Xiaolei

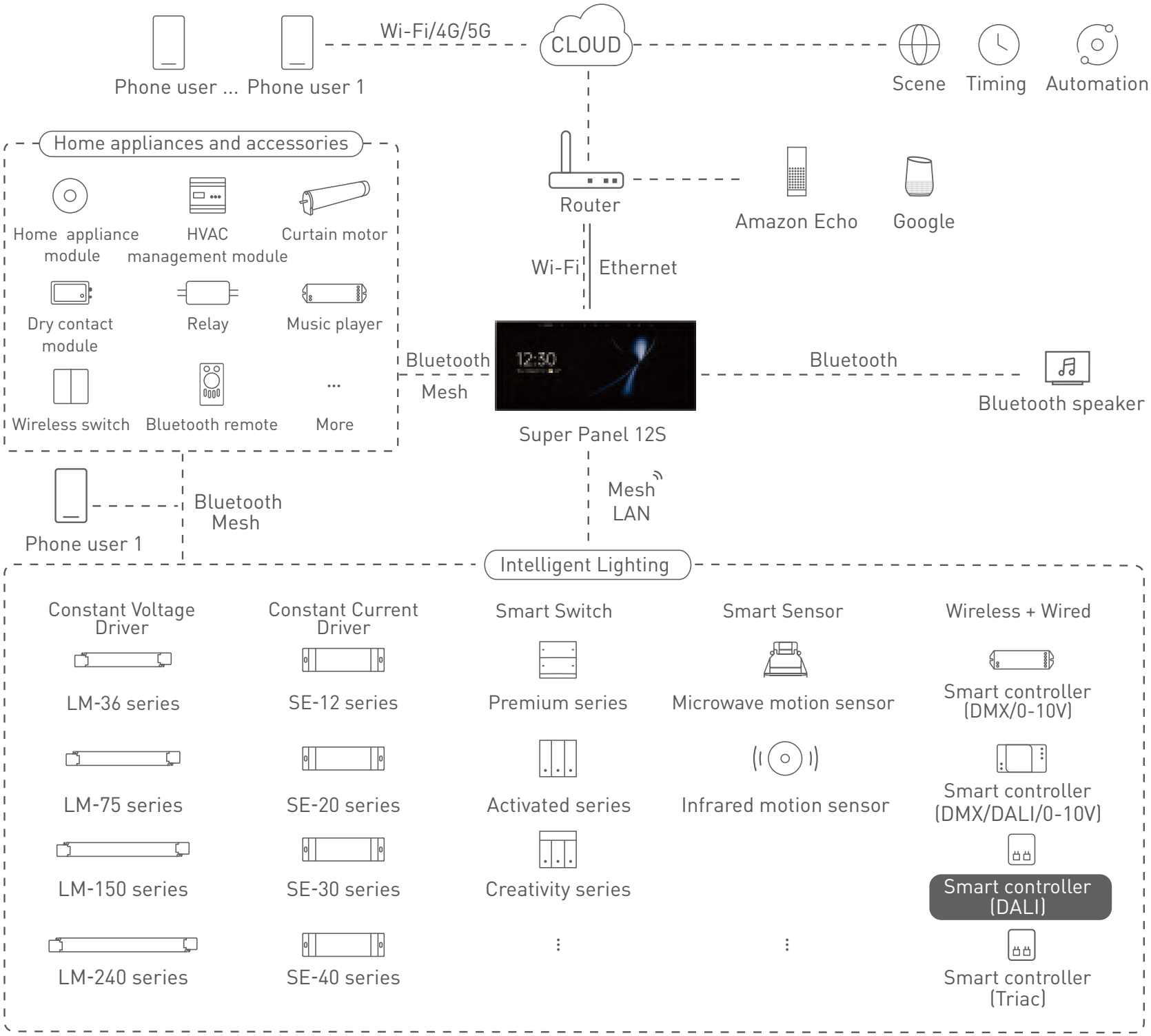
# Smart Controller

Model: CG-D

Manual

www.xiaolei.com.cn

# Application Diagram



# Product Features

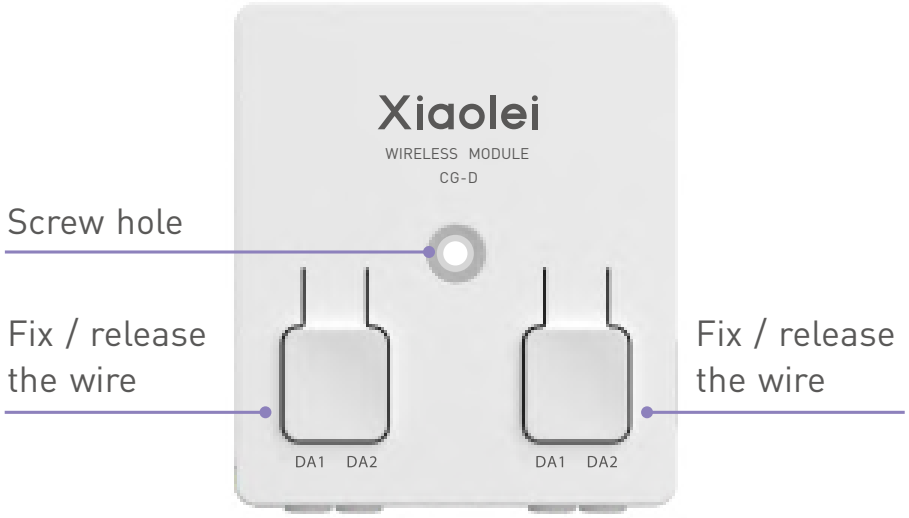
- Small size and light weight. The housing is made from SAMSUNG/COVESTRO's V0 flame retardant PC materials.
- Bluetooth 5.0 SIG Mesh with high networking capacity is reliable and stable.
- Convert Bluetooth to DALI signal; wireless and wired protocol work together.
- DALI bus power supply: 12 - 22.5Vdc.
- Compatible with DIM, CT, RGB lights and control output.
- Control it on IOS or Android devices via Bluetooth.
- Support online upgrade. With ultra-low power consumption, it can be continuously powered on and off to reset it to factory defaults.
- Setting the soft start time and lighting status is supported.
- Support the execution of local scenes without the Internet or a gateway, which is faster and more stable.
- Work with a smart gateway to achieve various cloud scenes, cloud-based automation, and loca automation.

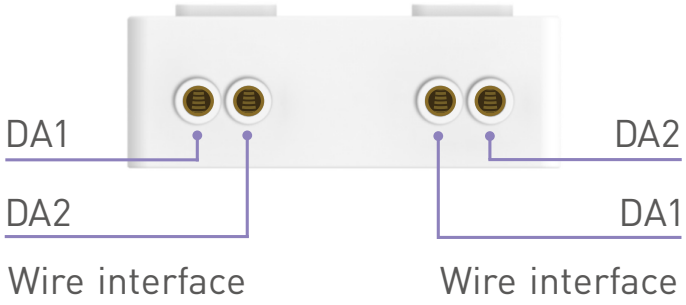
# Technical Specs

| | |
|---|---|
| Model | CG-D |
| Wireless Protocol Type | Bluetooth 5.0 SIG Mesh |
| Output Signal | DALI |
| Input Voltage | 12-22.5Vdc |
| Working Temperature | -20°C~55°C |
| Product Size(L×W×H) | L52×W59×H20(mm) |
| Package Size(L×W×H) | L86×W86×H25(mm) |
| Weight (G.W.) | 40g |

Bluetooth® FC CE RoHS

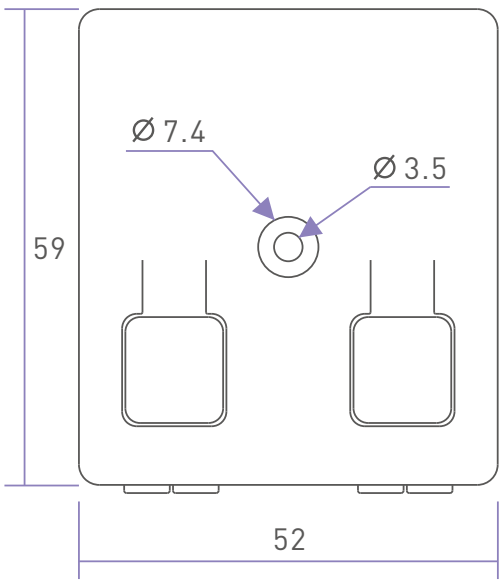
# Product Images

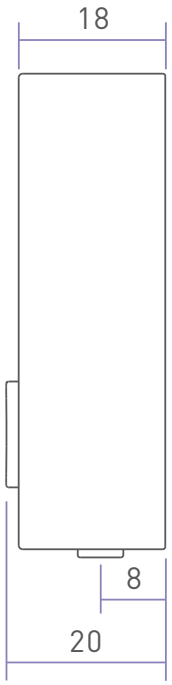


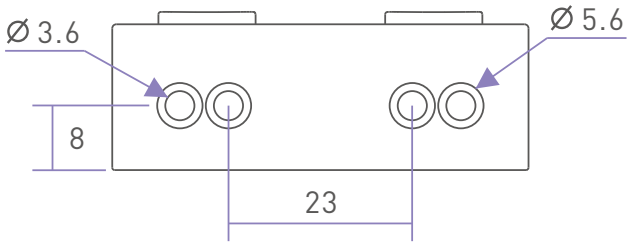




# Product Size

Unit: mm

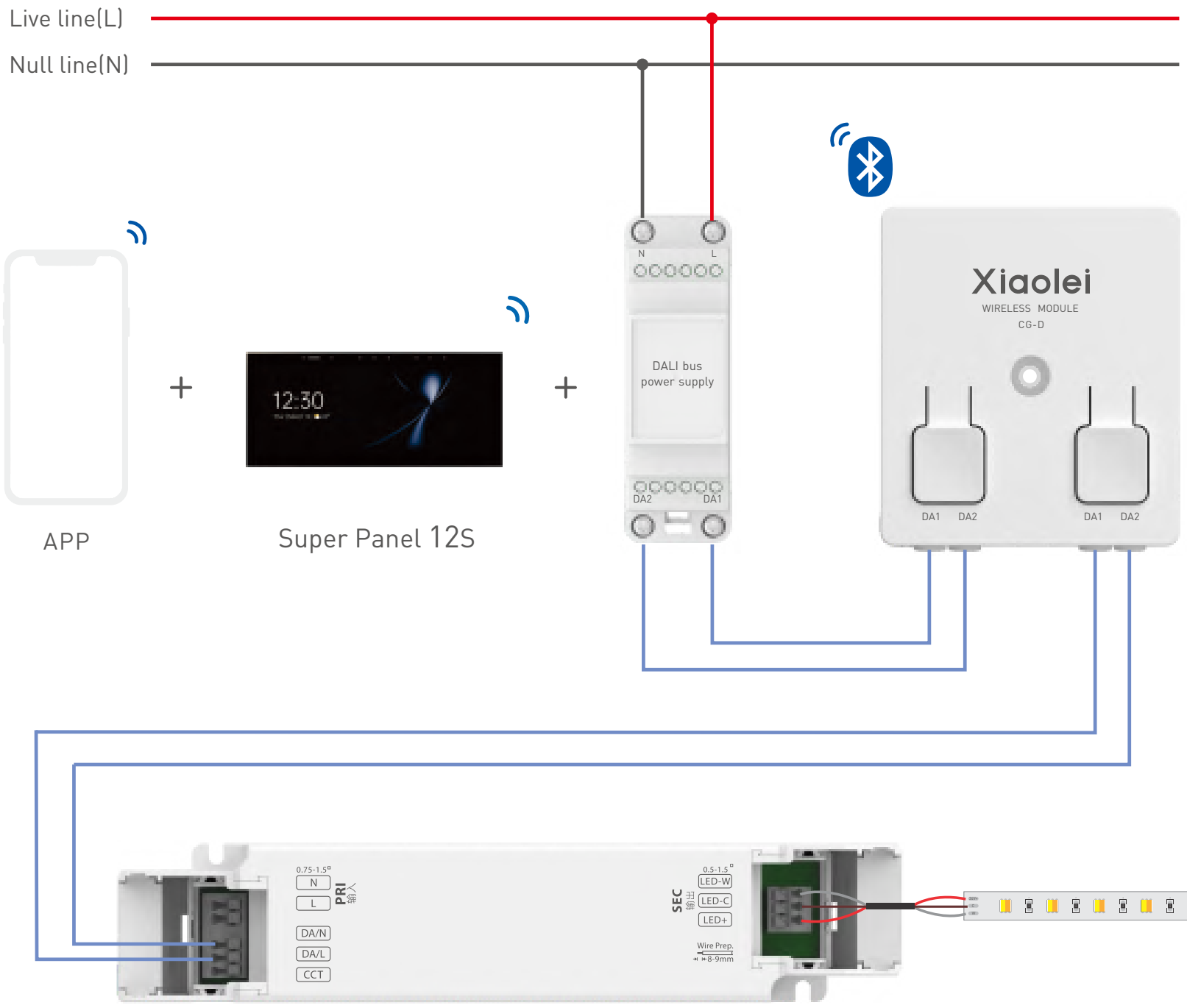


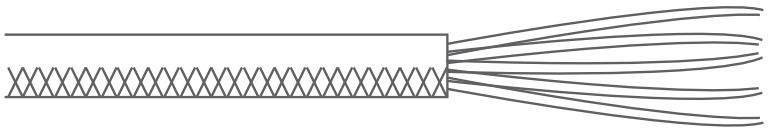



# Wiring Diagram

APP + Super Panel 12S + DALI bus power supply + Smart controller + DALI driver.



# Wire Specifications



Thin multi-strand wires
Stranded wires may have burrs and barbs, which cause jamming during wire removal. This leads to excessive force applied to the button, resulting in damage to the terminals.

Thin multi-strand wires + Soldering
The solder may have burrs and barbs, which cause jamming during wire removal. This leads to excessive force applied to the button, resulting in damage to the terminals.

Single strand wire
Wire diameter: 0.5-0.75□(AWG 20-18)
Stripping length: 6-8mm

Thin multi-strand wires with an insulated cold-welded ferrule
It is recommended to use the Wago brand
Model: 216-241 marked ferrule, wire diameter: 0.5□(AWG 20)
Model: 216-242 marked ferrule, wire diameter: 0.75□(AWG 18)
Stripping length: 6-8mm

# Wire Connection

Connect wires: Turn off the power before connecting wires. Make wires parallel to the wire port, then insert wires into the corresponding terminal until wires are locked.

Release wires: Turn off the power before releasing wires. Press and hold the button on the top and gently pull the wires out.

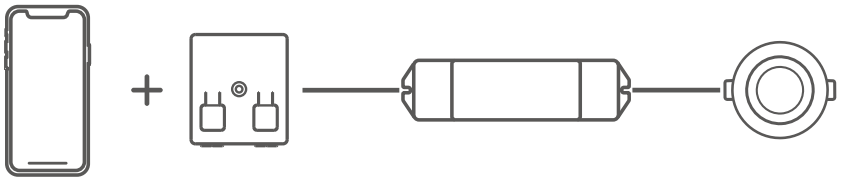
Attentions:

1.Please connect the wires based on the wire specifications. Otherwise the terminals will be easily damaged if the wire diameter is too big;

2.Press the terminals with proper force and keep it vertically downward.

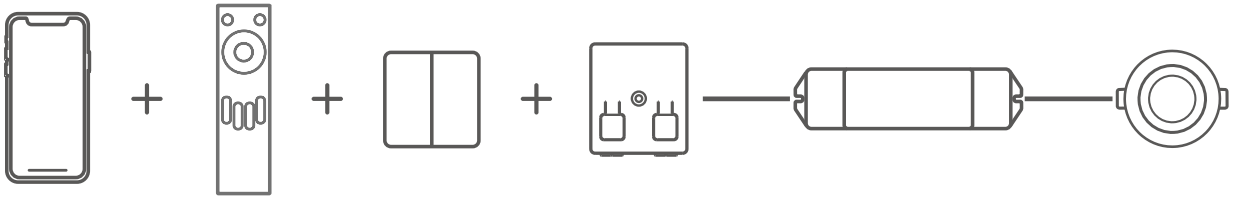
# Recommended Applications

1. Wireless control.



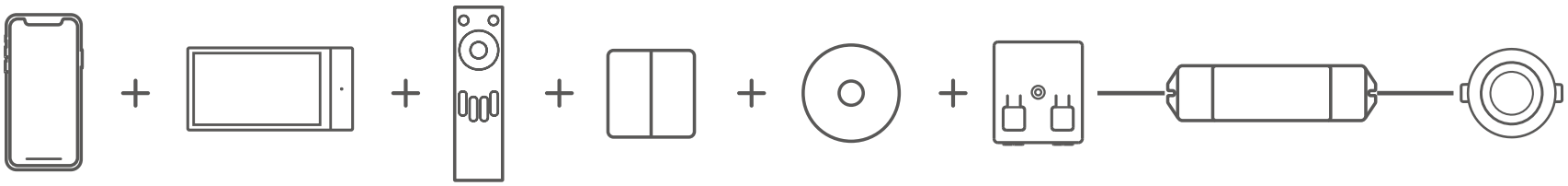
APP Smart controller DALI driver Lamp

2. Both App and remote can control the smart controller after connecting the remote to the driver via App.



APP Remote Wireless switch Smart controller DALI driver Lamp

3. Visual control + remote control of traditional panels.



APP Super Panel 6s Remote Wireless switch Home appliance module Smart controller DALI driver Lamp

4. More applications of intelligent control are waiting for you to set up.

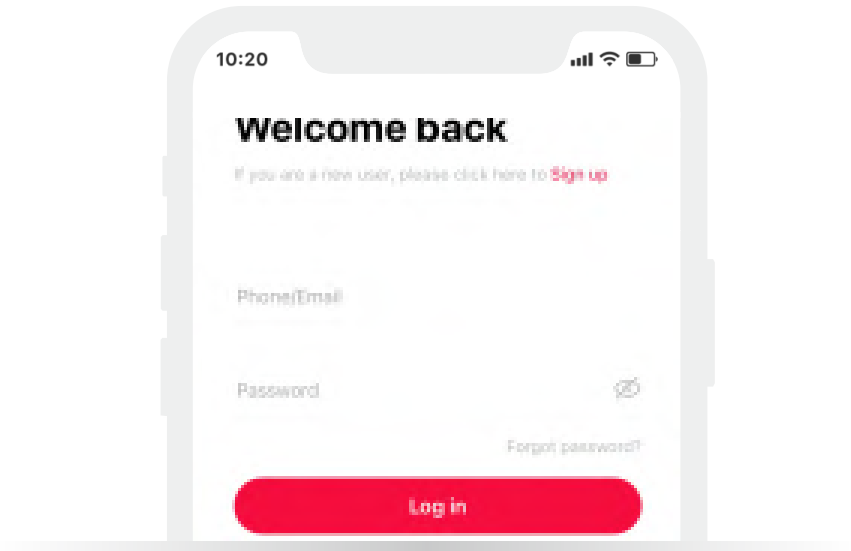
# App Operating Instructions

## 1. Register an account

1.1 Scan the QR code below with you mobile phone and follow the prompts to complete the app installation.

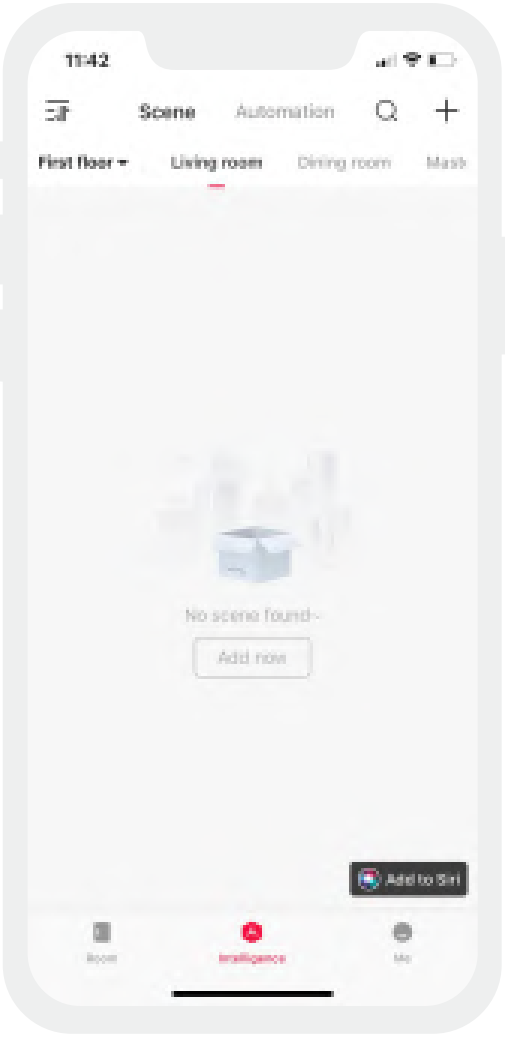
Scan and download the App

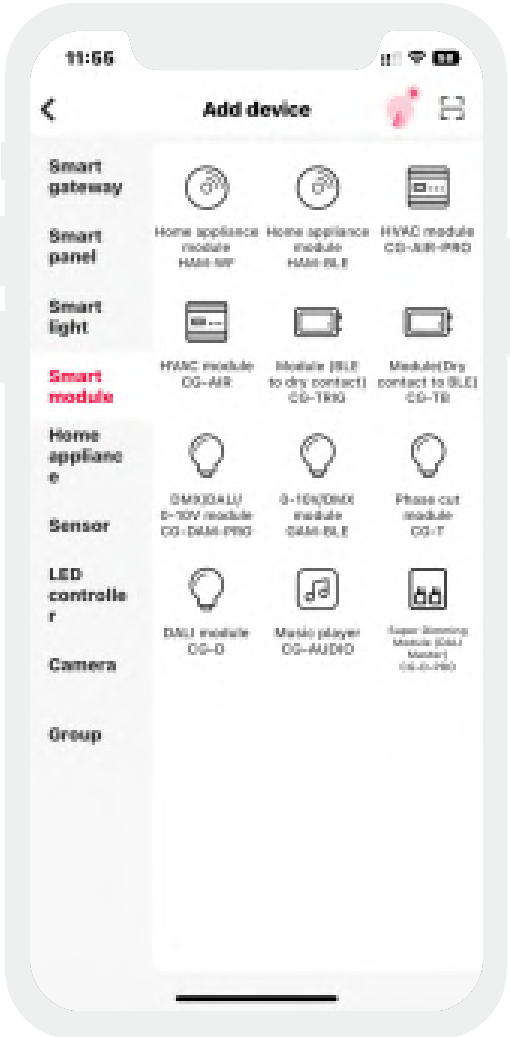
1.2 Open the App and log in or register an account.

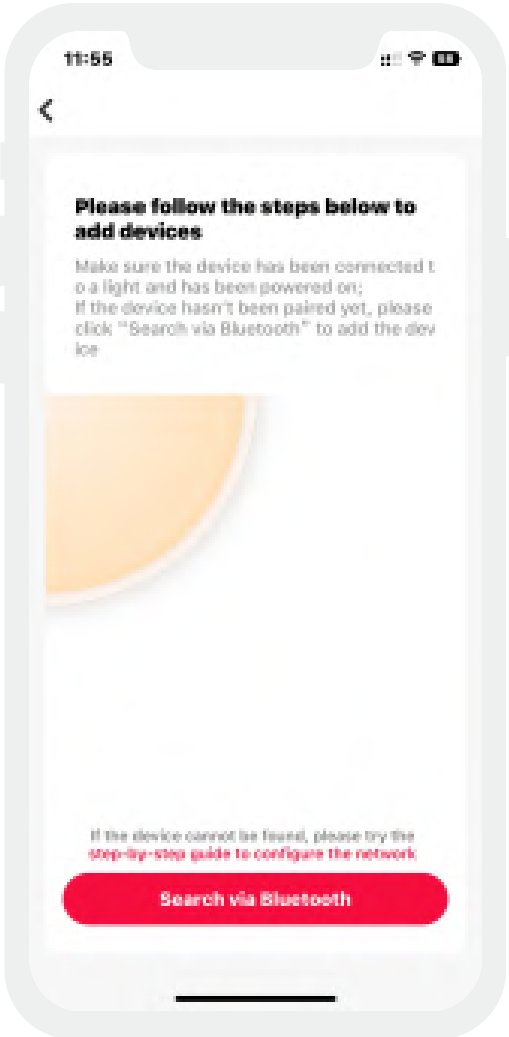


## 2. Pairing instructions

Create a home if you are a new user. Click“ + ”icon in the upper right corner and access the “Add device” page. Pick “Smart module” - “DALI module” from the list. Follow the prompts to connect the device to a lamp first, then power it on. Next click “Search via Bluetooth ” to add the device.

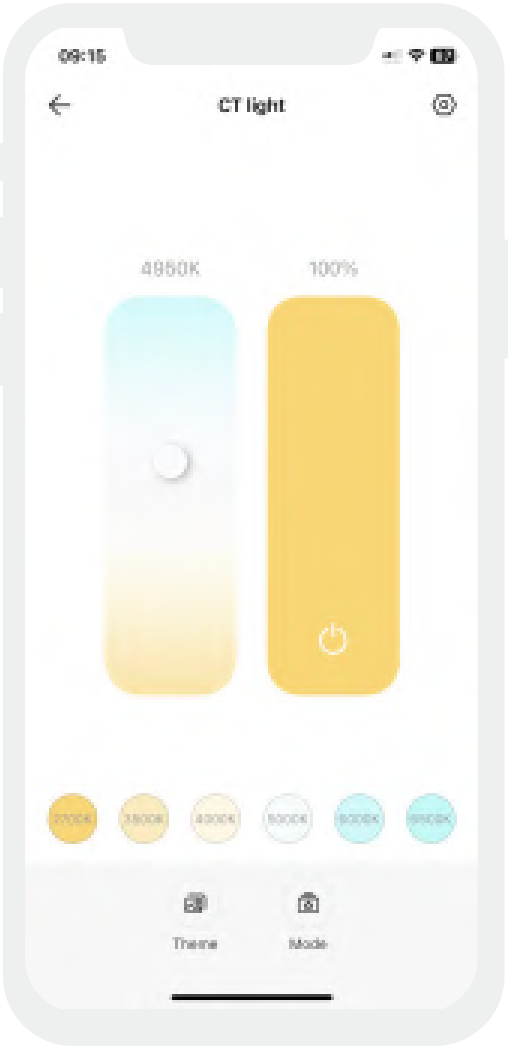


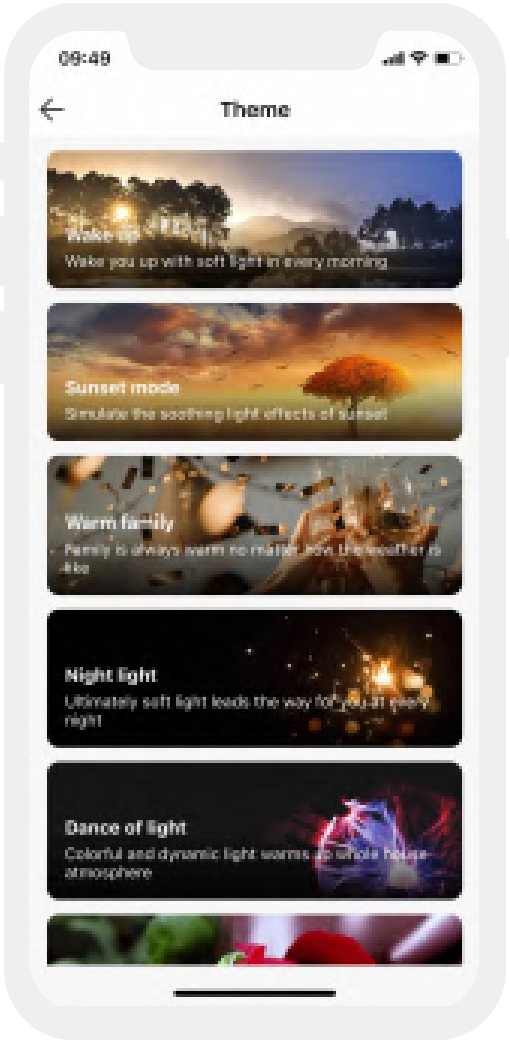



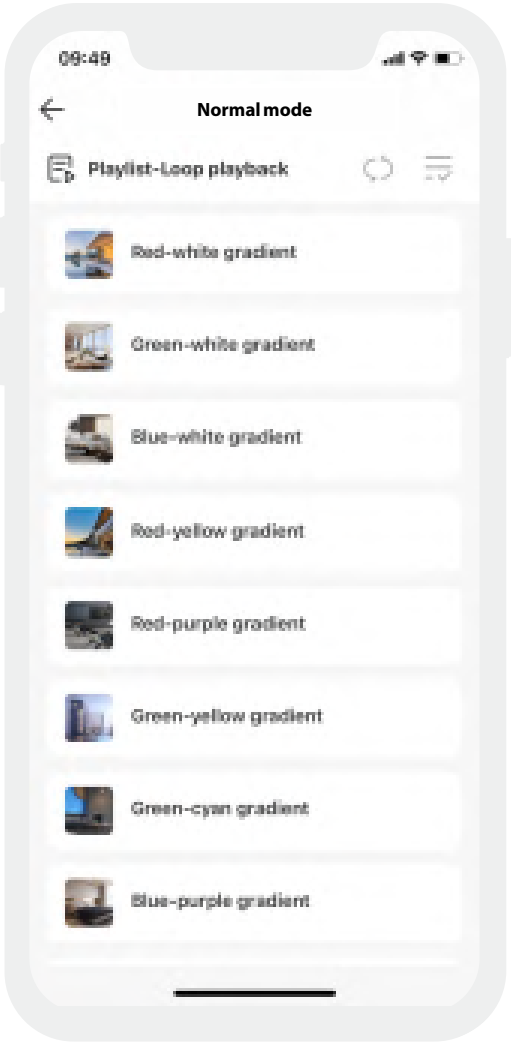



# 3.Control interface settings

After pairing your device, go to the control interface. You'll be able to achieve your desired lighting effects by changing brightness, colors and color temperature. Click“Theme”and you’ll easily switch to multiple theme lighting effects with one tap. Click“Mode”and the App provides you editable advanced modes.
Customize dynamic modes to put you into a more colorful life.



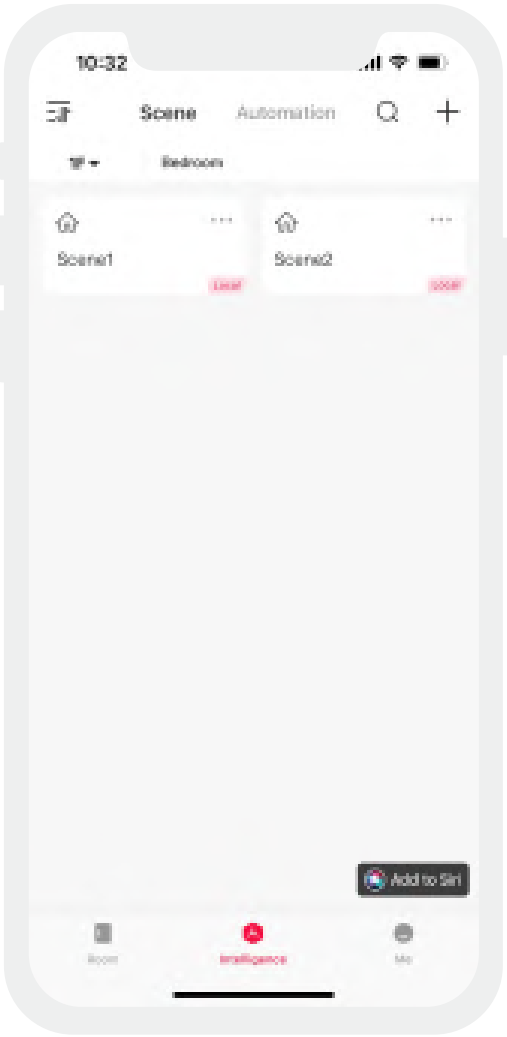



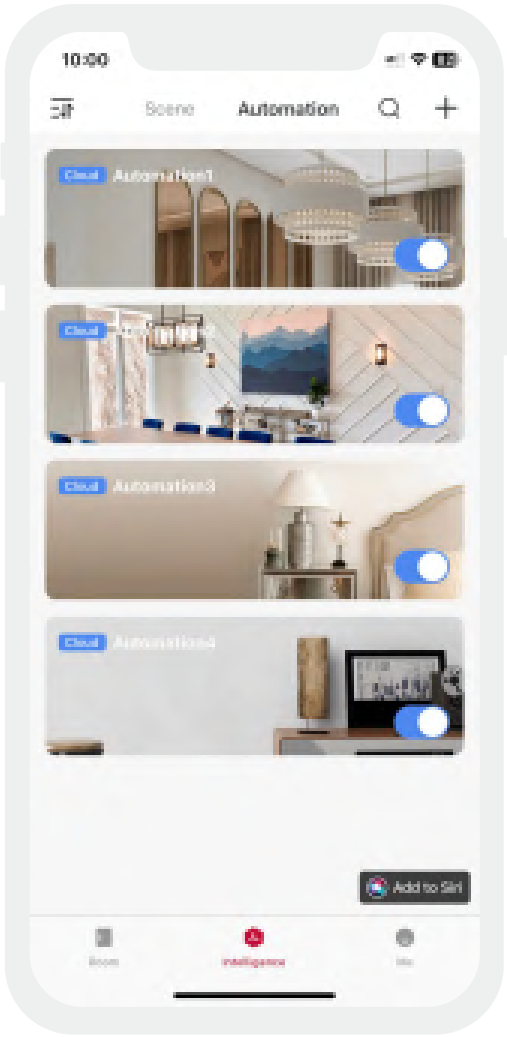



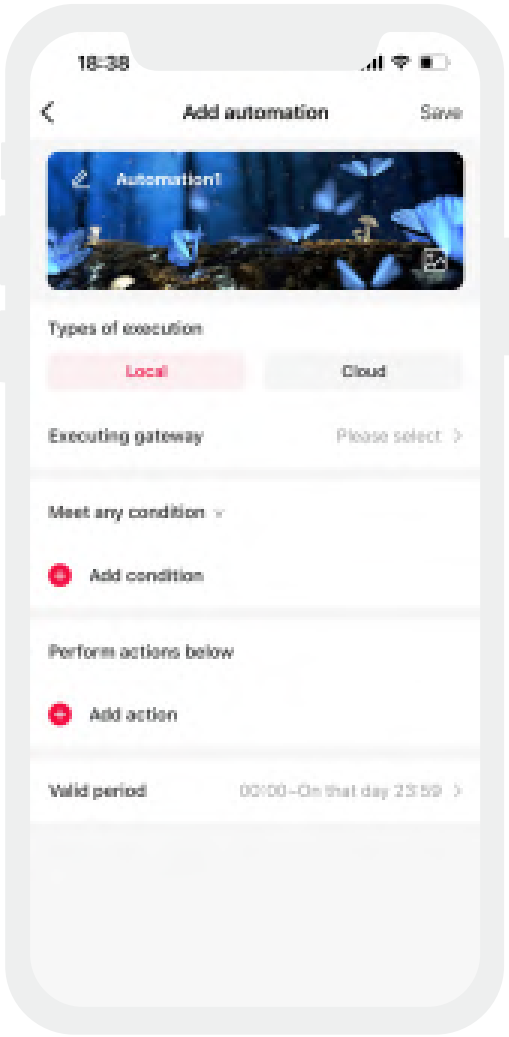
# 4. Advanced functions

4.1 Control the wireless module locally by linking it with a local scene.

4.2 Add a smart gateway like Super Panel 12S to achieve a variety of cloud scenes, cloud-based automation and local automation. For details, please view the instructions in the APP.



# FAQs

**1. What should I do if I fail to search the device via APP?**

Please check below:

1.1 Please make sure the device is powered on normally and is in the activated state.

1.2 Please keep you mobile phone and device as close as possible. The recommended distance between them is no more than 15 meters.

1.3 Please make sure the device hasn't been added yet. If it has, please reset the device to factory defaults manually.

**2. How to reset the device to factory defaults?**

Make sure the smart controller is connected to a lamp and the lamp remains on. Tun it off with the switch. After 10s, turn it on. After 5s, turn it off again. Repeat the same operation 6 times. When the lamp flashes 5 times, reset it to factory defaults successfully.

# Attentions

- Product installation and commissioning should be done by a qualified professional.
- LTECH products are and not lightningproof non-waterproof (special models excepted). Please avoid the sun and rain. When installed outdoors, please ensure they are mounted in a water proof enclosure or in an area equipped with lightning protection devices.
- Good heat dissipation will prolong the working life of products. Please ensure good ventilation.
- Please check if the working voltage used complies with the parameter requirements of products.
- The diameter of wire used must be able to load the light fixtures you connect and ensure the firm wiring.
- Before you power on products, please make sure all the wiring is correct in case of incorrect connection that causes damage to light fixtures.
- If a fault occurs, please do not attempt to fix products by yourself. If you have any question, please contact your suppliers.

* This manual is subject to changes without further notice. Product functions depend on the goods. Please feel free to contact our official distributors if you have any question.

# Warranty Agreement

Warranty periods from the date of delivery : 5 years.
Free repair or replacement services for quality problems are provided within warranty periods.

Warranty exclusions below:
Following conditions are not within the guarantee range of free repairing or replacement services:

- Beyond warranty periods.
- Any artificial damage caused by high voltage, overload, or improper operations.
- Products with severe physical damage.
- Damage caused by natural disasters and force majeure.
- Warranty labels and barcodes have been damaged.
- No any contract signed by LTECH.

1. Repair or replacement provided is the only remedy for customers. LTECH is not liable for any incidental or consequential damage unless it is within the law.
2. LTECH has the right to amend or adjust the terms of this warranty, and release in written form shall prevail.