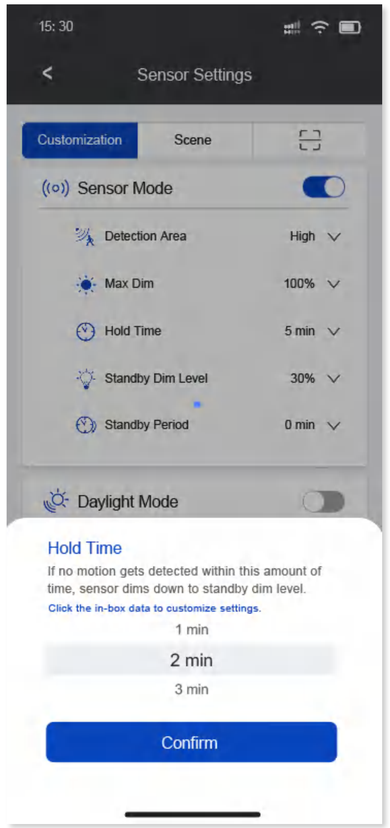
1. Tap the **"Sensor Settings"** dropdown arrow to open the sensor customization interface.
2. Select the mode as needed:
   Sensor Mode: By setting sensing parameters, the device can automatically start or stop when human motion is detected.
   Vacant: Only supports “Auto Off”. The device needs to be manually turned on and will automatically turn off when no one is present.
3. Select the sensor features you want to configure.
4. Slide up and down to select preset values, and click the in-box data to customize settings.
5. Once you've selected the desired values, tap **"Confirm"** to save the settings.

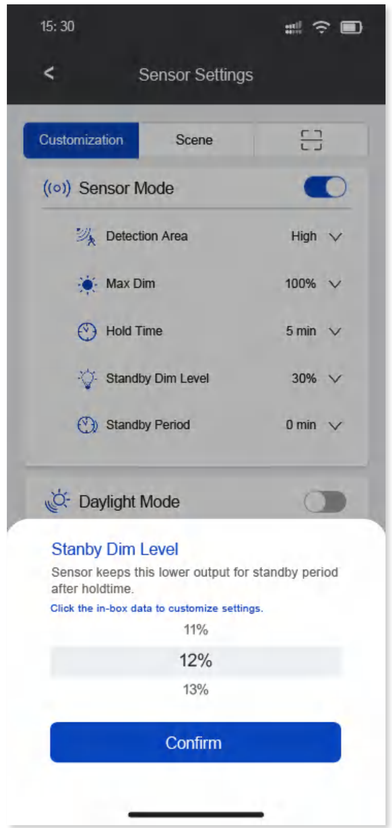
Custom Sensor Settings (Continued)

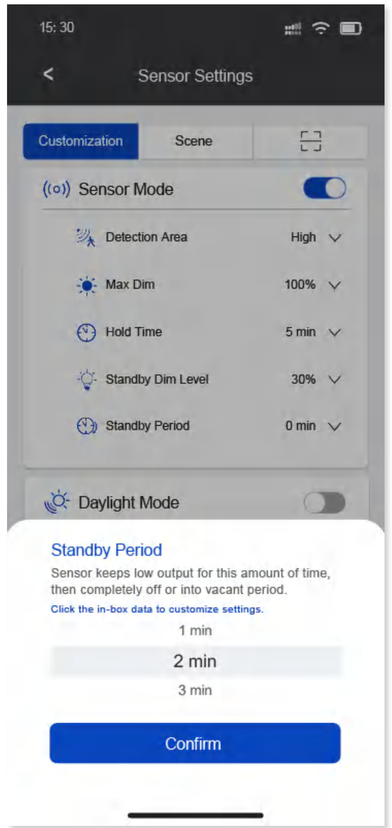
Purpose:

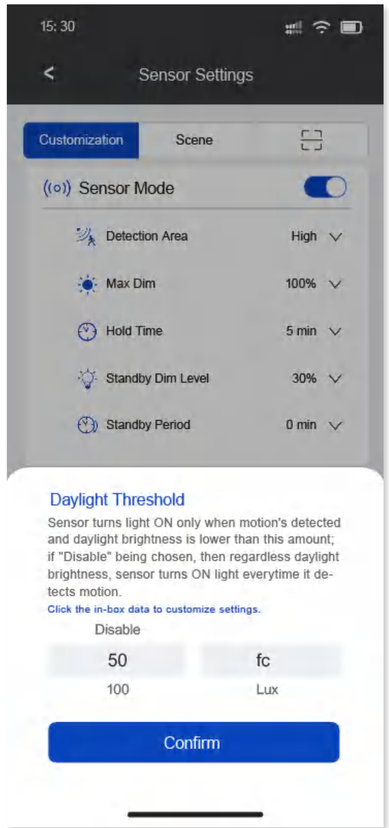
Custom sensor settings (such as Detection Angle, Hold Time, Standby Dim Level, Standby Period, Daylight Threshold) can optimize the lighting system's response and energy efficiency according to actual needs, can ensure appropriate lighting experiences in different environmental conditions, while effectively saving energy.







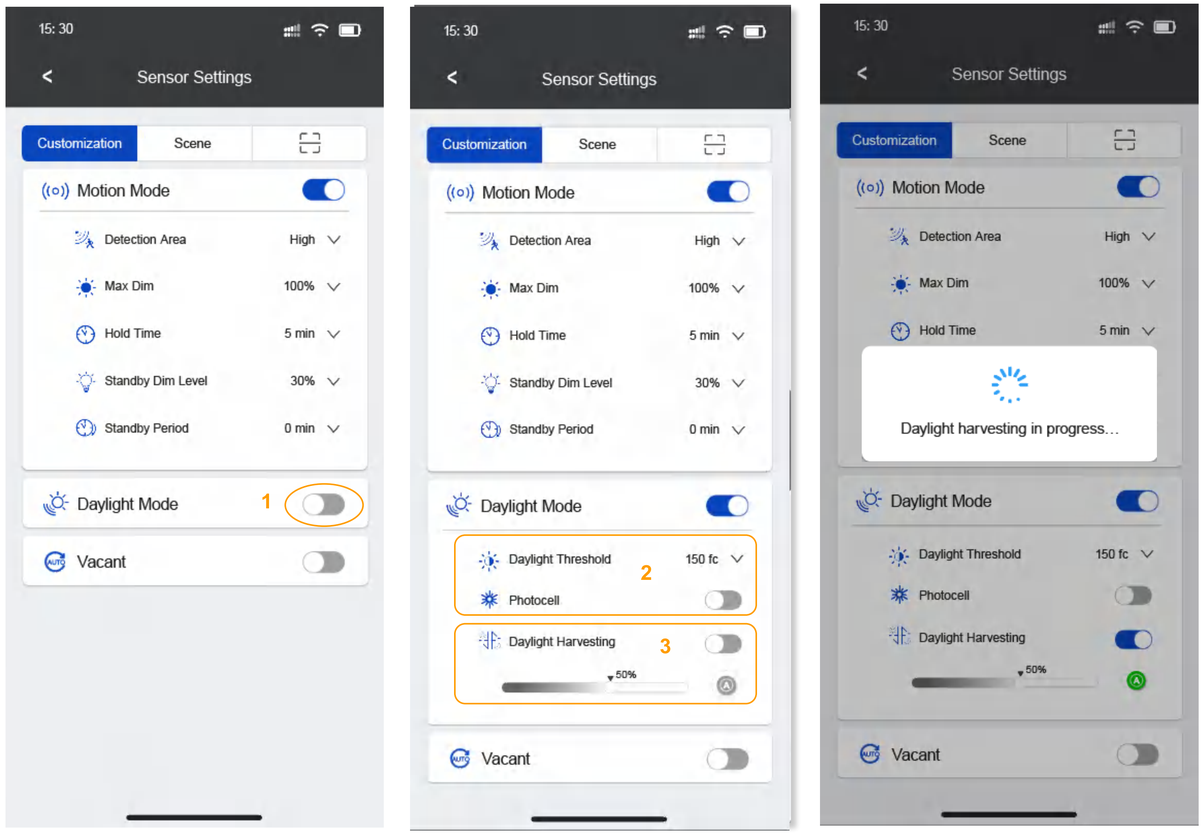




Daylight Mode

Purpose:

By continuously collecting ambient light data and user operation habits, and analyzing them through algorithms, it dynamically optimizes the light-sensing response strategy, enabling devices to have the intelligent adjustment capability to adapt to light changes in different scenarios.



How to:

1. On the APP interface, locate and tap the **"Daylight Mode"** to enter the daylight sensing settings page.

2. You can set the **"Daylight Threshold"** according to actual usage scenarios and personal needs. After configuring the activation conditions and corresponding parameters for the Photocell function, press the **"Photocell"** switch to enable this function.

3. Daylight Harvesting

a. Press the **"Daylight Harvesting"** button to enable the Daylight Harvesting function;

b. Adjust the Dim Level to your personal comfortable level using the Dim Level adjustment slider below;

c. Press the **"** Ⓐ **"** button. The system will automatically learn and save the current Dim Level, then adjust to this comfortable level in similar lighting environments.

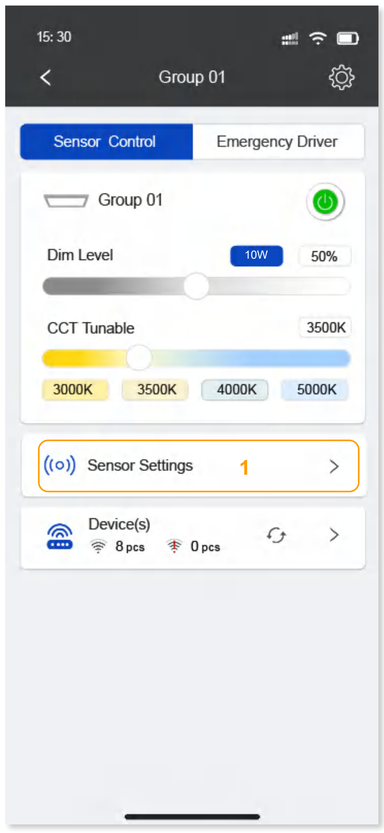
Notes:

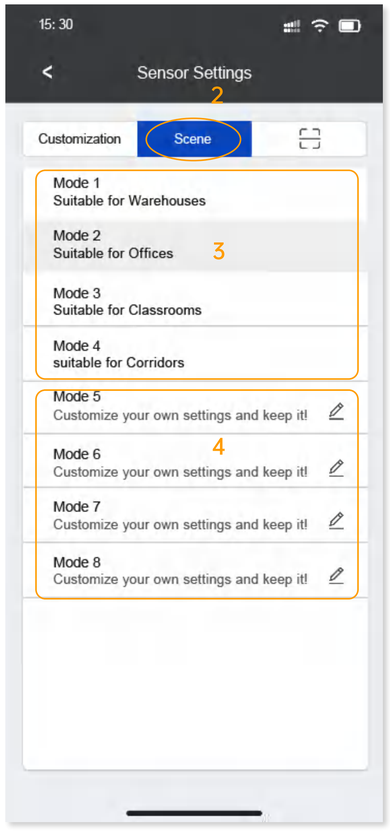
1. To enable pure daylight sensing mode, turn off the Motion Mode.
2. The duration of Self-learning Daylight Harvesting is expected to be 3 - 5 seconds.
3. **"** Ⓐ **"** This button is a one-time trigger switch: press it to enter learning mode (button turns green); it automatically reverts to gray when learning ends.

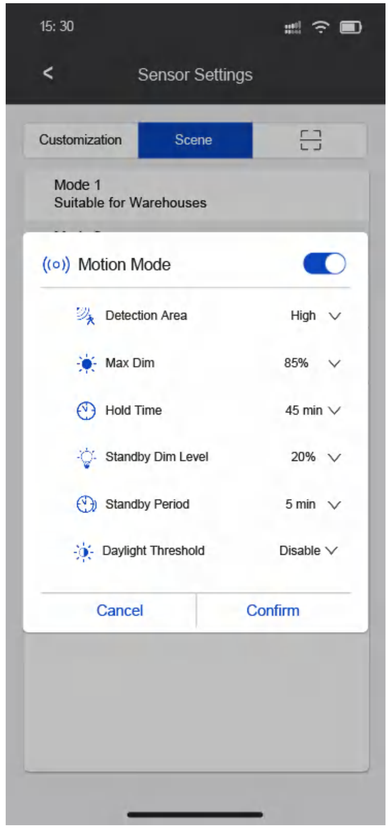
Scene Settings

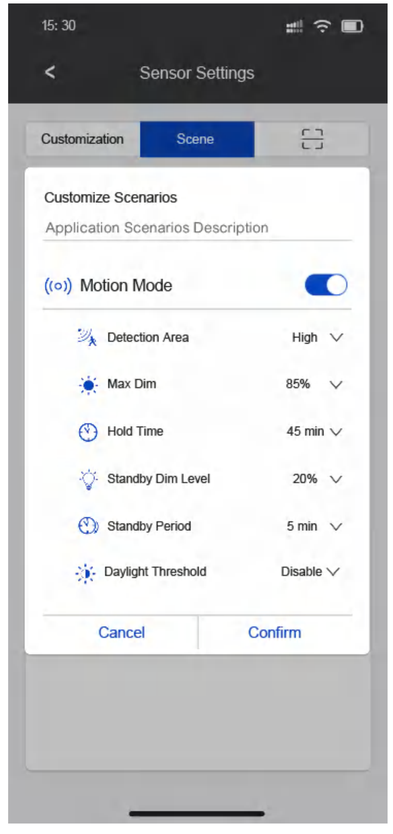
Purpose:

This feature recommends sensor application scenarios and automatically applies the corresponding parameter settings based on the space type, sparing users the need to adjust each parameter manually.









How to:

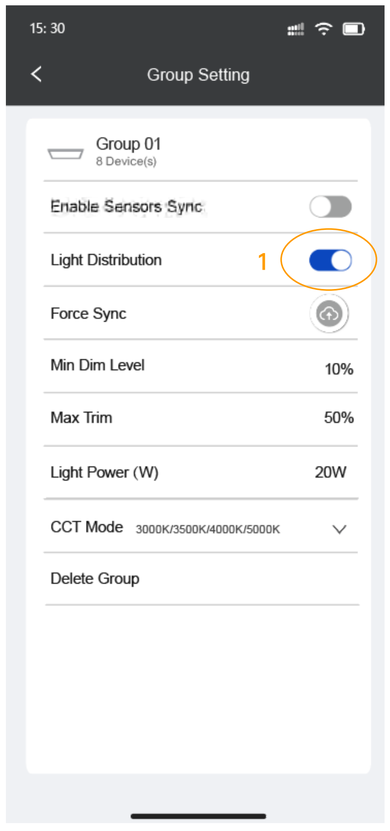
1. Press the **Sensor Settings"** to expand the sensor settings interface.
2. Select **"Scene"** to enter the system preset scenes.
3. Select a suitable scene application from Mode 1 to Mode 4, then tap the corresponding scene; the setting parameters for this scene will pop up. (Note: Scenes 1-4 are fixed and cannot be adjusted.)
4. Scenes from Mode 5 to Mode 8 are custom scenes. You can set parameters according to your own needs and save them.
5. If the preset scene parameters do not meet your needs, contact us to submit your required parameters. We will generate a unique preset QR code for you.Use the QR code scanner on the far right of the interface to apply the preset to the specified group.

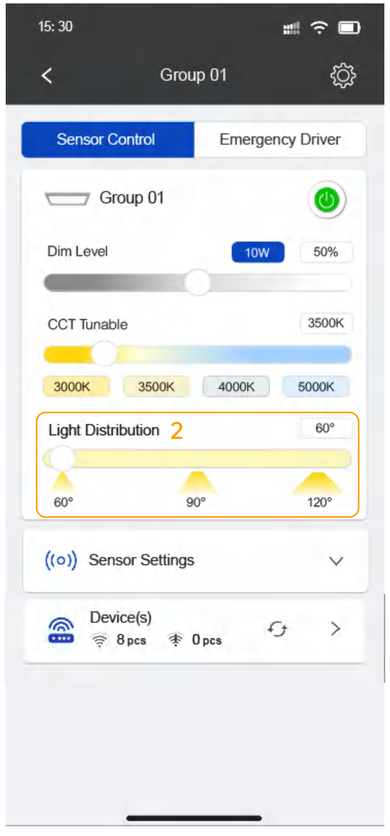
Light Distribution & Up and down dimming control

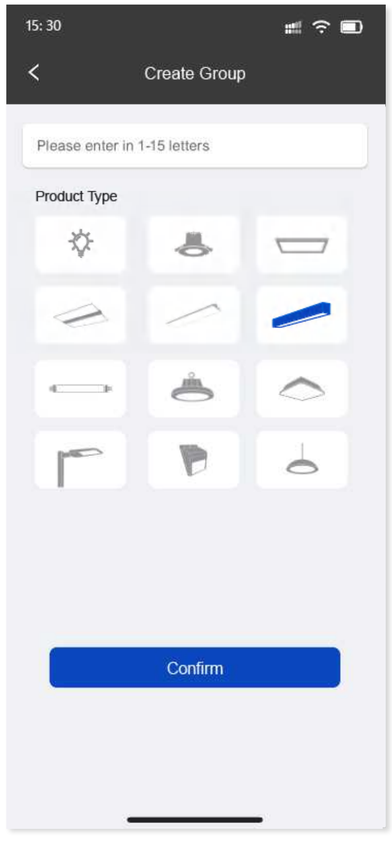
Purpose:

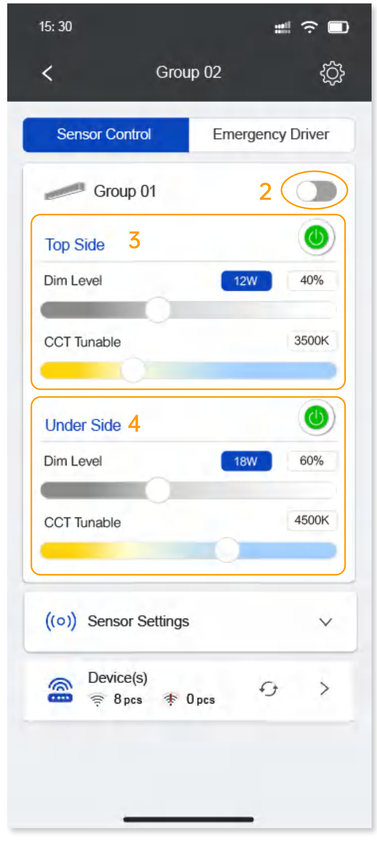
Compatible with products featuring "Light Distribution" and "Up / down Light Output", it allows users to conveniently control the on/off of Up / down lights, adjust dim level, CCT and light distribution, and enables synchronous dimming of upper/lower lights to meet diverse lighting needs.

*This function is only effective for products with this feature; it cannot be used if the product does not have it.









How to:

Light Distribution Control

1. Press the **"Light Distribution"** button, and the group control interface will display its setting bar. You can complete the settings directly on the group interface.

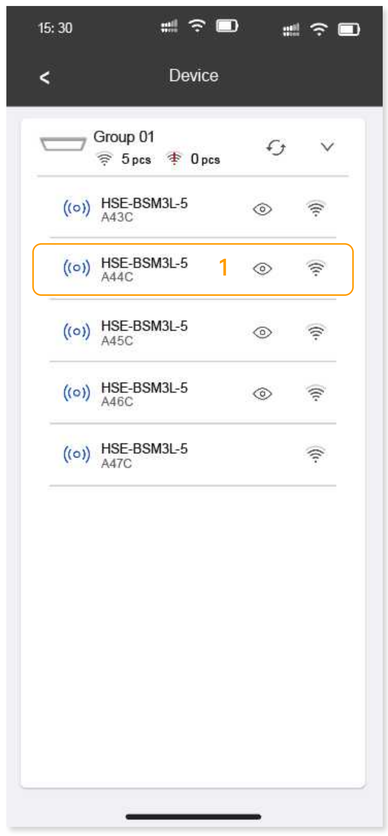
Up and down dimming control

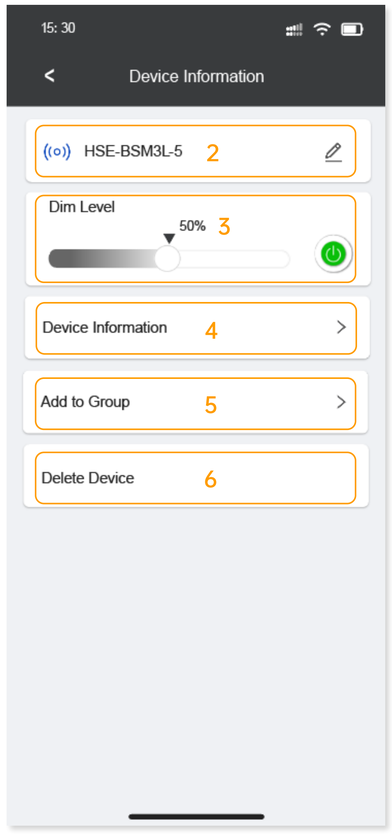
1. Select this product type when creating a group to use the up and down dimming control.
2. Sync Button: Enabled for synchronous dimming of Up / down lights; disabled to adjust their dim level ratio and CCT separately.
3. Up Light Control: Set on/off, dim level and CCT of upper light in the corresponding area.
4. Down Light Control: Set on/off, dim level and CCT of upper light in the corresponding area.

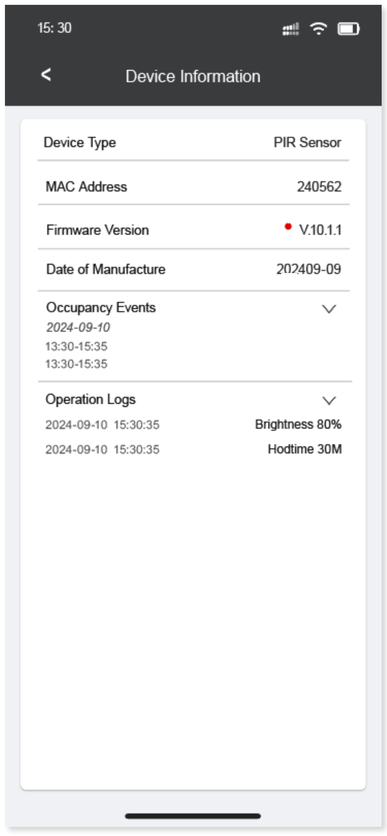
Sensor Single Device Information

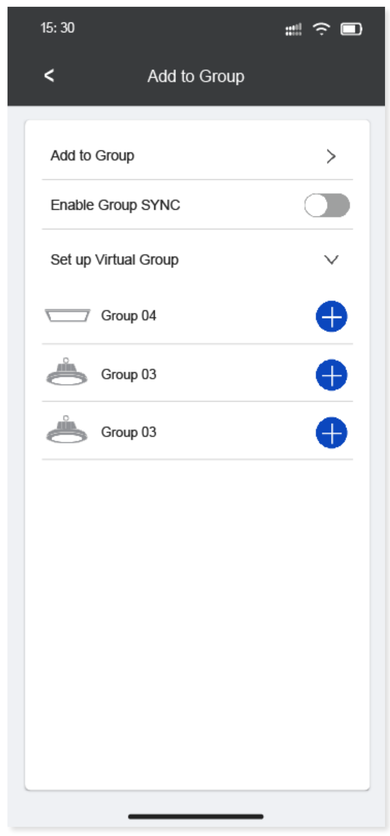
Purpose:

Users can individually set up, associate, and delete devices, as well as view device information, through this interface.









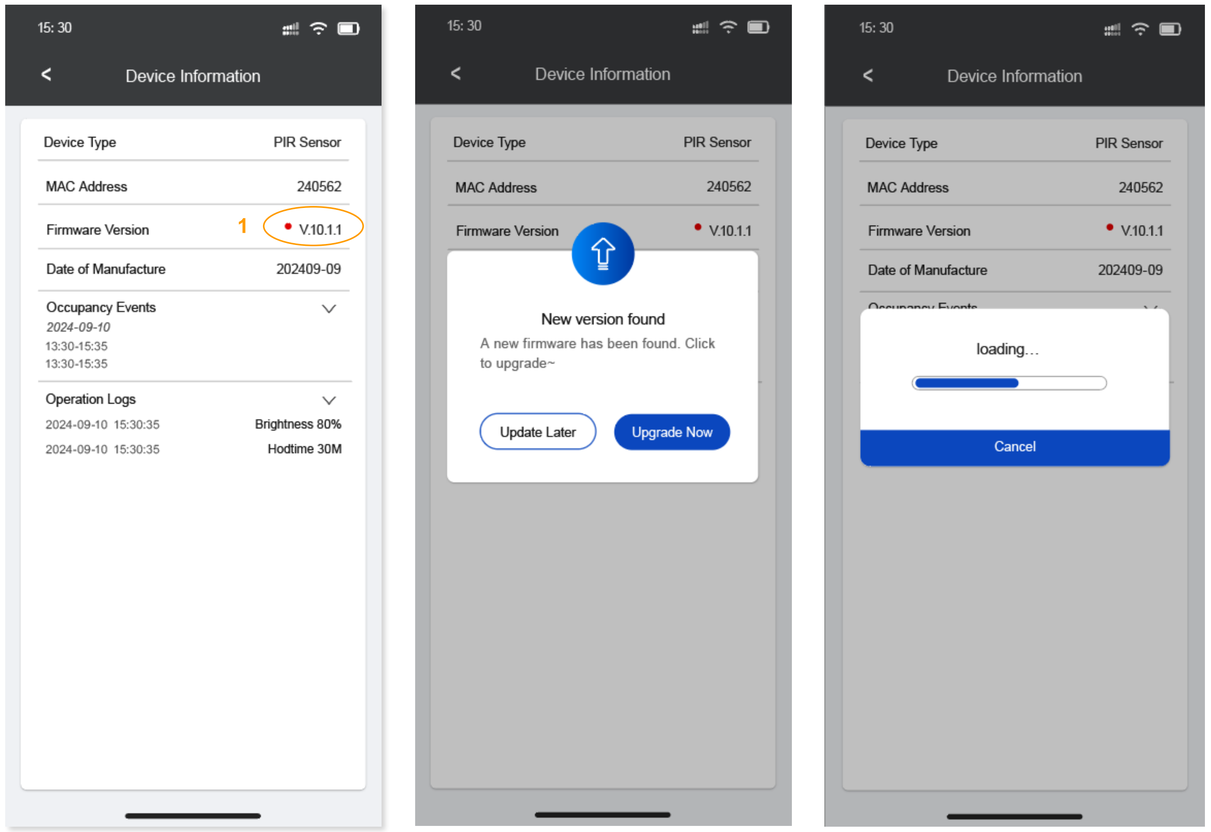
How to:

1. Select the device you want to configure individually.
2. Device Name Bar: You can rename the device name here.
3. Dim Level and ON/OFF settings can be configured for individual devices.
4. Press device information dropdown arrow to view detailed info, such as the MAC address, firmware version, occupancy events, and operation logs
5. Press **"Add to Group"** "Add to Group" to associate a single device with different groups.
6. Devices can be removed from the current group, automatically restoring them to an unprovisioned state.

Firmware Upgrades

Purpose:

Implement targeted functional upgrades, precise problem fixing, and flexible update scheduling to adapt to the scenario requirements of commercial buildings and other areas that need to operate continuously.



How to:

1. When the device detects a new firmware version, a red dot prompt will appear in the **"Firmware upgrades"** section. Simply tap/click on it to perform the version update.
2. A prompt window related to the update will pop up. Follow the instructions in the window step by step.
3. After completing the above operations, the firmware will start updating. The update process may take some time. Please be patient and do not perform other operations on the device or turn off the power during this period to avoid affecting the normal firmware update.

Note:

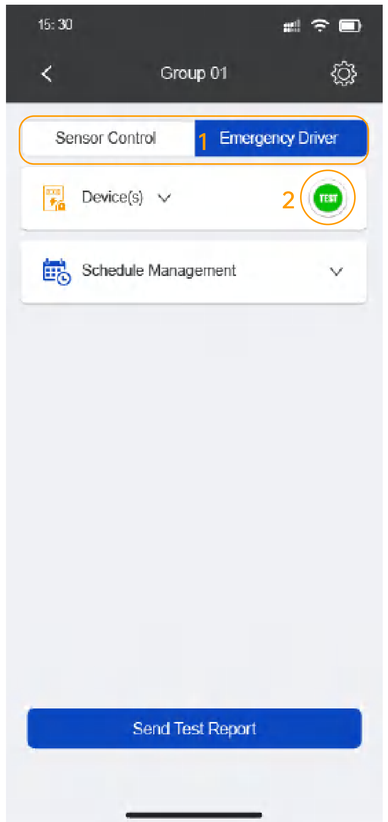
1. The OTA update is expected to take 60 seconds when the mobile phone is in normal communication.
2. Do not perform any other related operations during the OTA process.
3. If you need to interrupt the update process, you can click "Cancel" to abort the OTA during the update.

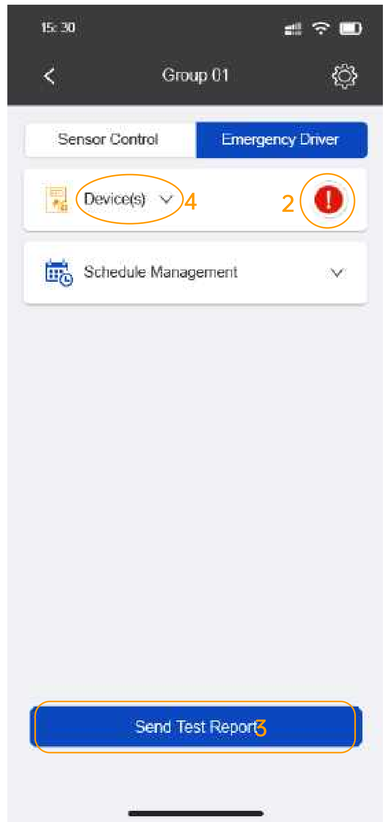
Emergency Control

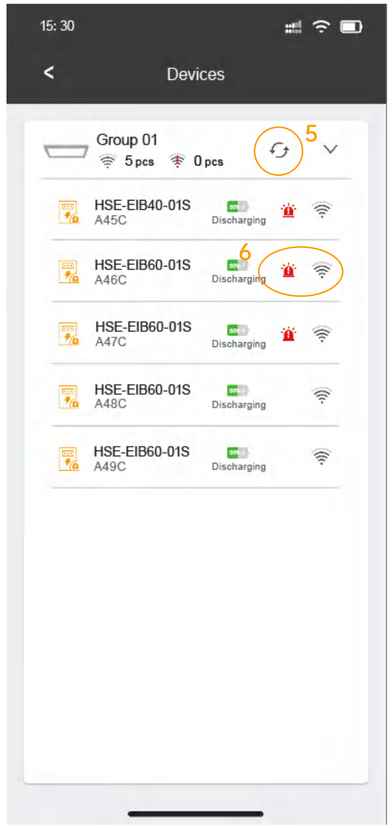
Emergency Driver Test

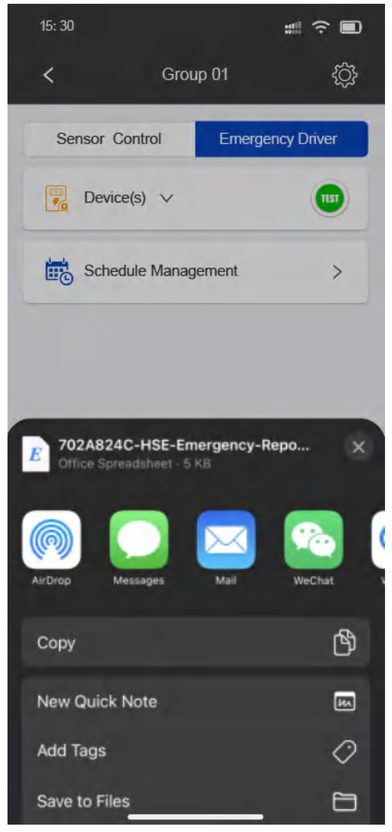
Purpose:

Through the Emergency Driver Control interface, users can monitor the operational status, health condition, and battery level of the emergency driver in real time, ensuring that, in emergency situations, the driver can reliably provide emergency lighting, safeguarding both the system and personnel safety.









How to:

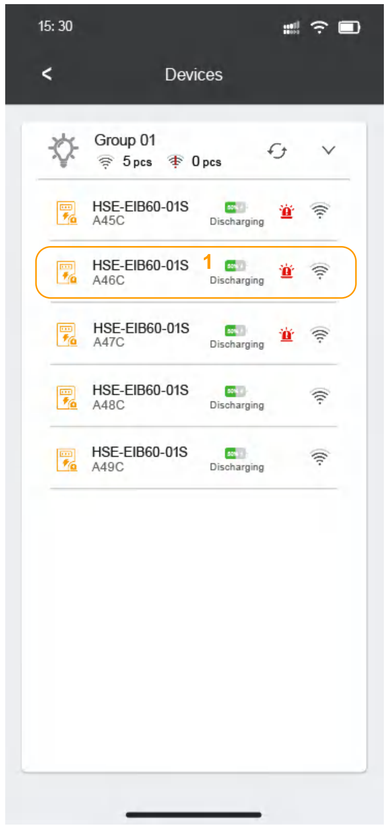
1. Switch to the Emergency Control Page.
2. Press the emergency power test button. In case of a failed test, the button will turn red.
3. Press **"Send Report"** button to send the test report.
4. Press **"Devices"** to open the group device list and check the status of all devices in the group.
5. Press drop-down arrow next to Device Information to view detailed information such as device operation logs and occupation events.
6. In the device status section, offline or faulty devices are displayed at the top, enabling users to quickly identify devices requiring repair or attention.

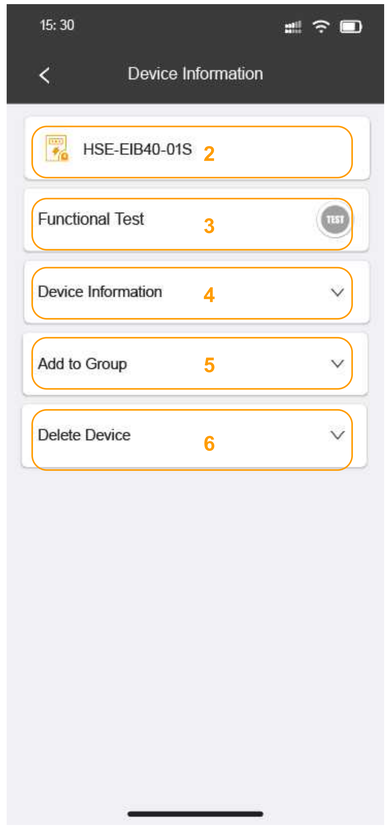
- **The estimated duration for a single-device test is 15s.**
- **The testing of all devices in the group is expected to be completed within 20s**

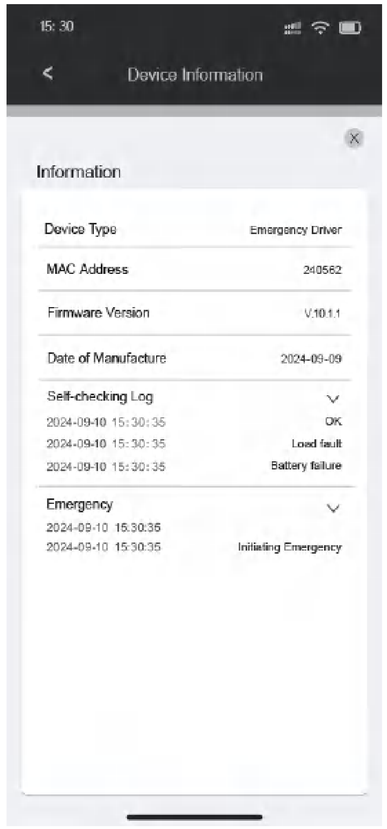
Emergency Driver Single Device Information

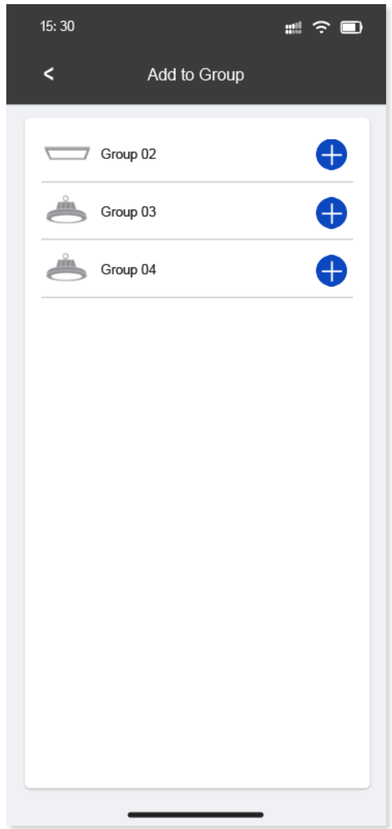
Purpose:

Users can individually set up, associate, and delete devices, as well as view device information, through this interface.









How to:

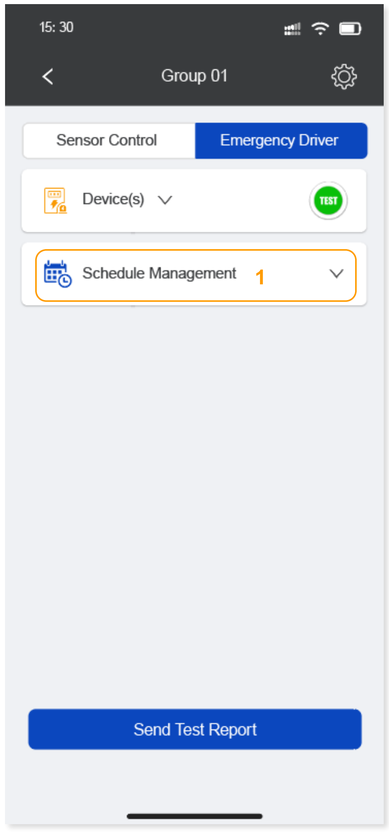
1. Select the device to be set up individually.
2. Device Name Bar: The device name can be renamed here.
3. Single Device Test Button.
4. Detailed information such as self-test logs and emergency events can be viewed.
5. A single device can be associated with different groups..
6. The device can be removed from the current group, and it will automatically revert to the unnetworked state.

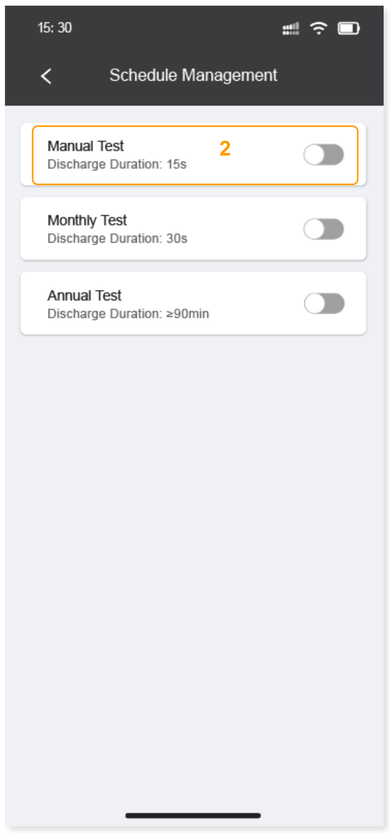
- **The test duration is expected to be 15s.**

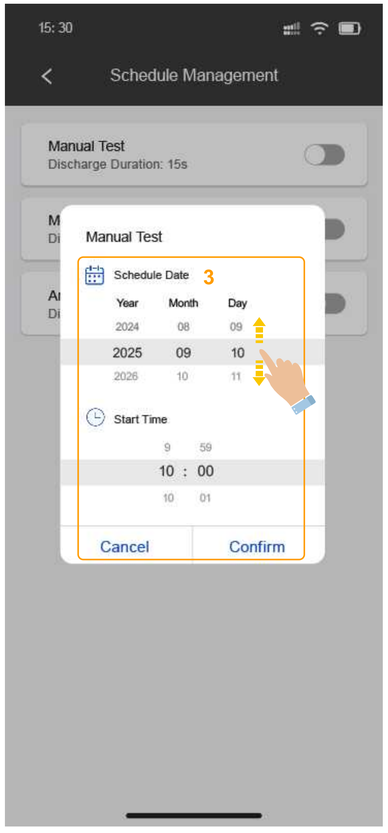
Emergency Driver Schedule Management

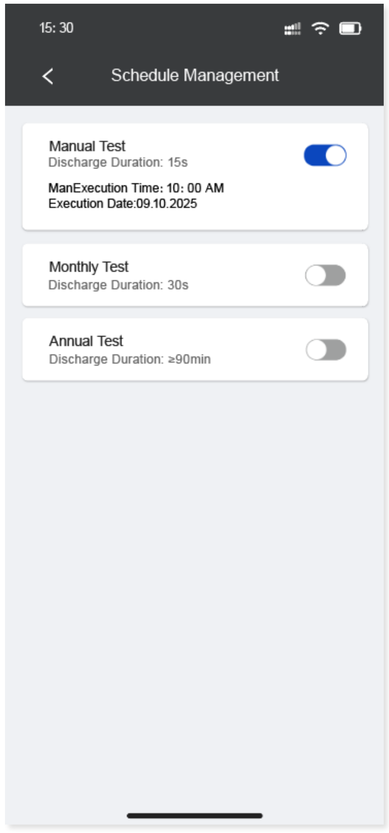
Purpose:

Through emergency driver schedule management, enable scheduled self-checks for emergency systems.









How to:

1. Press **"Schedule Management"** to expand the schedule management settings interface.

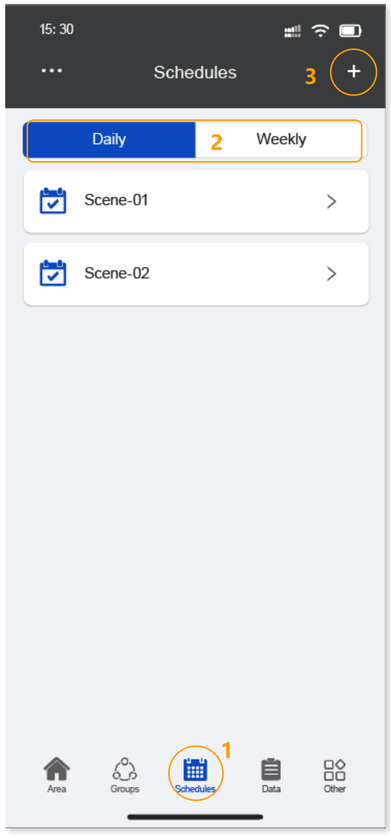
2. Select the corresponding test function from **"Manual Test"**, **"Monthly Test"**, and **"Annual Test"** according to your needs.
(Note: Only one test option can be selected at a time; simultaneous activation of multiple test schedule management settings is not supported.)

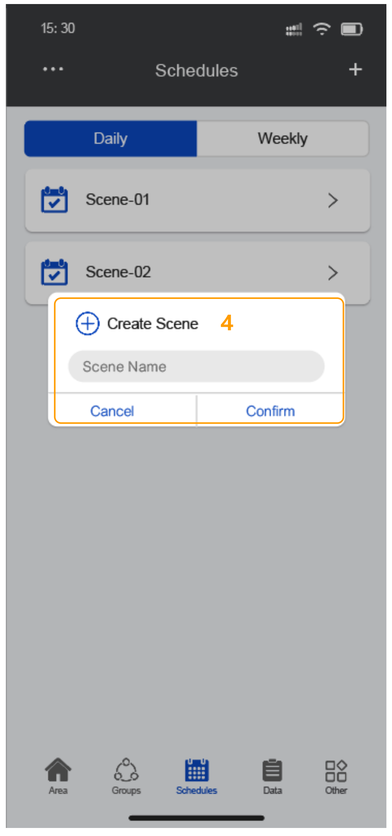
3. Press the function switch, and the execution time options for this function will pop up; after making your selection as needed, press the **"Confirm"** button to save the settings.

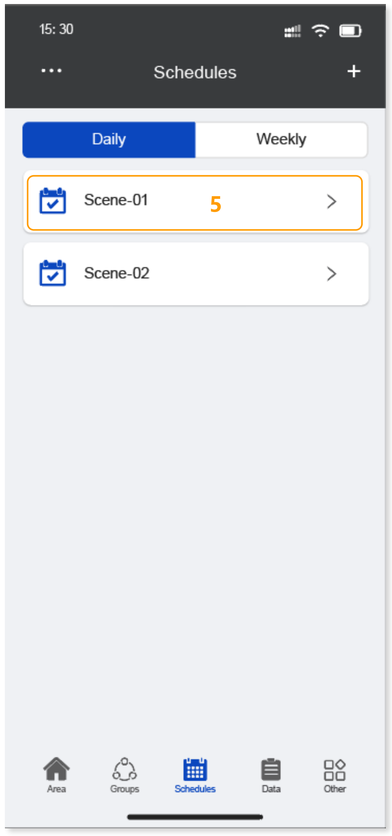
Schedule (Requires integration with the gateway)

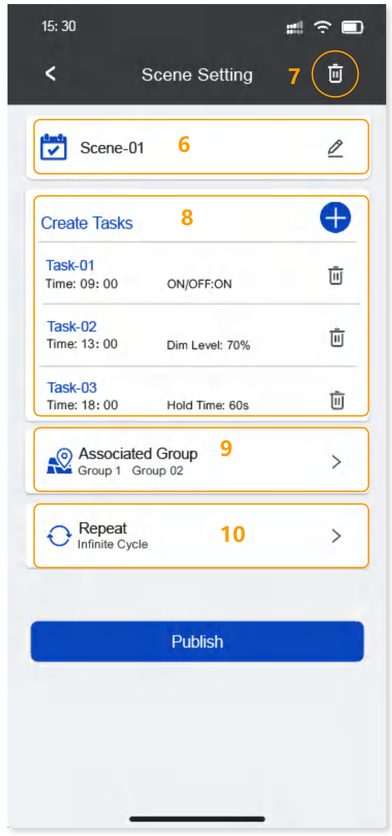
Purpose:

Automatically trigger different lighting or device scenes based on specific dates and times to meet the changing needs of different environments.









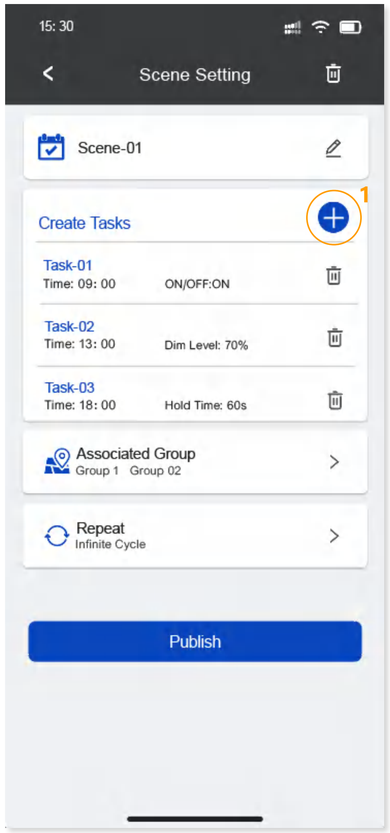
How to:

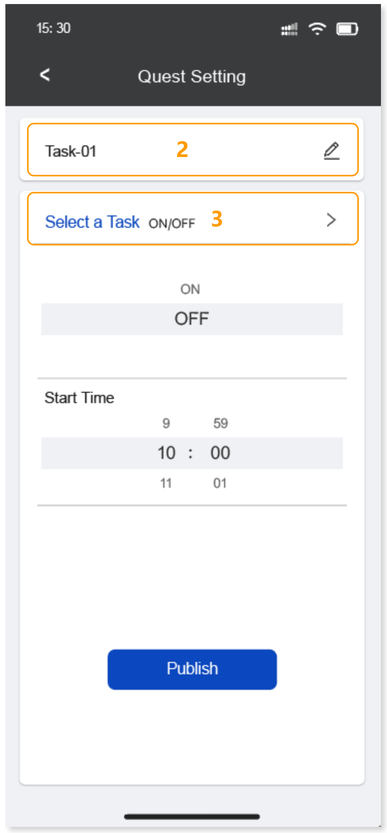
1. Switch to the schedule management interface via the bottom navigation bar labeled **"Schedules"**.
2. Button for switching between daily schedule and weekly schedule settings.
3. Press the **"+"** button to create a new schedule.
4. Complete the creation of the new schedule according to the prompts in the pop-up window.
5. Select the schedule that needs editing and settings to enter the scenario settings.
6. The scenario name information bar allows editing and renaming.
7. To delete a scenario, confirm again in the pop-up window to complete the deletion.
8. Tasks can be added and deleted.
9. Associated group settings.
10. Recurrence selection settings.

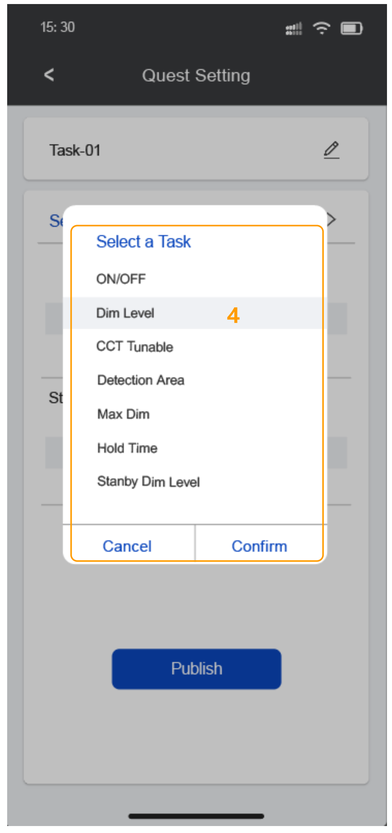
Create Daily Schedule

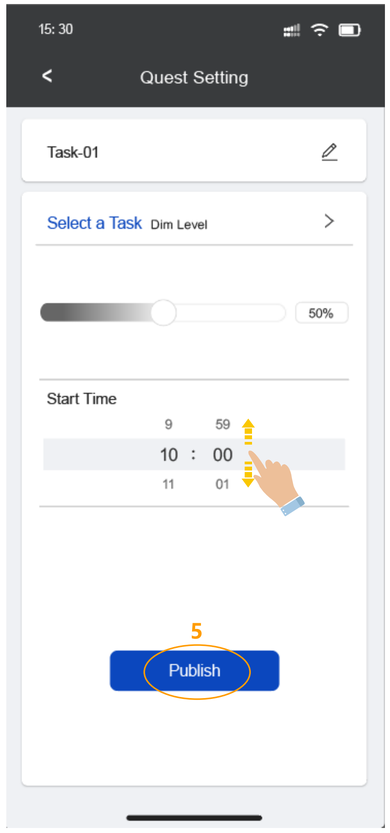
Purpose:

Automatically trigger different lighting or device scenes based on specific dates and times to meet the changing needs of different environments.









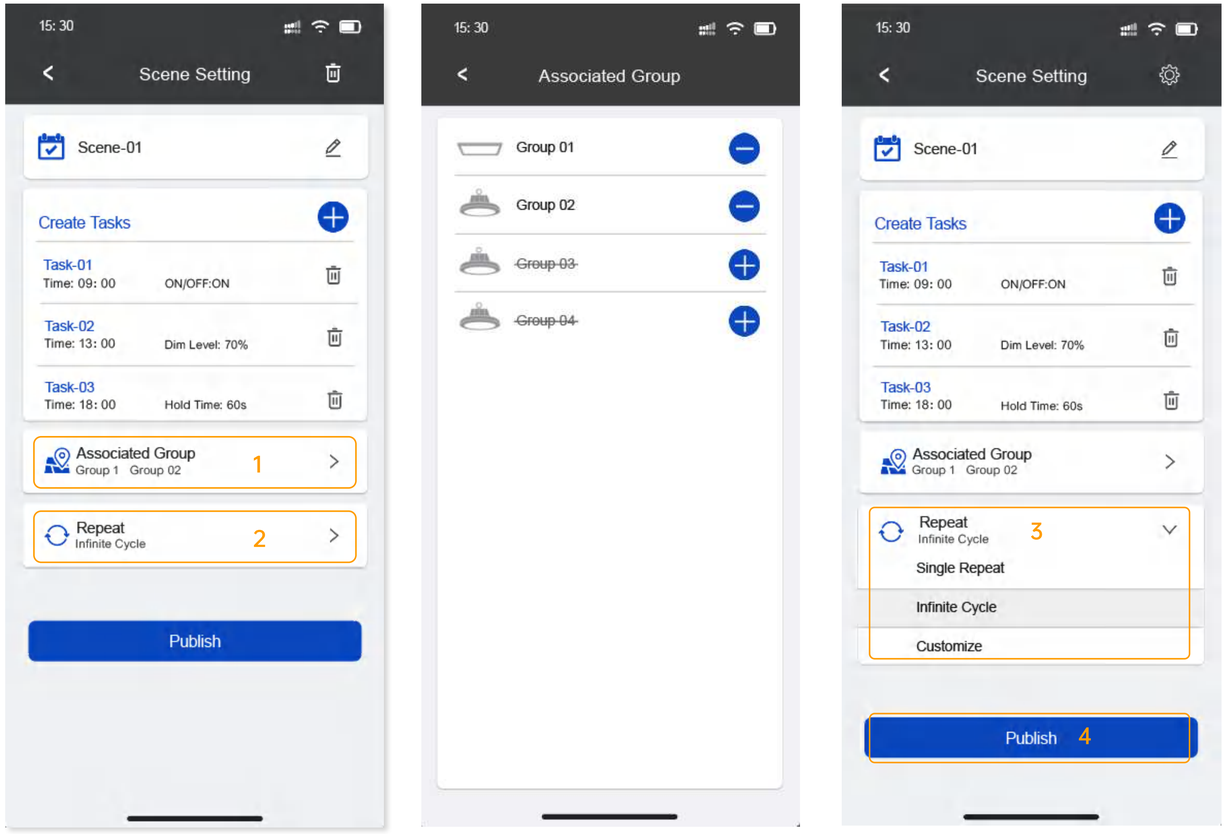
How to:

1. Press the **"+"** button to enter the task creation and settings interface.
2. In the input box, fill in the name of the task you need to create.
3. Press the **"Select a Task"** option bar, then select the corresponding task function from the pop-up function list based on your actual needs.
4. Select the task's execution time.
5. After confirming all settings are correct, press the **"Publish"** button to complete the task addition.

Create Daily Schedule (Continued)

Purpose:

Automatically trigger different lighting or device scenes based on specific dates and times to meet the changing needs of different environments.



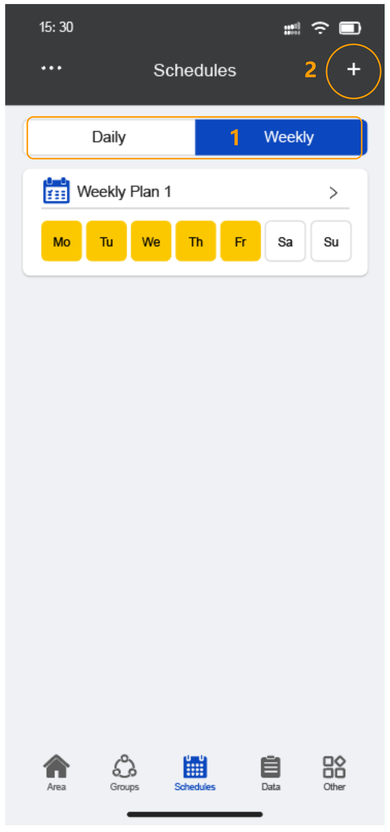
How to:

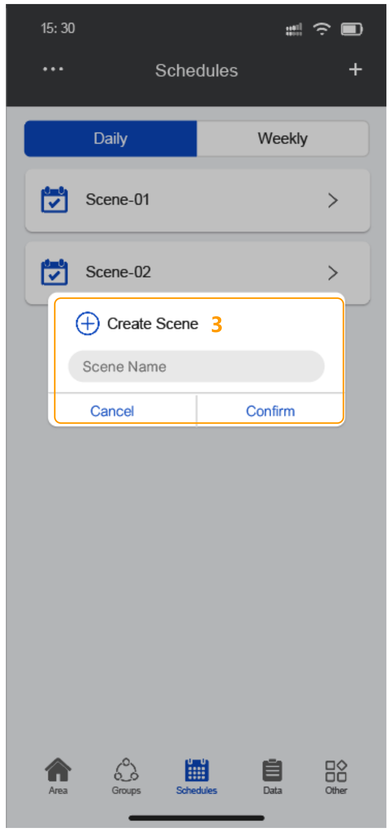
1. Press **"Associated Group"** to enter the associated group interface, then select the group that needs to be associated with this scenario task (" " indicates an already associated group; press " " to remove the association and press " " to add an associated group).
2. Press **"Repeat"** to expand the recurrence options, then select the appropriate one based on your needs.
3. After confirming all setting parameters are correct, press **"Publish"** to confirm task execution. The system will immediately activate the task according to the set parameters.

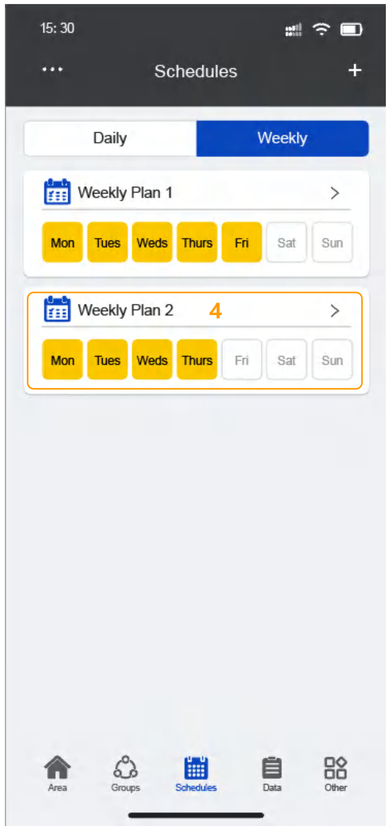
Weekly Schedules

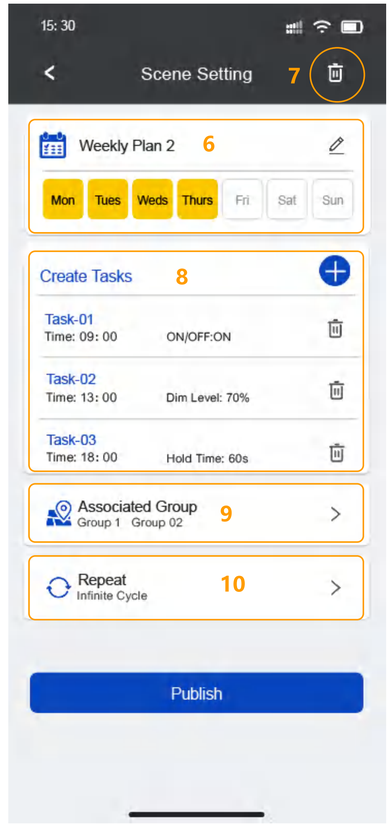
Purpose:

By setting a fixed weekly schedule, users can eliminate manual operations. The system will automatically execute tasks based on the preset plan, significantly enhancing management efficiency.









How to:

1. Press **"Weekly"** to switch to the weekly schedule settings.

2. Press **" + "** to add a weekly schedule task.

3. Complete the creation of a new weekly plan according to the prompts in the pop-up window.

4. Select the weekly plan that needs editing and settings to enter the task settings interface.

5. In the weekly plan information bar, you can edit and rename the plan, and select the execution cycle.

6. To delete a scenario, confirm again in the pop-up window to finish the deletion.

7. Tasks can be added and deleted.

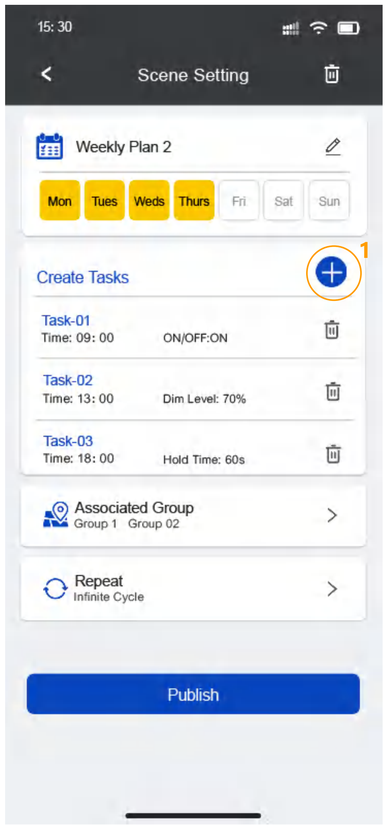
8. Associated group settings.

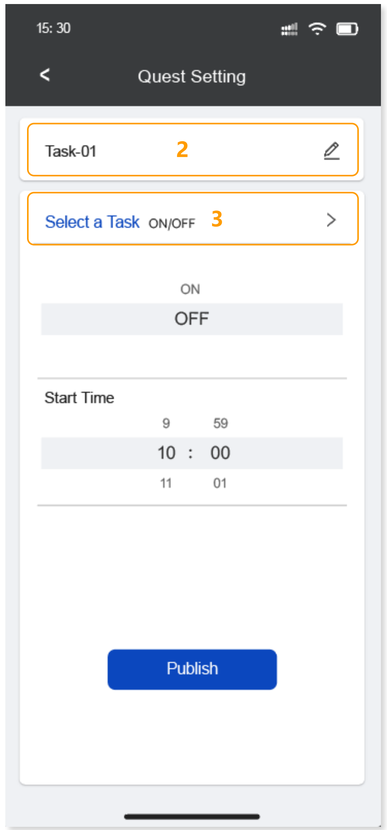
9. Recurrence selection settings.

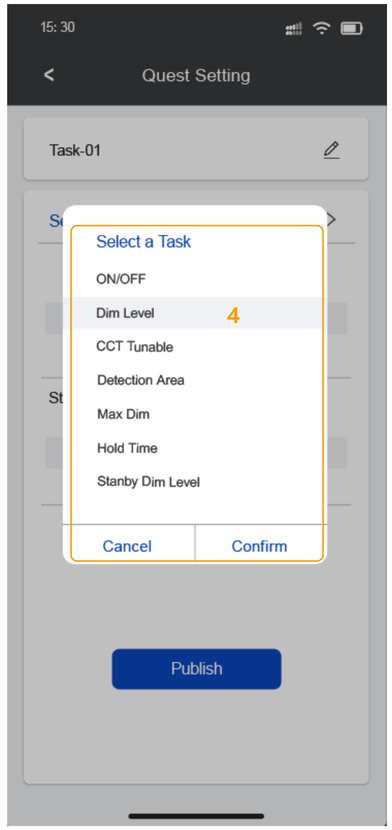
Weekly Schedules

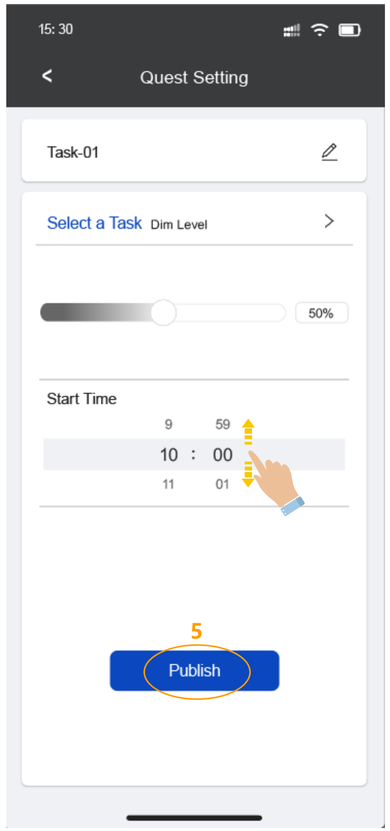
Purpose:

By setting a fixed weekly schedule, users can eliminate manual operations. The system will automatically execute tasks based on the preset plan, significantly enhancing management efficiency.









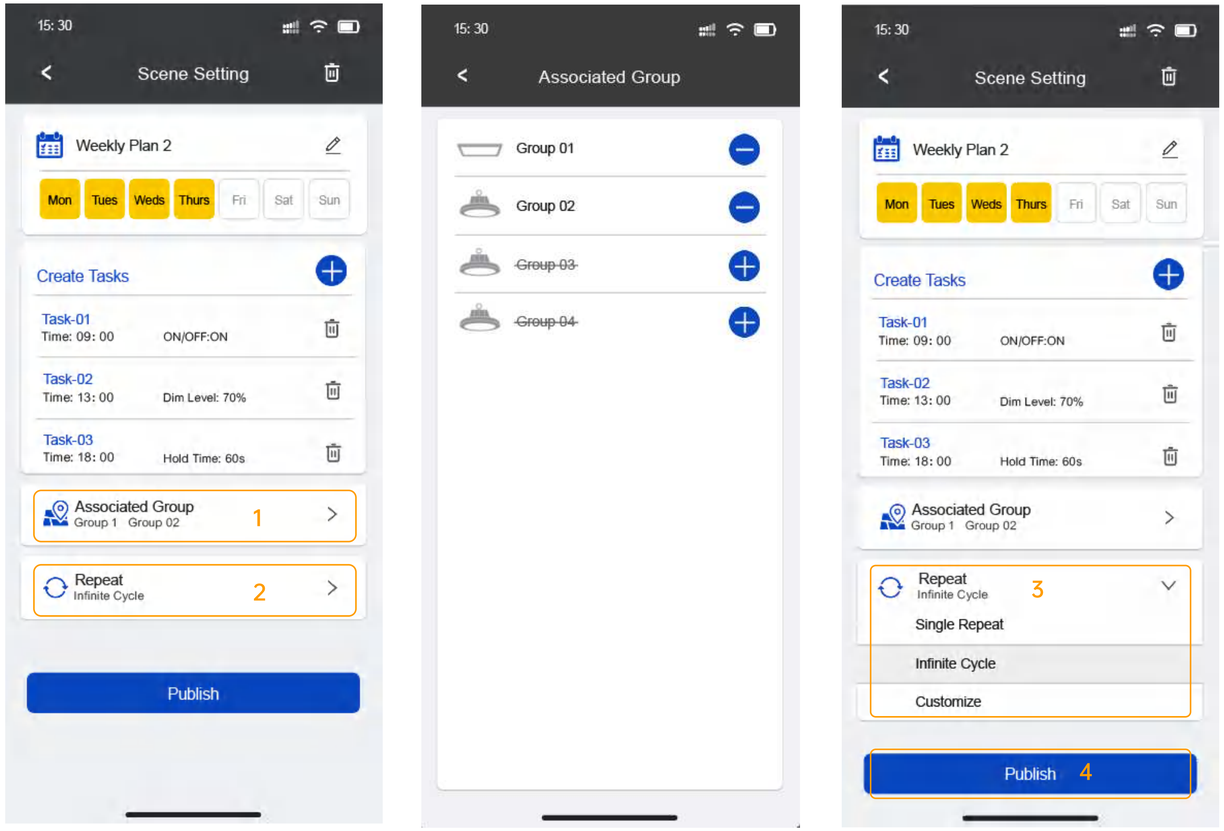
How to:

1. Press the **"+"** button to enter the task creation and settings interface.
2. In the input box, fill in the name of the task you need to create.
3. Press the **"Select a Task"** option bar, then select the corresponding task function from the pop-up function list based on your actual needs.
4. Select the task's execution time.
5. After confirming all settings are correct, press the **"Publish"** button to complete the task addition.

Weekly Schedules

Purpose:

By setting a fixed weekly schedule, users can eliminate manual operations. The system will automatically execute tasks based on the preset plan, significantly enhancing management efficiency.



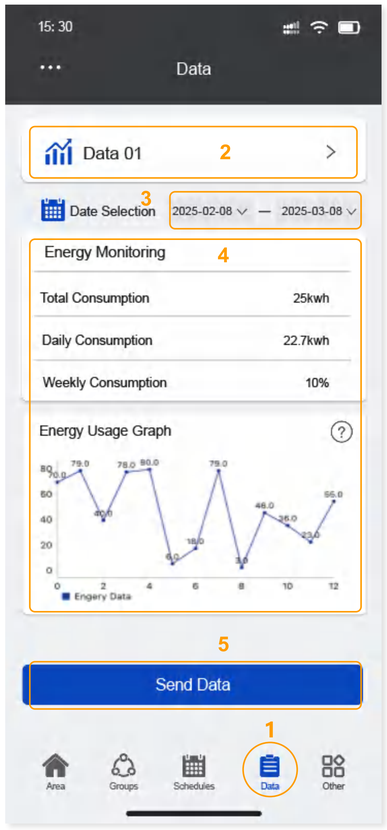
How to:

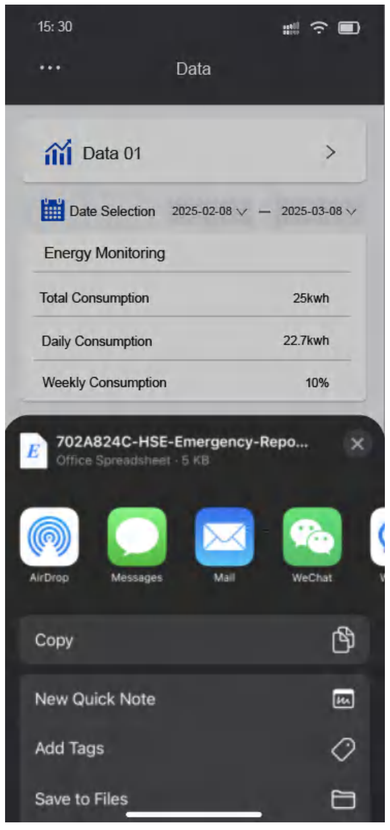
1. Press **"Associated Group"** to enter the associated group interface, then select the group that needs to be associated with this scenario task (" " indicates an already associated group; press " " to remove the association and press " " to add an associated group).
2. Press **"Repeat"** to expand the recurrence options, then select the appropriate one based on your needs.
3. After confirming all setting parameters are correct, press **"Publish"** to confirm task execution. The system will immediately activate the task according to the set parameters.

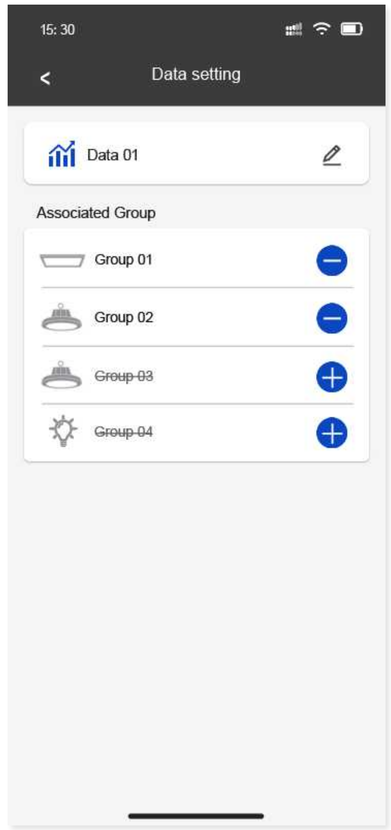
Data

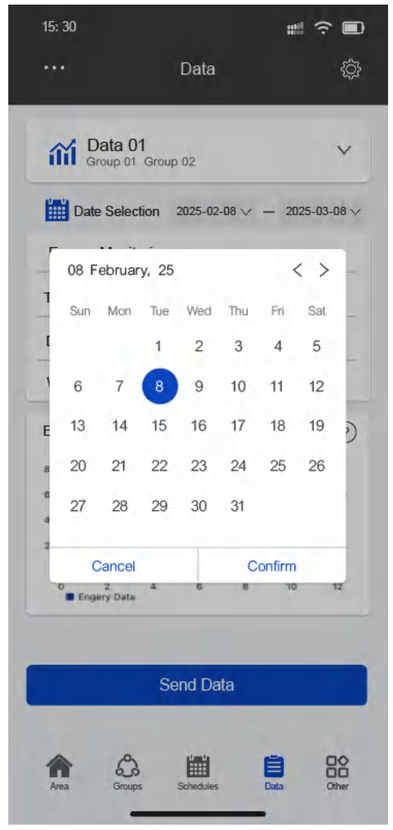
Purpose:

Through this interface, users can view daily power consumption data to gain insight into the dynamic changes in energy usage. This feature is designed to optimize energy management, improve efficiency, and help users promptly identify abnormal power fluctuations or equipment malfunctions. By taking appropriate measures, users can reduce energy waste and lower operational costs.









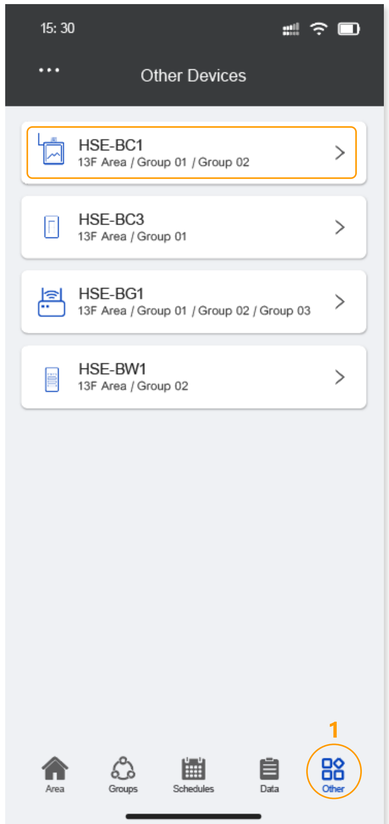
How to:

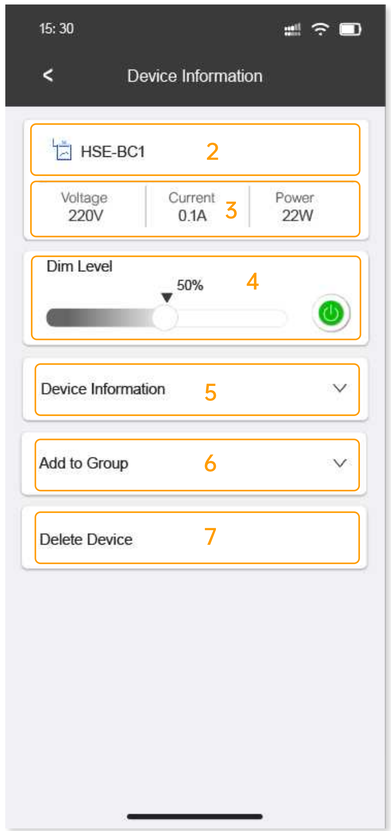
1. Switch to the Data Statistics main interface via the bottom navigation bar labeled **"Data".**
2. Press **"Data"** to enter the Data Statistics settings. You can select different Groups, and the system will automatically sum up all measurement data under the selected Group.
3. If you need to obtain a report for a specific area and designated time period, first select the start time of the statistics in the time filter bar. After pressing the **"Confirm"** button, you can view the relevant energy consumption data within that time period.
4. The system will automatically display the corresponding energy consumption data information based on the filtered area range and time period.
5. Press **"Regularly Send"** to perform local sending or saving of the statistical data.

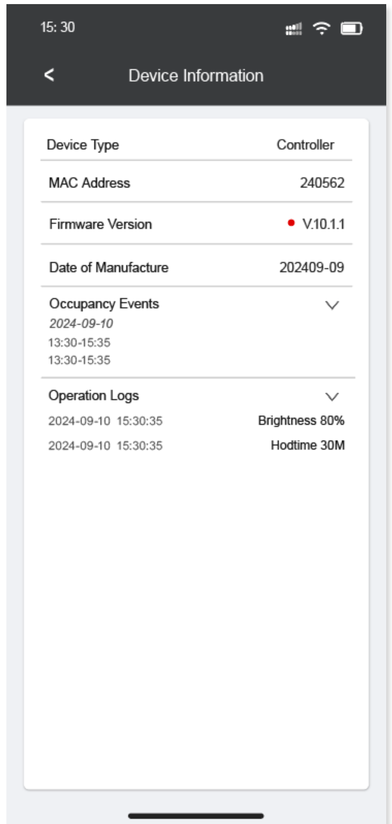
Smart Accessories (Controller)

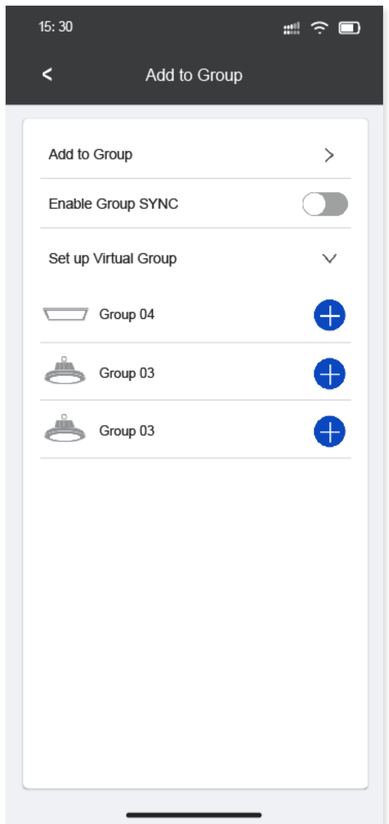
Purpose:

Users can individually set up, associate, and delete devices, as well as view device information, through this interface.









How to:

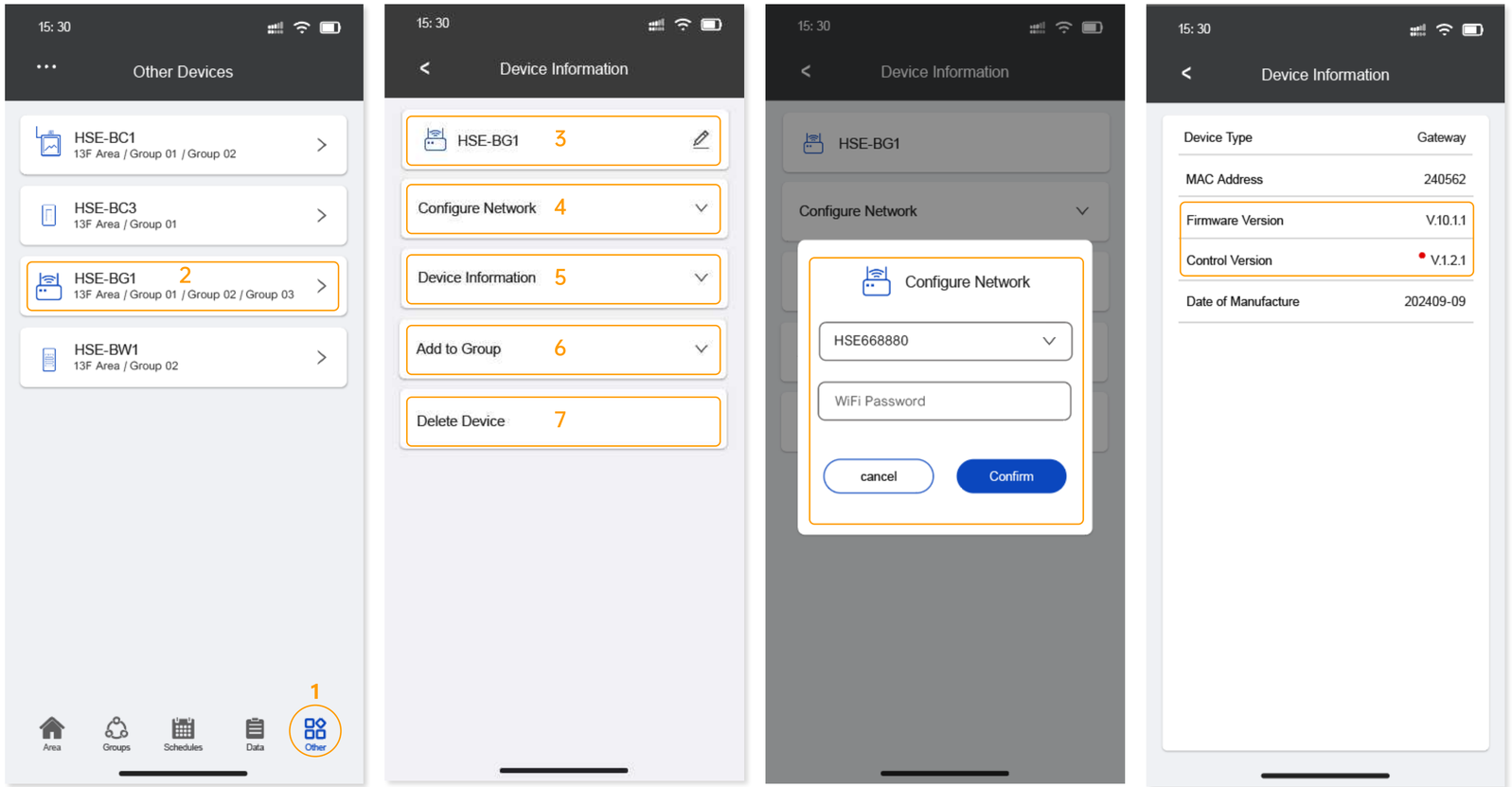
1. Switch to the Data Statistics main interface via the bottom navigation bar labeled **"Other"**.
2. Select the device you want to control.
3. In the Device Name bar, you can edit the device name.
4. For real-time power consumption data, tap to refresh manually.
5. Meter relay switch and brightness control.
6. Press **"Device Information"** to upgrade the firmware version and view detailed information such as device operation logs and occupancy events.
7. Press **"Add to Group"** to associate the device with different groups.
8. The device can be removed, and it will automatically return to the unnetworked state.

Under the condition of 120V voltage, the current capacity of 10A can maximally bear a load power of 1200W.

Smart Accessories (Gateway)

Purpose:

Users can achieve cross-domain connectivity, data interaction, and efficient operation and maintenance in large-scale scenarios between Bluetooth devices and other network protocol devices through protocol conversion, extending communication ranges, and centralized management.



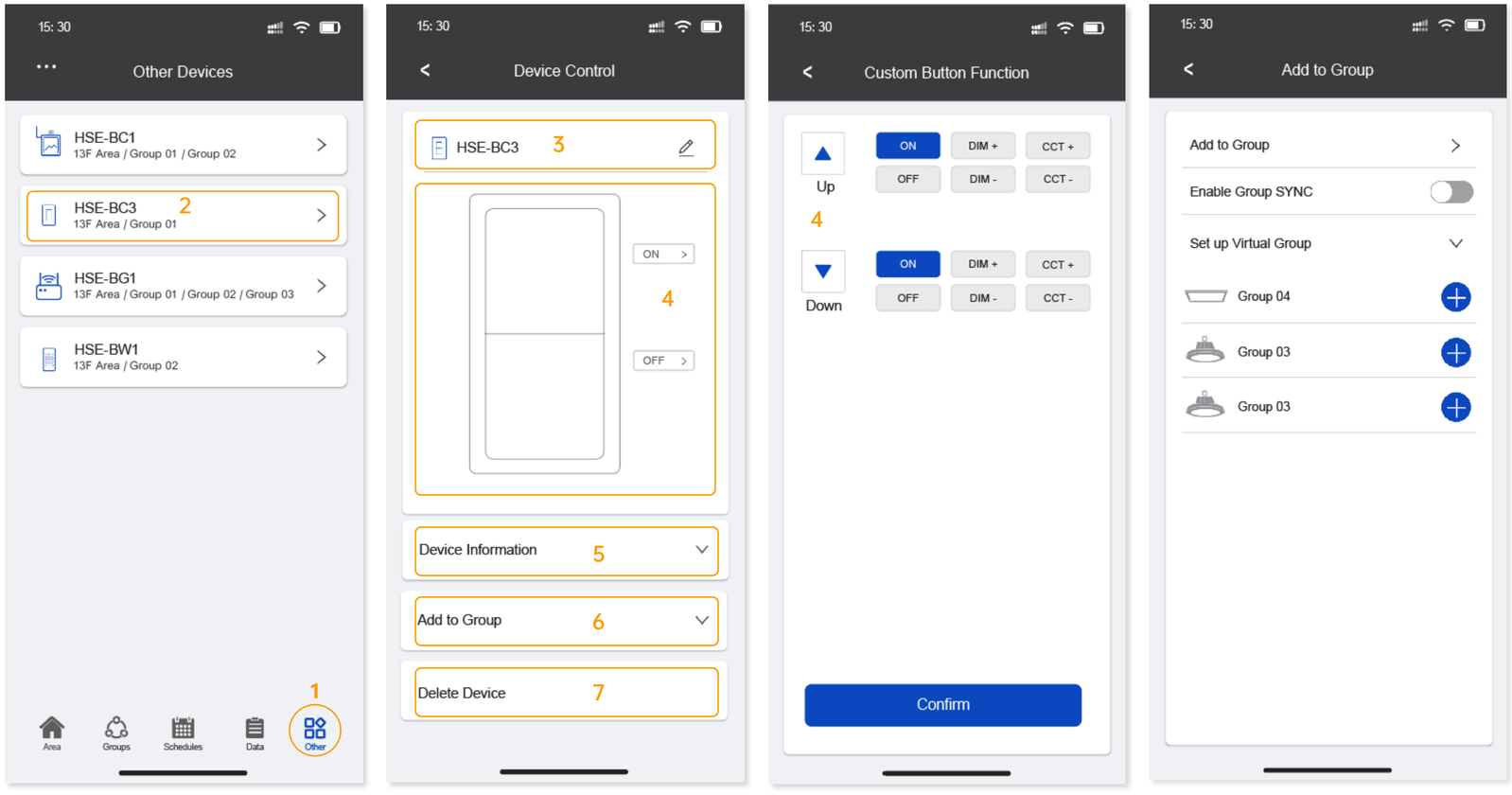
How to:

1. Switch to the Data Statistics main interface via the bottom navigation bar labeled **"Other"**.
2. Select the device you want to control.
3. In the Device Name bar, you can edit the device name.
4. Press **"Configure Network"** to open the network configuration interface. Enter the Wi-Fi name or select a Wi-Fi network, input the Wi-Fi password, then press the Confirm button to complete network configuration.
5. Press **"Device Information"** to upgrade the firmware/ control version and view detailed device information.
6. Press **"Add to Group"** to associate the device with different groups.
7. The device can be removed, and it will automatically return to the unnetworked state.

Smart Accessories (Self-powered Wall controls)

Purpose:

It enables intelligent and convenient control of lighting and related equipment via Bluetooth technology, meeting the needs for energy conservation, personalization, and more.

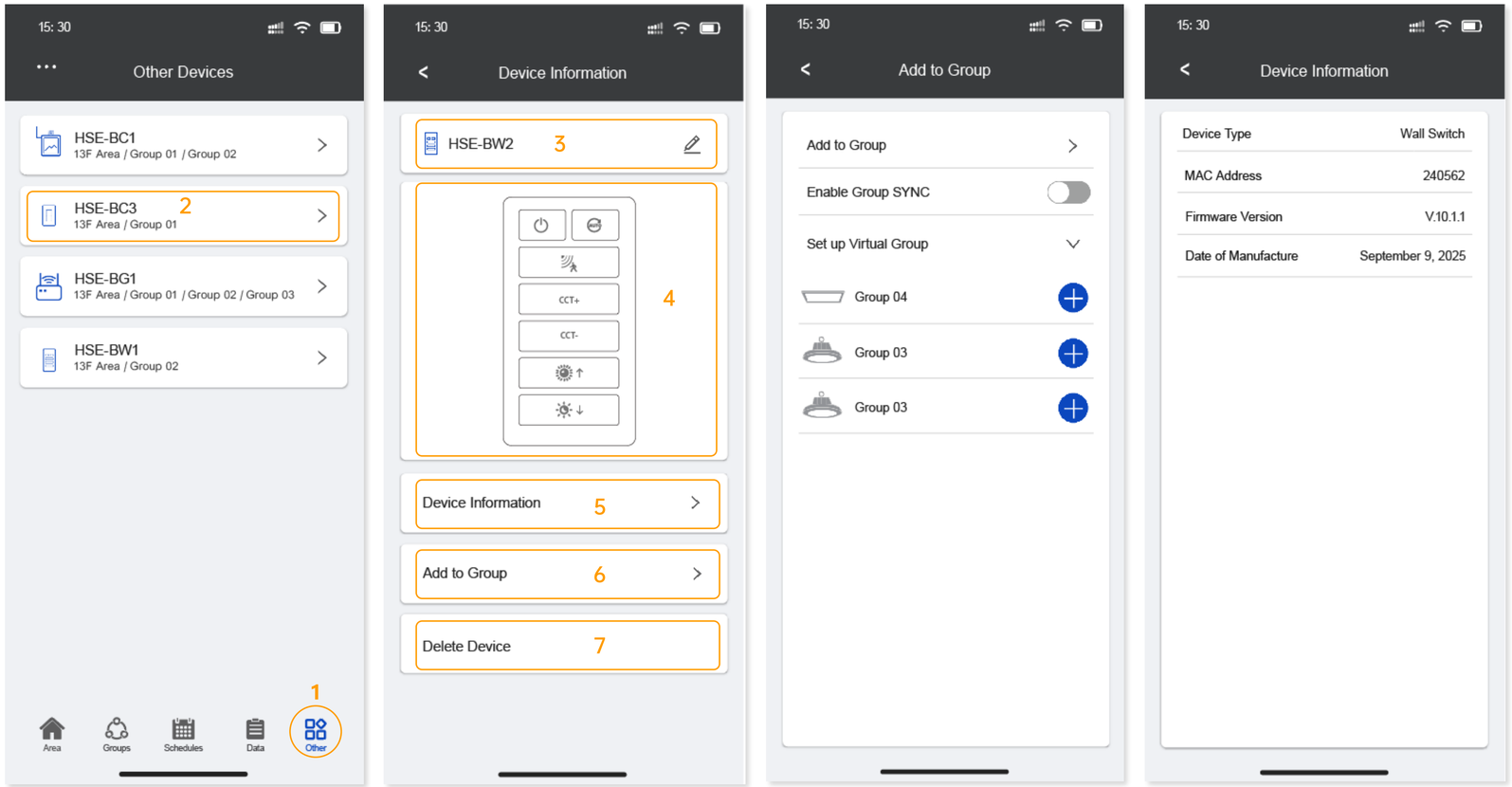


How to:

1. Switch to the Data Statistics main interface via the bottom navigation bar labeled **"Other"**.
2. Select the device you want to control.
3. In the Device Name bar, you can edit the device name.
4. In the control area, press the corresponding button to directly activate the function shown on the right side of the button; if you need to customize the function, press the content box on the right. After entering the function customization interface, select the corresponding function according to your needs.
5. Press **"Device Information"** to upgrade the firmware/ control version and view detailed device information.
6. Press **"Add to Group"** to associate the device with different groups.
7. The device can be removed, and it will automatically return to the unnetworked state.

Wall Switch

The HSE smart switch supports integration with the app, enabling independent control of individual lights or light groups



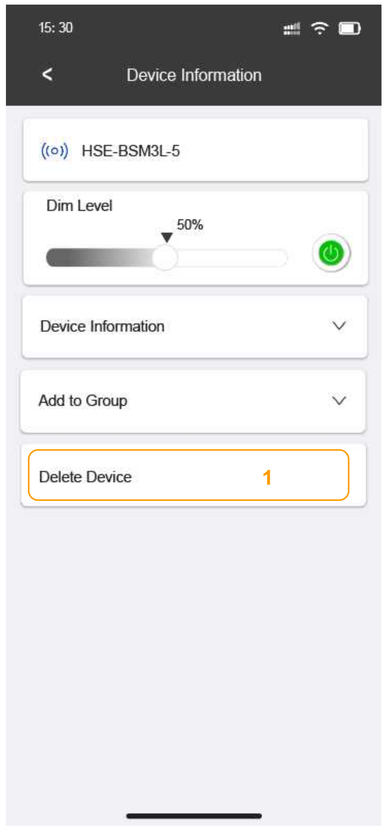
How to:

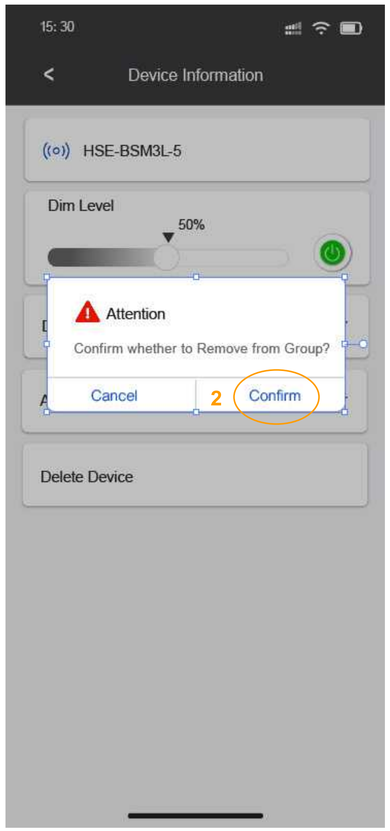
1. Switch to the Data Statistics main interface via the bottom navigation bar labeled **"Other"**.
2. Select the device you want to control.
3. In the Device Name bar, you can edit the device name.
4. In the control area, press the corresponding button to directly activate its function.
5. Press **"Device Information"** to upgrade the firmware/ control version and view detailed device information.
6. Press **"Add to Group"** to associate the device with different groups.
7. The device can be removed, and it will automatically return to the unnetworked state.

Sensor Recovery to Pairing Mode

1. Restore By Deleting Device Online

This is the simplest method. When a device is no longer needed, it can be deleted from the app's device information section using the **"Delete Device"** option.





2. Reset By Remote Control

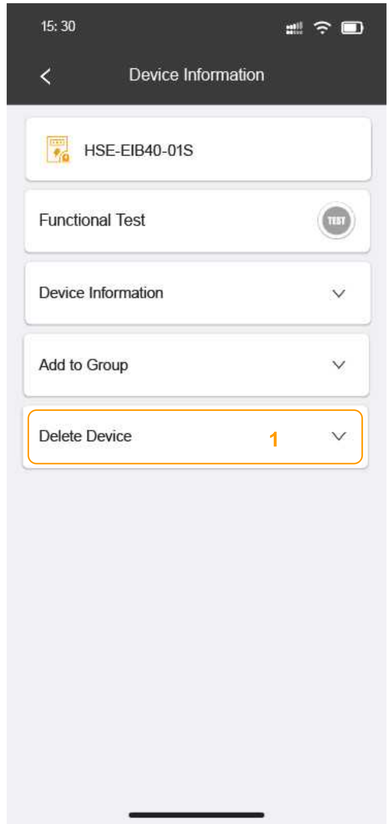
Press the **"Reset"**button. If the indicator light starts flashing and flashes slowly 3 times, it indicates that the reset is successful.

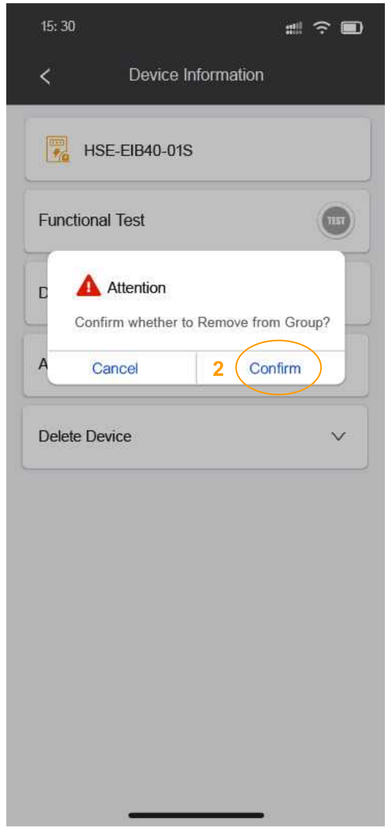
The device will enter pairing mode, and devices that support infrared will be available.

Emergency Driver Recovery to Pairing Mode

1. Restore by Online Device Removal

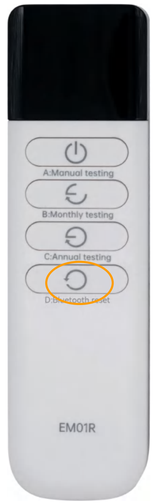
This is the simplest method. When a device is no longer needed, it can be deleted from the app's device information section using the **"Delete Device"** option.





2. Reset by Remote Control

Long - press the **"Bluetooth Reset"** button for 10s to achieve a successful reset.



3. Reset by Product Test Button

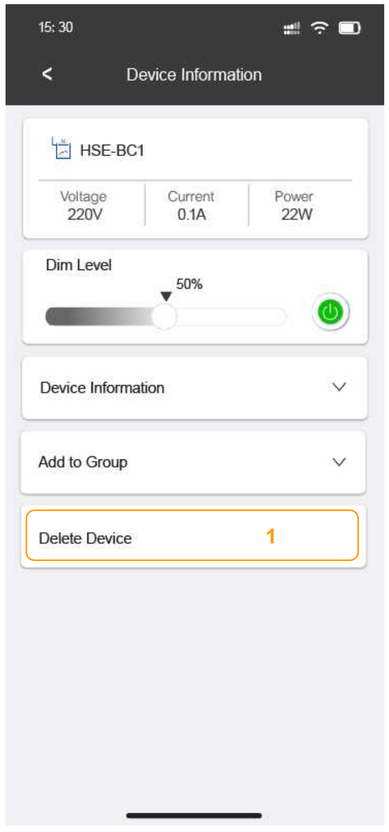
Press the built - in test button of the product. Press the button continuously 5 times or more within 5 seconds to trigger the Bluetooth reset function.

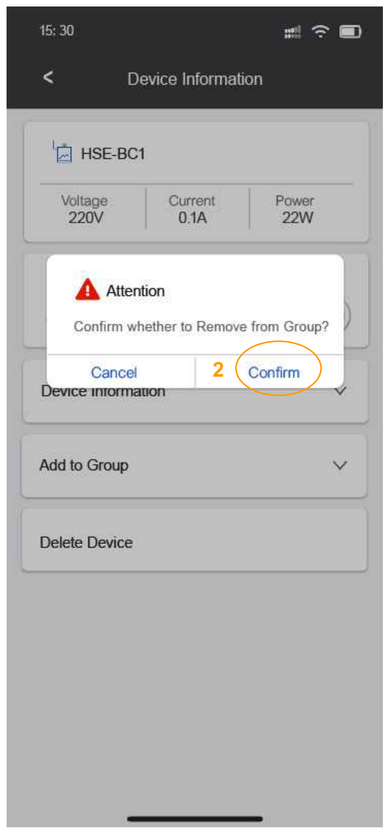
The test buttons may vary in appearance across different products, generally classifiable into three types. However, regardless of the product, the operation method for these buttons is consistent.

Controller Recovery to Pairing Mode

1. Restore by Online Device Removal

This is the simplest method. When a device is no longer needed, it can be deleted from the app's device information section using the **"Delete device"** option.





2. Reset by Product Test Button (Zone Controller)

- Long - press the button at the bottom of the product for 2s to trigger the Bluetooth reset function.

- After a successful reset, simply press the switch to restart the device if you need to enable it again.

2. Restore by Reset Button Module (Fixture Controller)

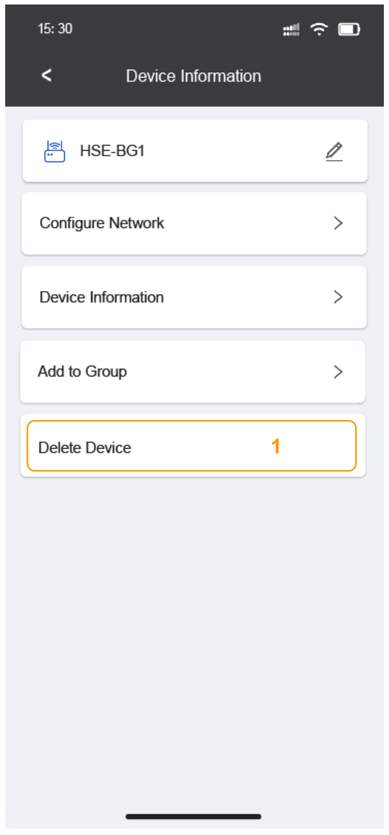
Reset via remote control:

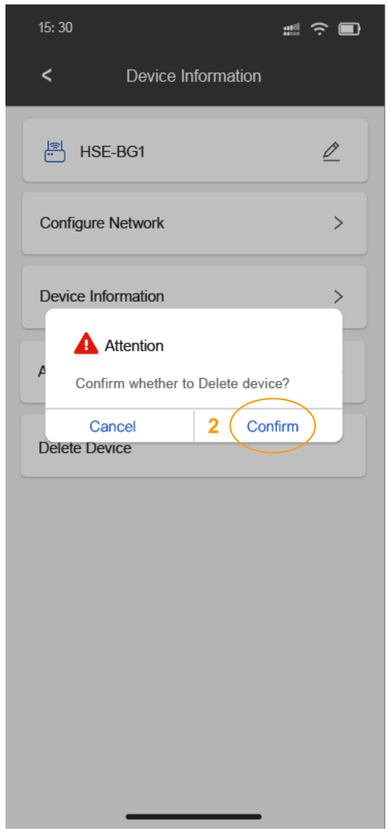
1. Press the "Reset" button.
2. If the indicator light starts flashing and slows down to flash 3 times, the reset is successful.

Gateway Recovery to Pairing Mode

1. Restore by Online Device Removal

This is the simplest method. When a device is no longer needed, it can be deleted from the app's device information section using the **"Delete Device"** option.





2. Reset via the side button of the product

Long - press the side button for 2s to trigger the Bluetooth reset function.

USB Dongle

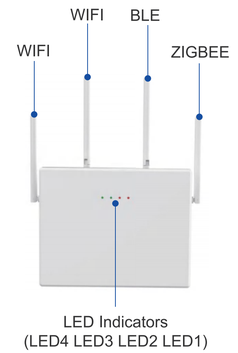
- Integrating a PA (Power Amplifier) function, the device can act as a signal repeater, effectively expanding the signal transmission range and enhancing stability.
- Signal conversion: It can capture data packets, convert them into USB serial port signals recognizable by the computer, and cooperate with the host computer for control.

High - performance Intelligent Gateway Solution

Multi - protocol Support

- Wi - Fi: Supports both 2.4 GHz and 5 GHz dual - bands, fully compliant with the IEEE 802 standard, ensuring high - speed and stable wireless network connections.
- Bluetooth: Operates in the 2.4 GHz band, integrates PA (Power Amplifier), significantly enhancing the control distance of Bluetooth connections. It supports BLE technology, enabling flexible and intelligent device interconnection.
- Ethernet: Provides a reliable wired connection option to meet the needs of diverse scenarios.

PRODUCT STRUCTURE



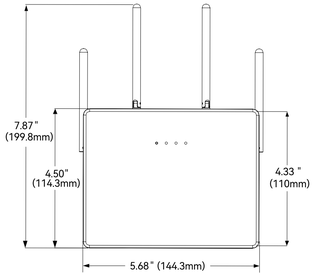
LED Indicators

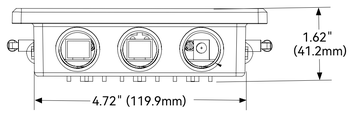
LED1 Function Normal
BLE: Steady on
RES: NG (Flashing)

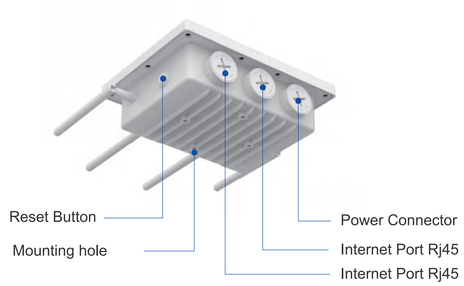
LED2 LAN Signal
None: Not connected / Cannot be inserted
Red: Fault (Flashing)
Blue: OK (Solid On)

LED3 BLE Status
Red: Waiting for network configuration (Flashing)
Blue: Network configured (Solid On)

LED4 WIFI
Red: Waiting for network configuration (Flashing)
Blue: Network configured (Solid On)







Function toggle (light tap)
BLE: BLE status light flashing
WIFI: The WIFI status light is flashing.

Working Modes of Indicator Lights and Their Corresponding Functions

Indicator Light Working Modes:

- Rapid flash: Flashes at 1Hz (0.5s on, 0.5s off).
- Slow flash: Flashes at 0.5Hz (1s on, 1s off).
- Single flash: A single blink (0.2s on, 0.3s off).
- Continuous on: Steady illumination.

Indicator Status Under Different Functions:

- Network configurable: Flashes rapidly 20 times during power - up.
- Network configured: Remains lit for 20s after power - up.
- OTA in progress: Flashes slowly.
- OTA failure: Flashes rapidly 10 times.
- Parameter received: A single flash.
- Device pairing: Flashes rapidly 3 times.
- Device removal (reset): Flashes slowly 5 times.
- Group association: A single flash.
- Contact association: A single flash.

THANKS

24hrs Service Call

Whatsapp: +8613410390591

72hrs On-Site Service

info@hsesmartinc.com