LED CONTROLLER

B2-8A | Bluetooth 5.2 SIG Mesh

Bluetooth 2-wire color temperature LED controller

- Compact size and lightweight, with a housing made of Covestro/ Samsung PC flame-retardant V0-grade material.
- 2-channel constant voltage and constant power output, suitable for 2-wire WW CW LED strips;
- Soft start and gradual brightening function, providing more comfortable visual experience for the eyes.
- Bluetooth 5.2 SIG Mesh communication protocol, offering strong networking capabilities, reliability, and stability.
- Compatible with Bluetooth remote controls.
- Through the L-Home APP, wireless remote control is also possible. When paired with a smart gateway, it enables rich automation control and cloud scenes.
- Supports OTA upgrades, local scenes, circadian lighting, and synchronized dynamic mode groups.
- It can be applied to crystal lamp chandelier dimming and color grading, two-wire color temperature light strip.



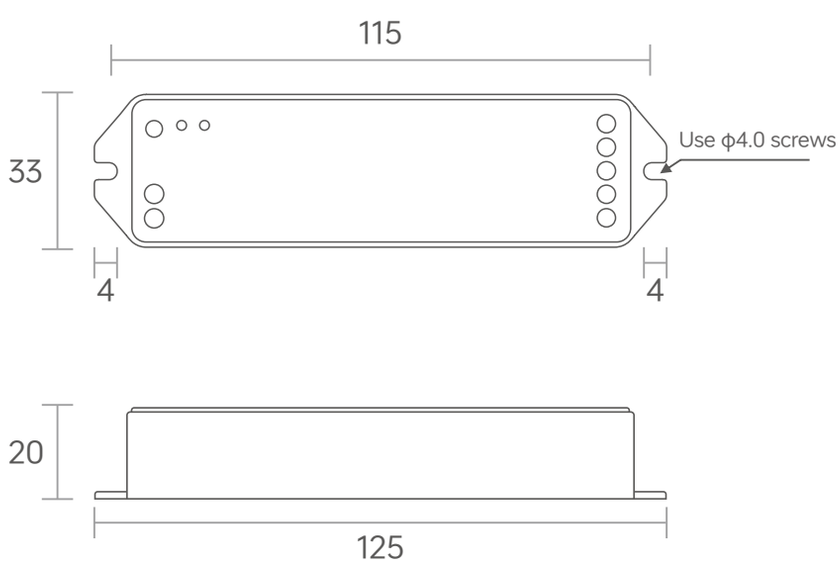
Bluetooth® FC CE RoHS

Technical parameters

Model	B2-8A
Input Signal	Bluetooth 5.2 SIG Mesh
Input Voltage	12-24V ⎓
Output Voltage	12-24V ⎓
Load Current	Max.8A
Load Power	96-192W
Working Temp	-25°C ~ 50°C
Product Dimensions	125×33×20mm(L×W×H)
Packaging Dimensions	127×35×24mm(L×W×H)
Weight (Gross Weight)	58g

Dimensional Drawing

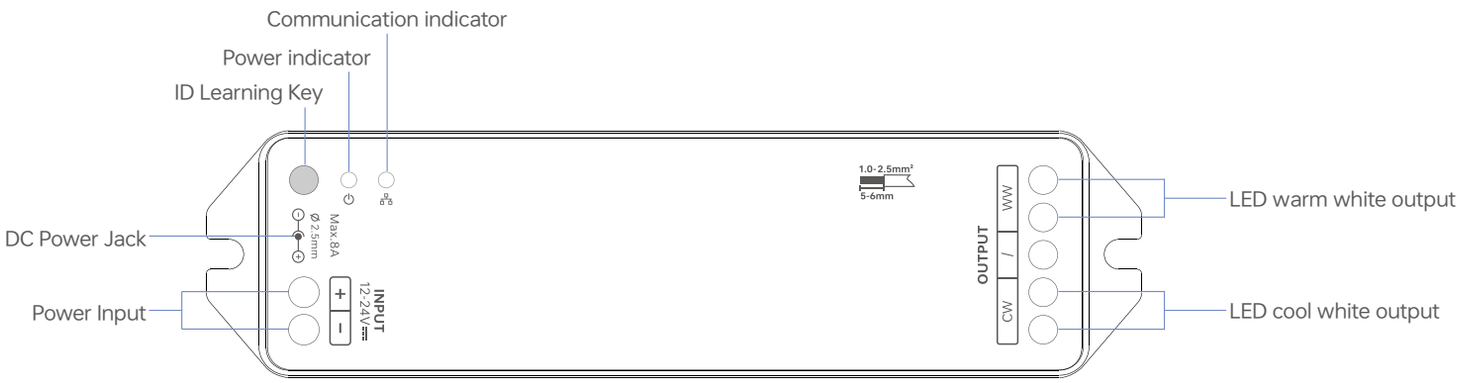
Unit: mm



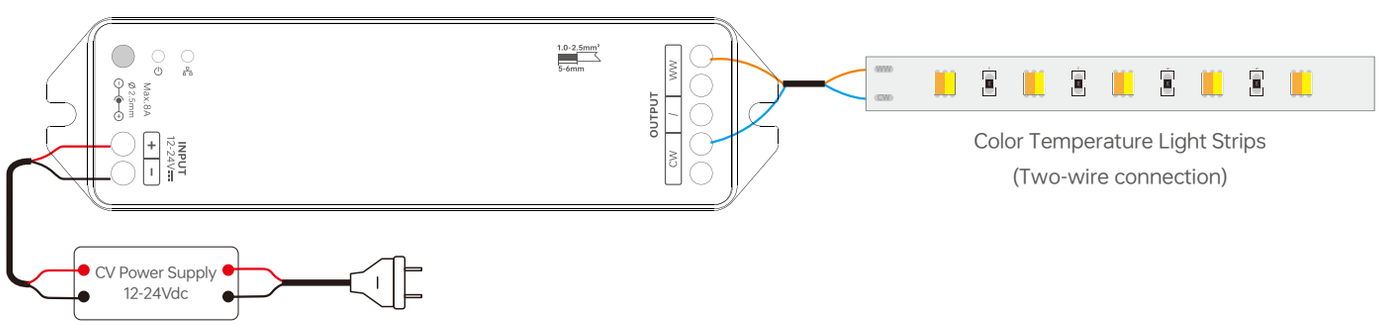
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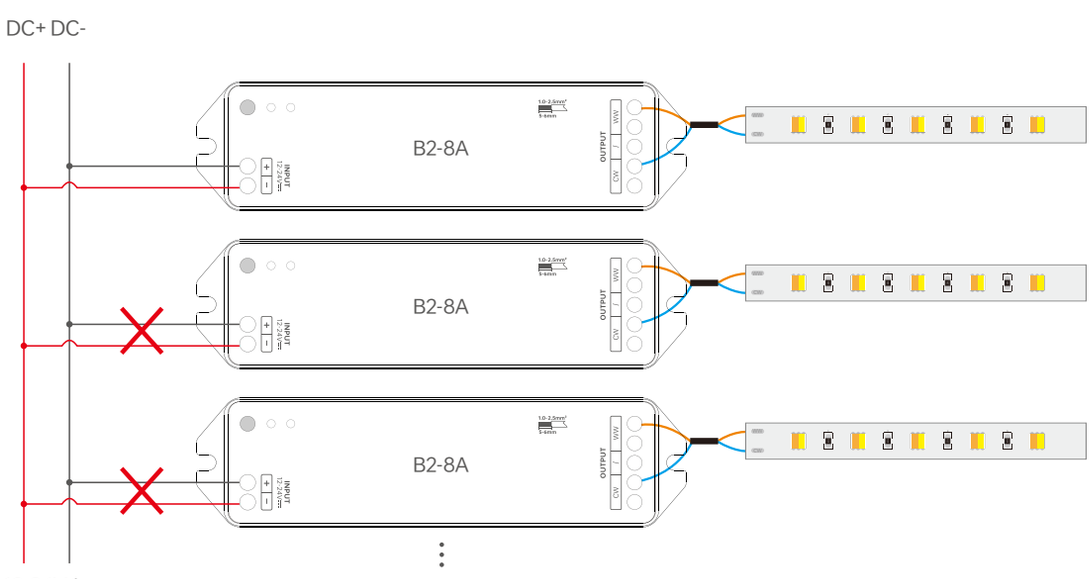
B2-8A Bluetooth 5.2 SIG Mesh

Product Image



Wiring Diagram



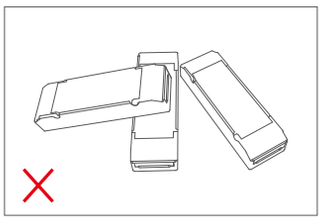


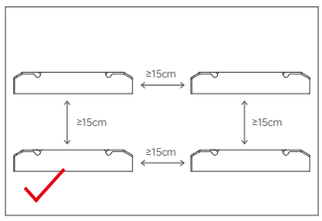
Note: Each unit must be connected to its own power supply and must not be powered alongside other units; otherwise, the load indicator light will flash.

LED CONTROLLER

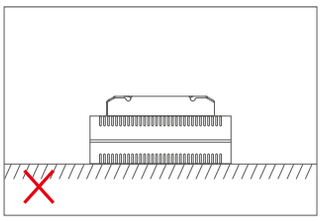
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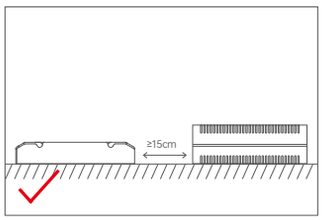
Installation Precautions



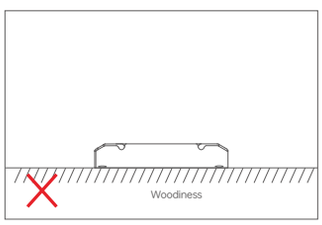


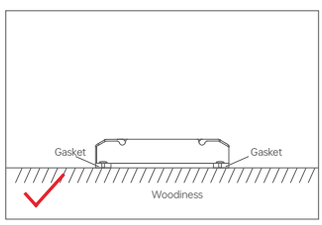
Please do not stack the products. The distance between two products should be ≥15cm so as not to affect heat dissipation and the lifespan of the products.



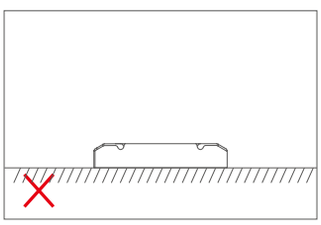


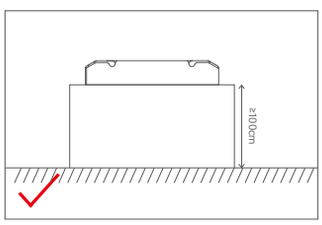
Please do not place the products on the floor. The distance between the product and the floor should be ≥100cm so as to avoid signal interference.



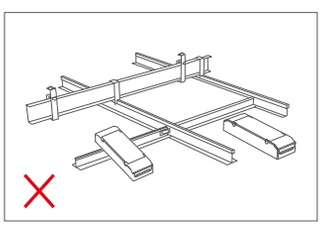


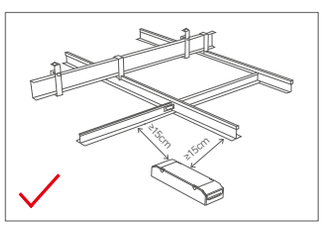
Do not fix the product tightly against the wooden board with screws. Please add a washer ≥7 mm thick under the mounting screws to leave a gap for effective heat dissipation, so as to avoid affecting the heat dissipation and service life of the product.



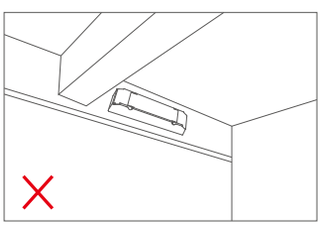


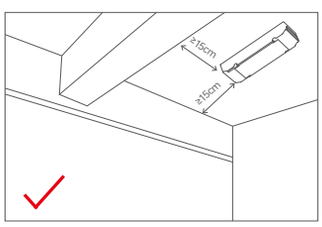
Please do not place the products on the floor. The distance between the product and the floor should be ≥100cm so as to avoid signal interference.





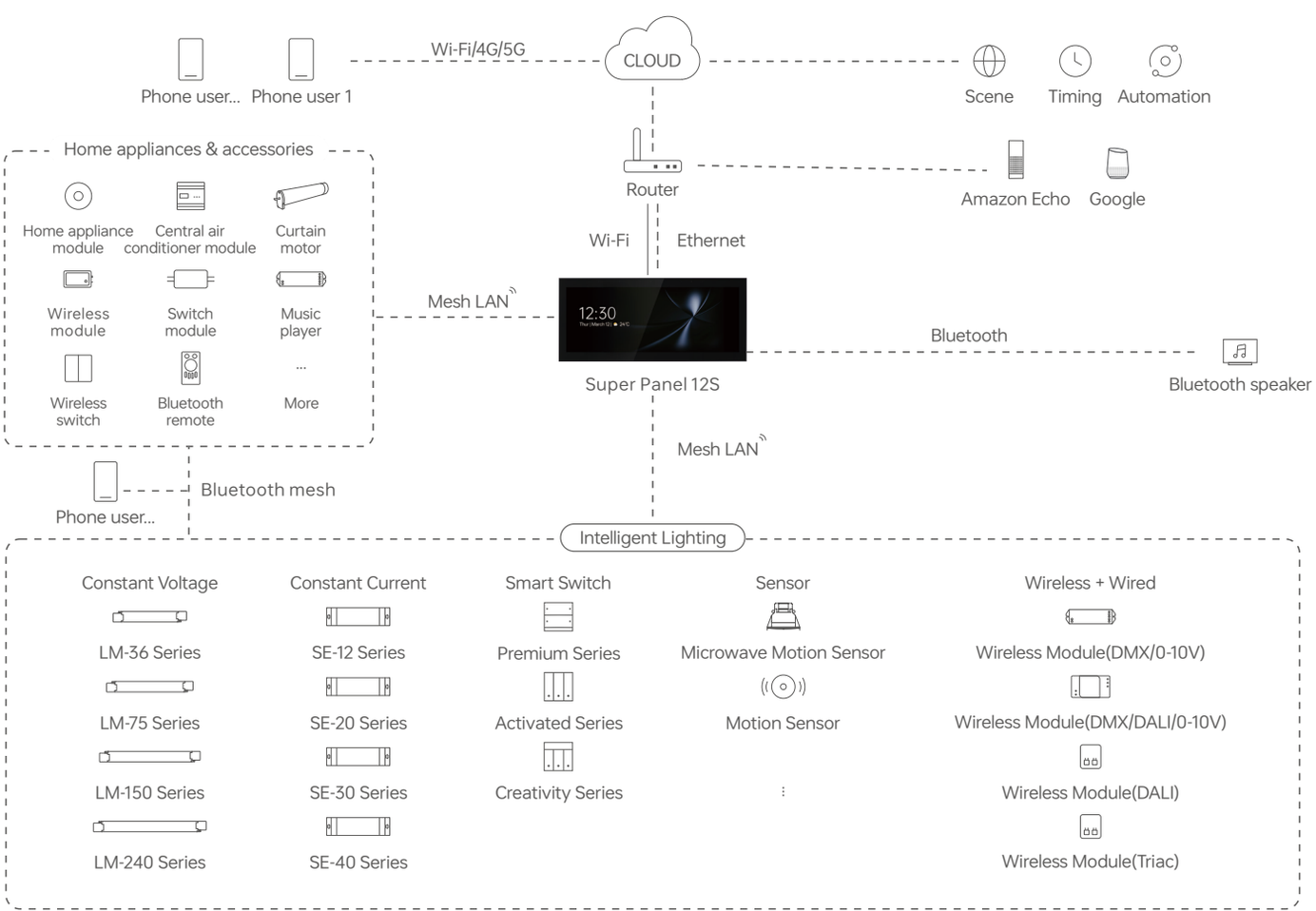
Do not allow the product to come into large-area contact with metal objects (e.g. keel frames). The separation distance shall be ≥15 cm to avoid signal interference affecting operation.





Please do not install the products on beams or near the corners. The distance between the product and the beam or the corner should be ≥15cm so as to avoid signal interference.

Application Diagram

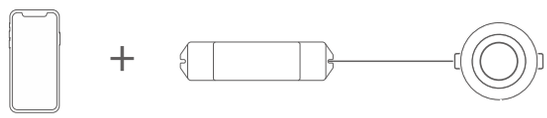


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Recommended Applications

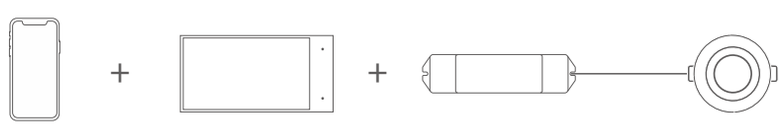
1. Quickly achieve local dimming control



2. Both App and remote can control the driver after connecting the remote to the driver with App.



3. Both App and Super Panel 6S can control the driver simultaneously after connecting the Super Panel 6S to the driver with App. By connecting the Super Panel to network, you are allowed to control the driver, cloud scenes and automation remotely with App.



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

Use with Bluetooth L-Home APP

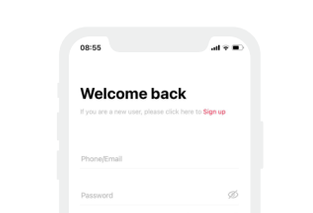
App Operating Instructions

1. Register an account

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

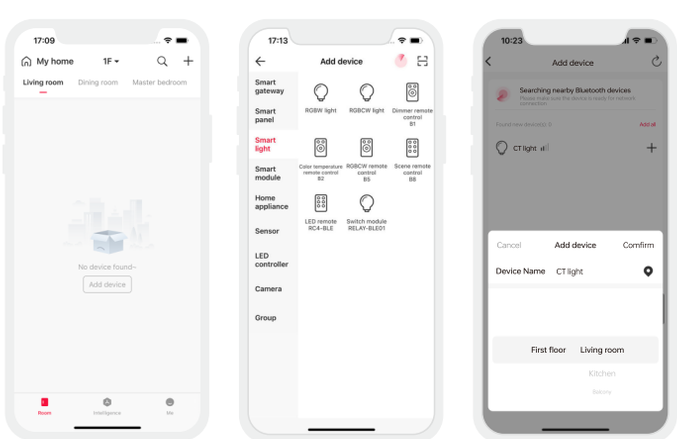
Scan and download the App

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



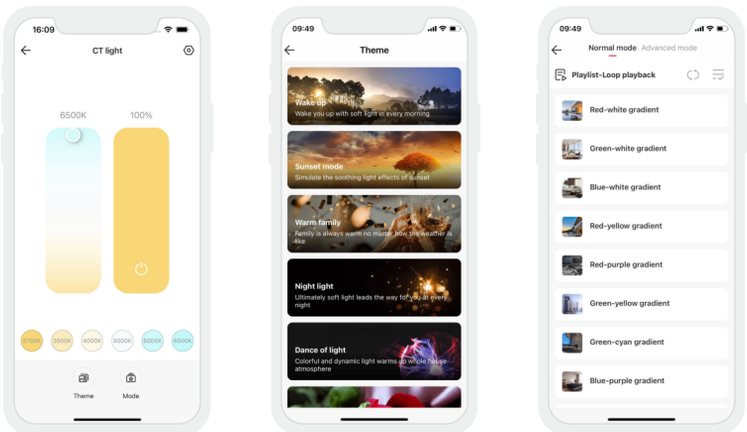
2. Paring instructions

Open the APP and create a home if you are a new user. Click “+” icon in the upper right corner and access the “Add Device” list, then follow the prompts to add the device. Pick “Smart lighting-CT light” from the list and follow the prompts to power on the device firstly. Make sure the device is not connected to the network. Then click ”Bluetooth Search” and follow the prompts to add the device.



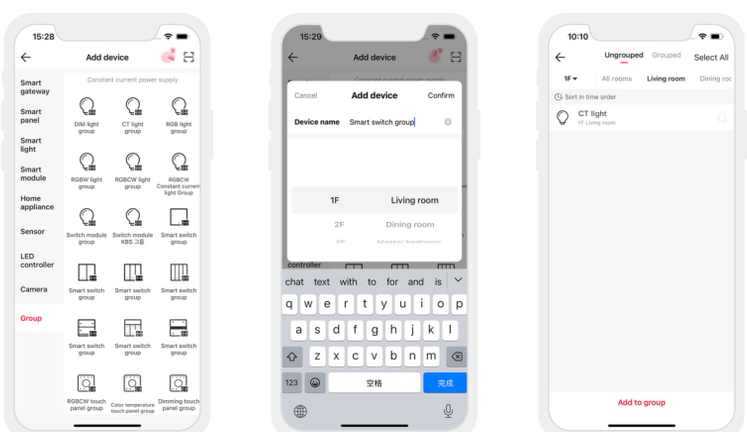
3. Control interface settings

After pairing up your device, go to the control interface. You'll be able to achieve your desired lighting effects by changing brightness 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.



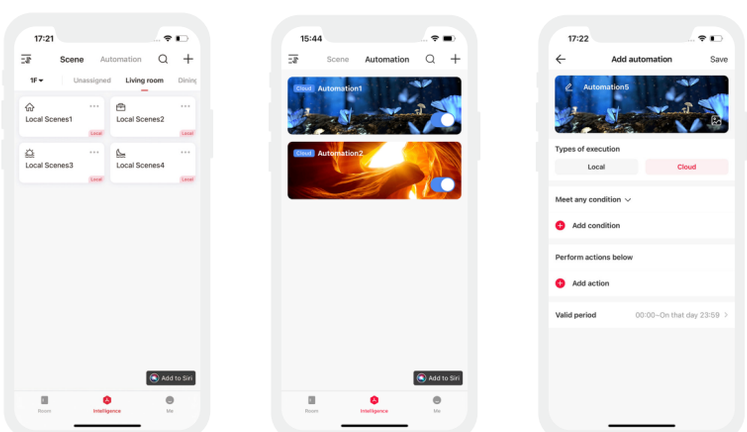
4. Light groups

Users are able to combine the same type of light fixtures into a group to control them simultaneously. Once you create the group, you can set the dim level and adjust the color temperature more easily. Pick "Group-CT light group" from the list . Follow the prompts to rename the group and click "Next" to pick the lights you are going to group together and click "Save".



5. Advanced functions

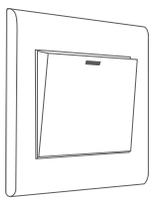
This driver can be linked up with gateway function devices (such as LTECH Super Panel) to achieve the advanced functions, like cloud scenes, automation, etc.



Reset The Device(Reset to factory defaults)

Method 1: After you long press the ID learning key for 6s, the lamp will flash 5 times, which means the controller has been restored to the factory reset state.

Method 2: Make sure the controller is connected to a lamp and keep the lamp on. Turn the controller off with the switch and after 15s turn it on. After 2s, turn it off again. Repeat the same operation 6 times. When the lamp flashes 5 times , the controller has been restored to the factory reset state.



Under the driver being power-on

Turn it off —15s— Turn it on —2s— ……

(Repeat 6 times)

FAQs

1. What should I do if I fail to add the device?
   1.1 Please make sure the device is powered on normally .
   1.2 Please make sure the device hasn't been added by any other account. If it has,please reset to factory defaults manually.
   1.3 The recommended distance between the mobile phone and the device is no more than 20 meters.
   1.4 If the device has been forced to delete, please reset to factory defaults manually and then add the device again.
2. What should I do if the device disconnects from the network?
   2.1 Please make sure the device is powered on normally.
   2.2 Please check if the router is working properly and the network is unobstructed.
   2.3 If you control the device remotely, please make sure your phone network runs smoothly.
3. How to control remotely and set cloud scenes?
   Remote control and cloud scenes can achieved only by working with LTECH Super Panel.
4. How to share control of your home devices?
   Please go to"Me"- "Home Management"and access the home you want to share. Click"Add Member"and follow the prompts to add members to your home.

5. Inconsistent dynamic effects across groups?

Due to technical limitations of two-wire color temperature controllers, please use a three-wire color temperature controller if you require consistent dynamic effects across groups.

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 manufacture:5 years.
- Free repair or replacement services for quality problems are provided within warranty periods. Warranty exclusions below:

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 or invoice 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. The warranty that issues in writting shall prevail.

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Update Log

Version	Updated Time	Update Content	Updated by
A0	2025.08.06	Original version	Simin Zhong