

JS LED®

DMX512 Panel Controller

Intelligent Touch Panel

(Bluetooth + DMX / Programmable)



UB1

UB2

UB4

UB5

Manual



RoHS

Product Introduction

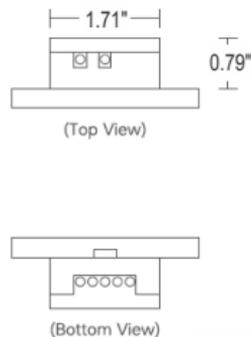
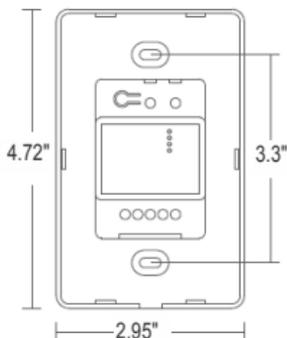
The Smart Touch Panel is an American-style wall switch that adopts Bluetooth 5.0 SIG Mesh wireless protocol and DMX signals. It features a CNC-machined aviation aluminum frame and 2.5D tempered glass, boasting a simple and stylish appearance. Suitable for multi-scenario control environments, it allows quick access to preset lighting scenes. It meets the functional requirements of Bluetooth-series panels to achieve integrated functionality, filling the gap of panels with limited scenario operations and enriching product types. It can be paired with Bluetooth drivers and Bluetooth DMX signal converters to expand lighting applications. When used with super panels and Series B remotes, it supports visual control, traditional lighting panel remote control, and APP-based control, enabling more convenient and intelligent operation.

Technical Specs

Model	UB1	UB2	UB4	UB5
Control Mode	DIM	CT	RGB/RGBW	RGBCW
Input Voltage	12-24VDC, Powered by Class 2			
Wireless Type	Bluetooth 5.0 SIG Mesh			
Output Signal	DMX 512			
Zones	4			
Compatible Remote Controls	B1	B2	B5	B5
Compatible Driver	B5-3A, Bluetooth Driver, DMX Decoder			
Working Temperature	-25°C~50°C			
Dimensions	L4.72×W2.95×H1.16"			
Package Size	L6.22×W4.45×H2.44"			
Weight(G.W.)	350g			

Product Size

Unit: inch

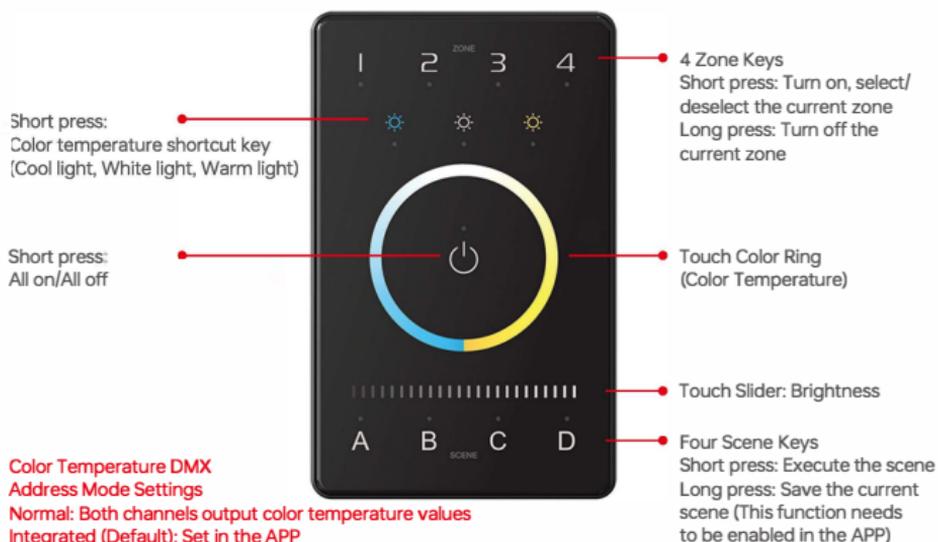


Key Functions

UB1



UB2



Key Functions

UB4

* Network configuration via the L-Home APP, with support for setting RGB or RGBW types

16 Modes

Short press: switch
Long press: adjust current mode speed

Short press:
Turn RGB on/off
Long press:
Adjust the brightness value of RGB

Short press:
All on/All off

16 Modes (Switch via the "⊗")

1. 3 color jumping
2. 7 color jumping
3. White strobe
4. 7 color strobe
5. Red green gradient
6. Red blue gradient
7. Green blue gradient
8. Red yellow gradient
9. Bluepurple gradient
10. Green yellow gradient
11. Blue cyan gradient
12. Red purple gradient
13. Bluewhite gradient
14. Yellow purple cyan gradient
15. 3 color gradient
16. Full color gradient



- 4 Zone Keys
Short press: Turn on, select/deselect the current zone
Long press: Turn off the current zone
- Short press: Turn W on/off
Long press: Adjust the brightness value of W
When the RGB type is set, the button is invalid
- Touch Color Ring (RGB)
- Touch Slider (RGB Brightness)
- Four Scene Keys
Short press: Execute the scene
Long press: Save the current scene (This function needs to be enabled in the APP)

UB5

16 Modes

Short press: switch
Long press: adjust current mode speed

Short press:
Turn RGB on/off
Long press:
Adjust the brightness value of RGB

Short press:
All on/All off

16 Modes (Switch via the "⊗")

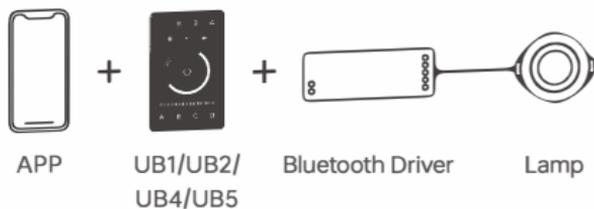
1. 3 color jumping
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16. Full color gradient



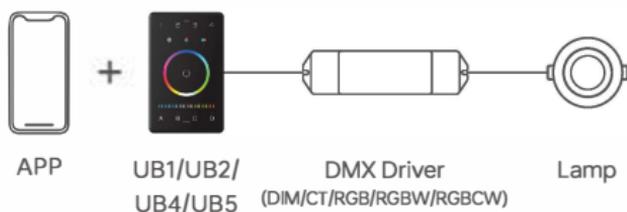
- 4 Zone Keys
Short press: Turn on, select/deselect the current zone
Long press: Turn off the current zone
- Short press: turn CW on/off
Long press: adjust the brightness value of CW
- Touch Color Ring (RGB)
- Touch Slider: CW
- Four Scene Keys
Short press: Execute the scene
Long press: Save the current scene (This function needs to be enabled in the APP)

Recommended Applications

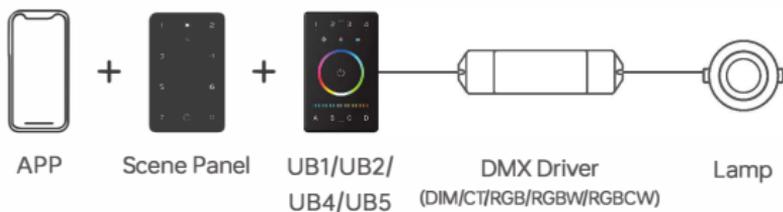
1. Wireless controlled lighting fixtures.



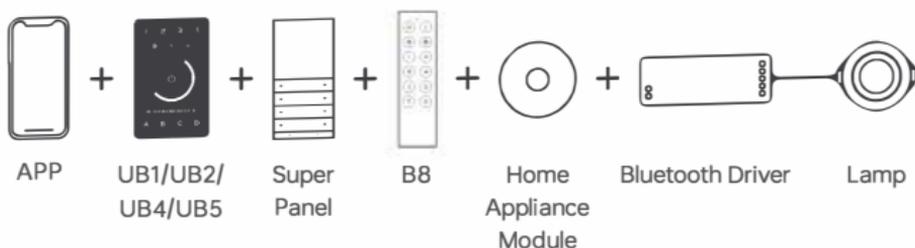
2. Wireless bluetooth panel + DMX panel and drivers support diverse lighting applications.



3. Wireless bluetooth scene panel + DMX panel and drivers support diverse lighting applications.

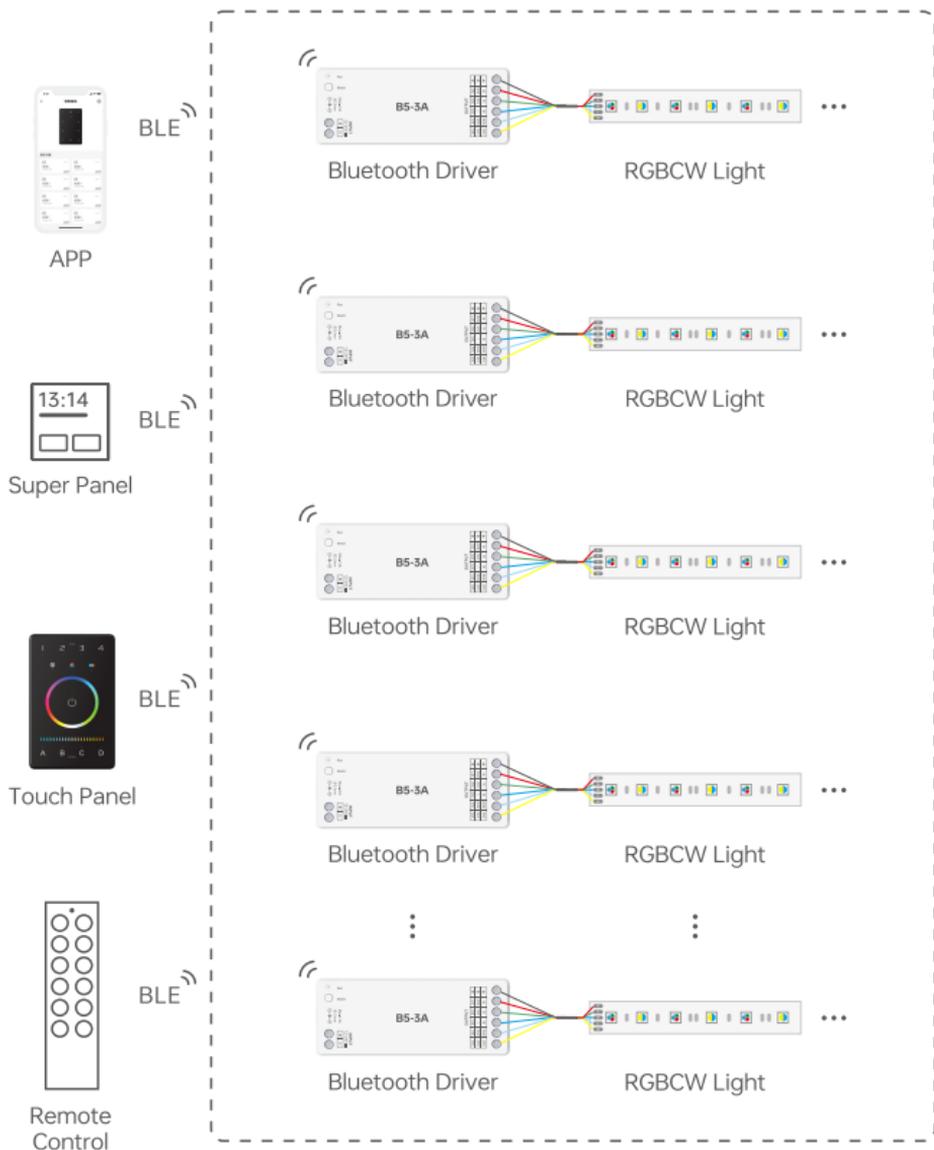


4. Wireless bluetooth + smart home devices.



5. More application combinations await your setup.

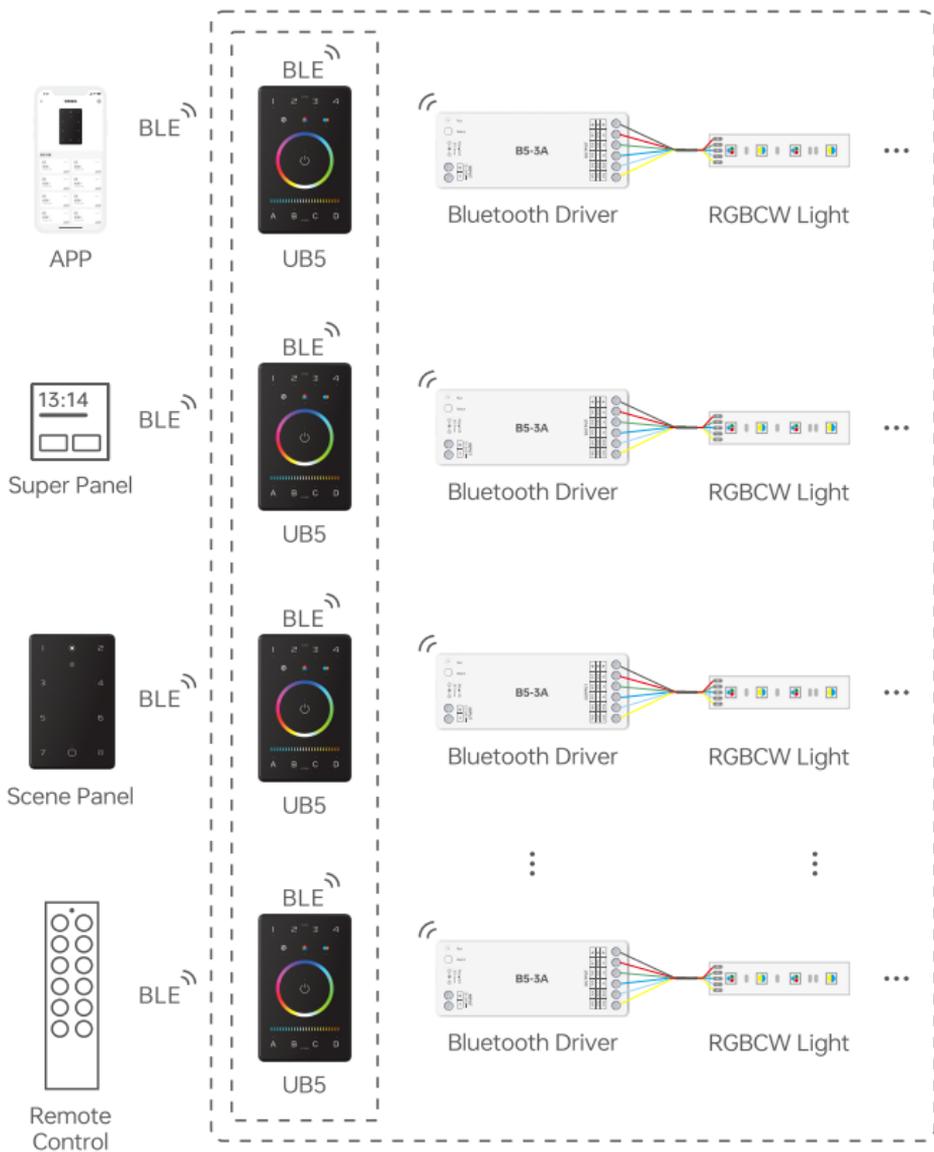
Bluetooth Application Diagram



* For a better product experience, it is not recommended to use the wired DMX output of the panel and the wireless Bluetooth driver simultaneously.

* Please try to avoid placing wireless drivers next to large-area metal objects or in spaces with many metal media to prevent signal interference from affecting usage.

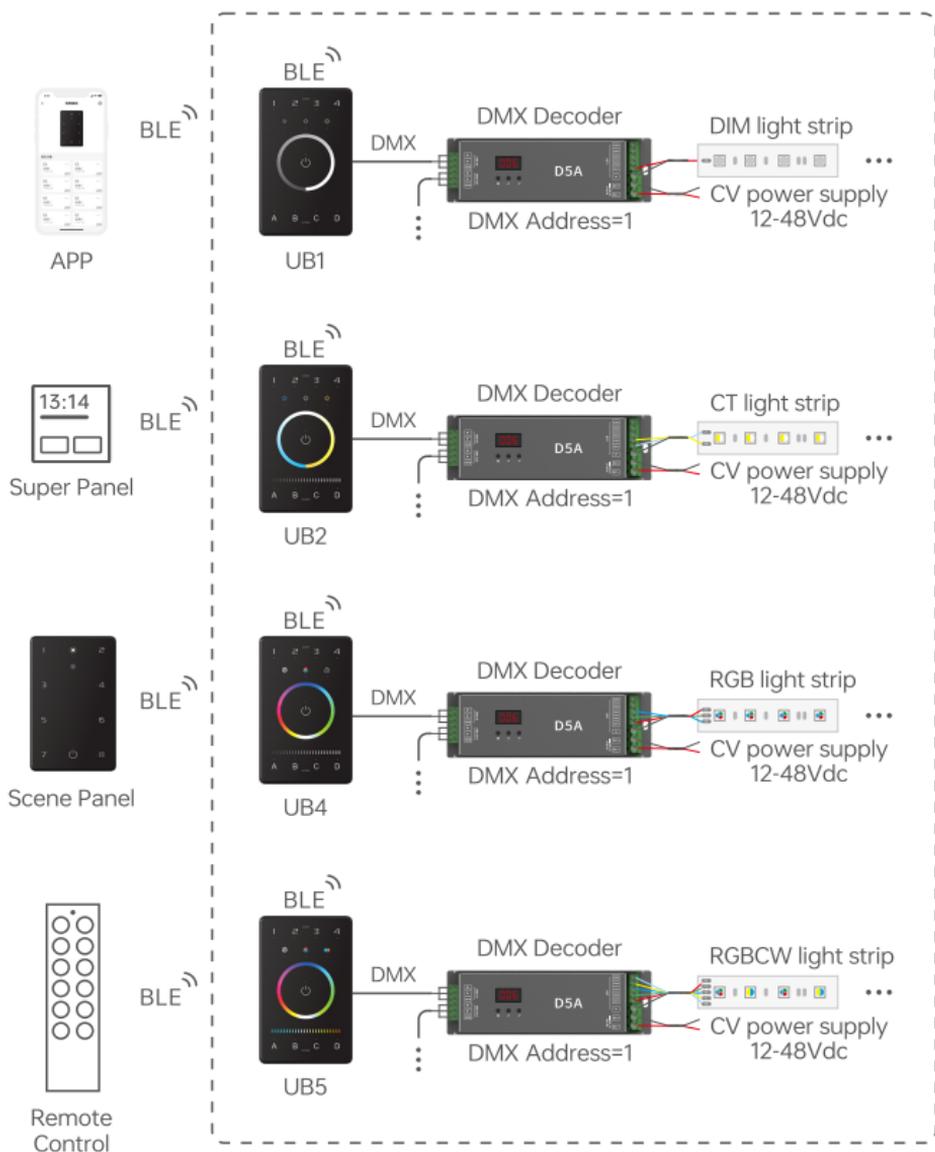
Panel Group Bluetooth Signal Output Application



* For a better product experience, it is not recommended to use the wired DMX output of the panel and the wireless Bluetooth driver simultaneously.

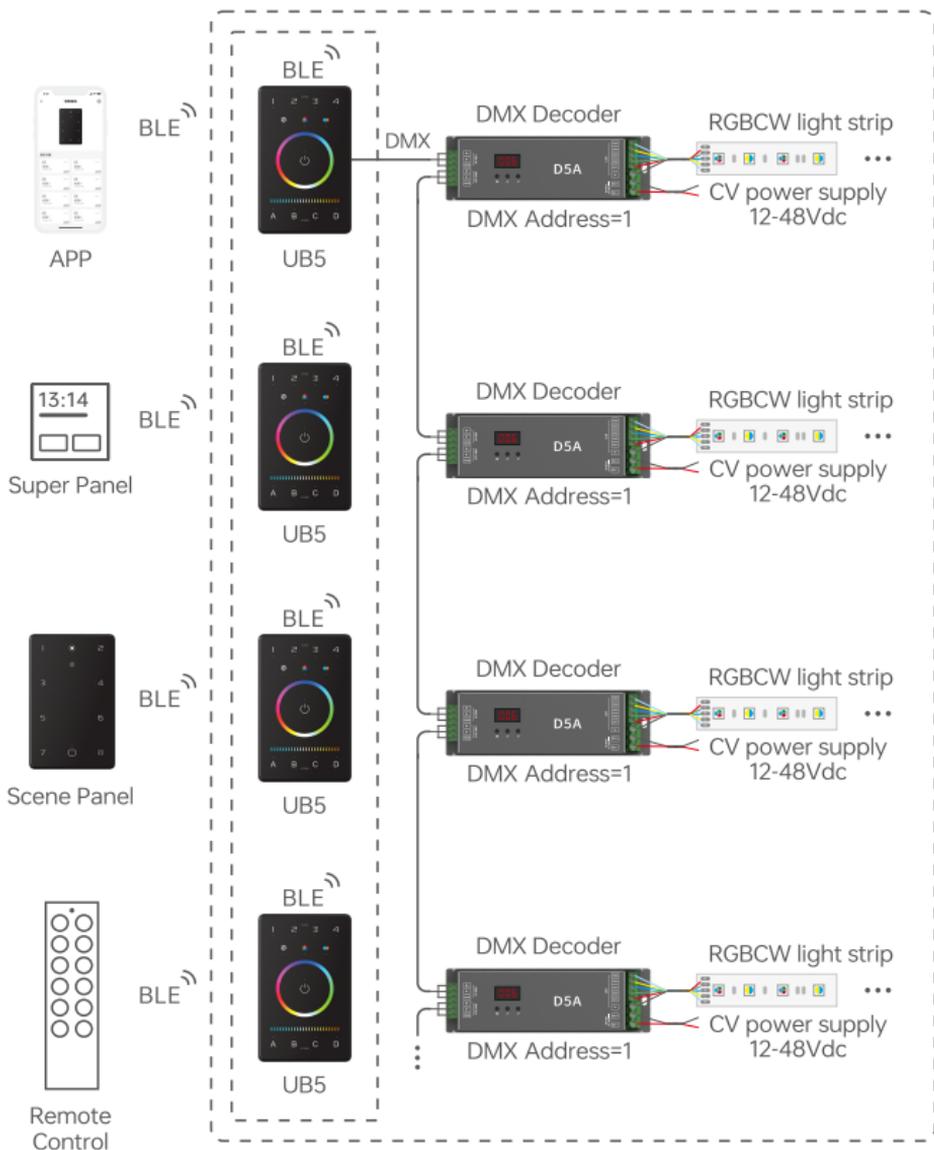
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DMX Application Diagram



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Panel Group DMX Signal Output Application



* Please try to avoid placing wireless drivers next to large-area metal objects or in spaces with many metal media to prevent signal interference from affecting usage.

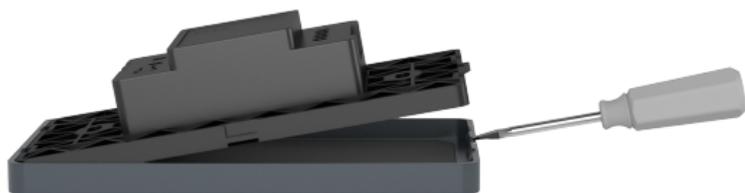
DMX Channel Output Sheet

Addr. \ Type Zone	DIM	CT1	CT2	RGB	RGBW	RGBCW
1	DIM1	C1	BRT1	R1	R1	R1
2	DIM2	W1	CT1	G1	G1	G1
3	DIM3	C2	BRT2	B1	B1	B1
4	DIM4	W2	CT2	R2	W1	C1
5	DIM1	C3	BRT3	G2	R2	W1
6	DIM2	W3	CT3	B2	G2	R2
7	DIM3	C4	BRT4	R3	B2	G2
8	DIM4	W4	CT4	G3	W2	B2
9	DIM1	C1	BRT1	B3	R3	C2
10	DIM2	W1	CT1	R4	G3	W2
11	DIM3	C2	BRT2	G4	B3	R3
12	DIM4	W2	CT2	B4	W3	G3
13	DIM1	C3	BRT3	R1	R4	B3
14	DIM2	W3	CT3	G1	G4	C3
15	DIM3	C4	BRT4	B1	B4	W3
16	DIM4	W4	CT4	R2	W4	R4
17	DIM1	C1	BRT1	G2	R1	G4
18	DIM2	W1	CT1	B2	G1	B4
19	DIM3	C2	BRT2	R3	B1	C4
20	DIM4	W2	CT2	G3	W1	W4
⋮	⋮	⋮	⋮	⋮	⋮	⋮
500	DIM4	W2	CT2	G3	W1	W4
⋮	⋮	⋮	⋮	⋮	⋮	/
512	DIM4	W4	CT4	G3	W4	/

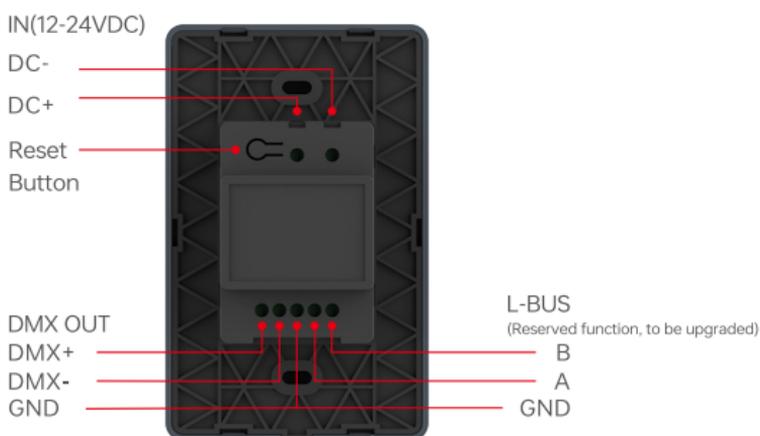
* As shown in the sheet above, every 4 DIM addresses are circulated in 4 zones, every 8 addresses of CT1 and CT2 are circulated in 4 zones, every 12 RGB addresses are circulated in 4 zones, every 16 RGBW addresses are circulated in 4 zones, every 20 RGBCW addresses are circulated in 4 zones.

Installation Instructions

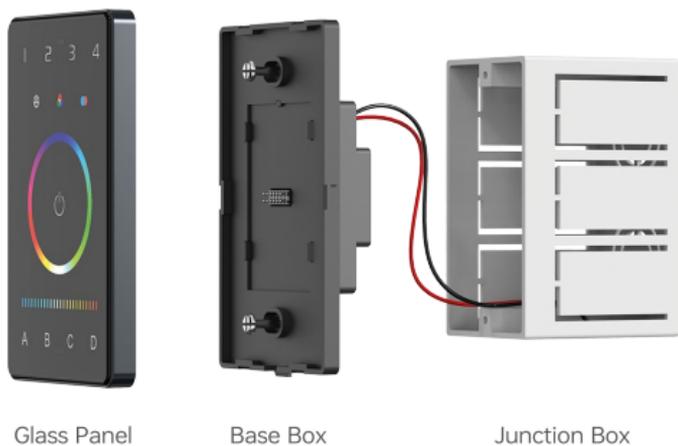
- ① Turn off the main power switch and make sure there is no mud or other attachments on the inner wall of the junction box. Reduce the length of the power cord in the junction box to about 10CM and use a flat-blade screwdriver to pry open the bottom box of the touch panel.



- ② Ensure the DC power supply output voltage is between 12-24VDC. Connect the positive power cord to the "DC+" terminal of the device and the negative cord to the "DC-" terminal. Verify that the power cords make good contact with the terminals and that no copper wires are exposed.



③ Secure the base box to the wall junction box with screws, ensuring it fits flush against the wall.



④ Tilt the glass panel and snap it onto the base box, then turn on the main power switch.



App Operating Instructions

1. Register an account

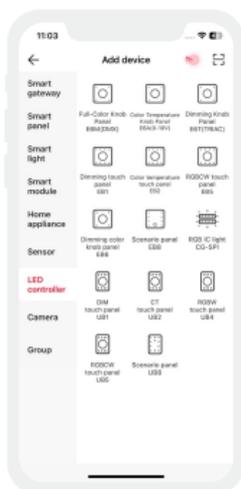
Scan the QR code below with you mobile phone and follow the prompts to complete the app installation.



Scan the QR code to
download

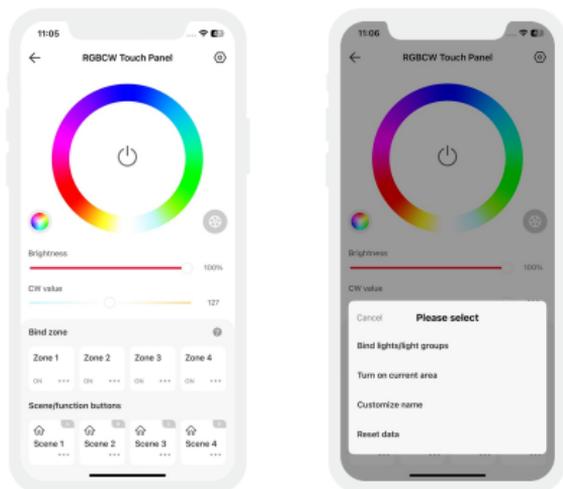
2. Configure

After a new user creates a family on the APP, click “+” in the upper right corner of the [Room] interface to add a device. Select “LED controller” in the list of added devices and follow the on-screen prompts to complete the addition.



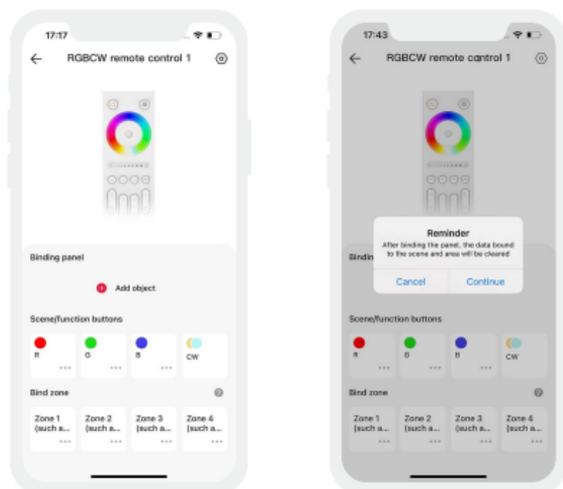
3. How to Bind Lights/Light Groups and Save Scenes

After pairing, enter the control interface and select the area to edit. Areas (1234) can bind lamps, light groups and other devices. Scene keys (ABCD): After adjusting the area status to the target effect, click the confirm button and follow the prompts to save the area to the scene. Once saved, click to execute the current scene.



4. How to Be Bound by Series B Remote Controls

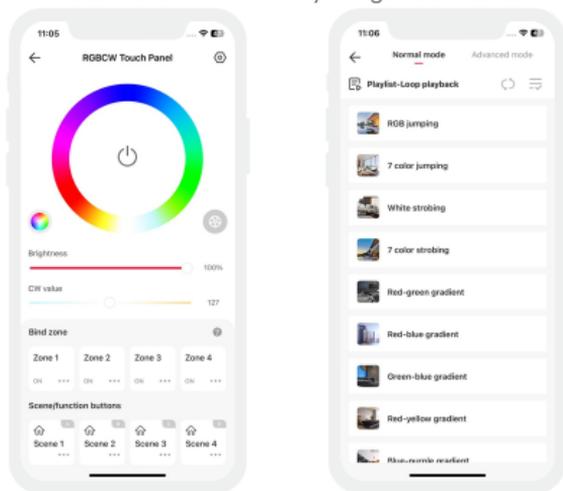
Please refer to the Series B Remote Control Manual. After adding the device, enter the control interface to bind the corresponding smart touch panel.



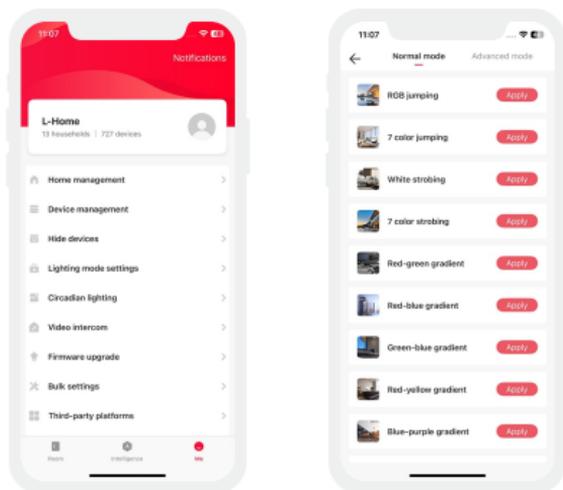
5. Normal modes and advanced modes

Normal modes: Click “Mode” icon and access the mode interface. Click the blank area of the mode and it can be executed. There are 12 editable normal modes in total which satisfy the general needs of customers(Currently, DIM type is not supported).

Advanced modes: Click the blank area of the mode and it can be executed. There are 8 editable advanced modes in total which satisfy the general needs of customers.

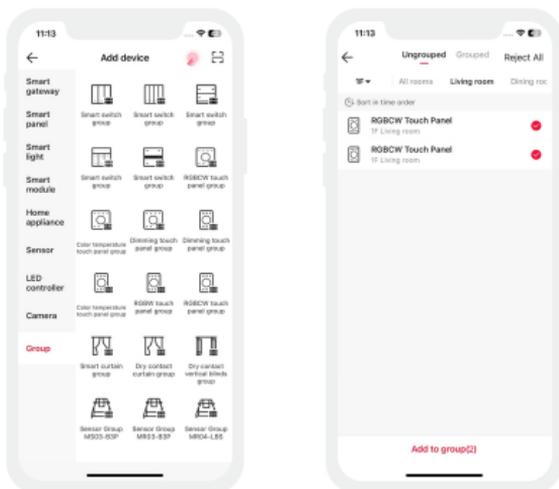


Edit mode: Switch to “My” menu, select “Light Mode Settings”, choose the corresponding type, then tap the blank area to enter the edit mode interface. After editing, click “Apply” and select the devices to apply.



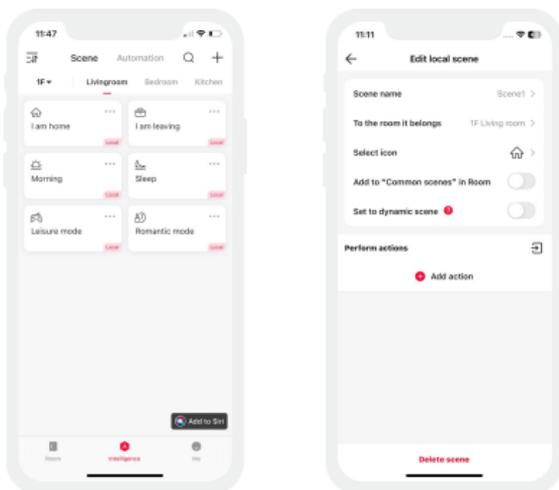
6. Group Control

After panels of the same type form a group, users can control the group collectively for easier operation. Select “Group” from the addition list, edit the name as prompted on the interface, click “Next”, check the devices you want to include in the group, and save. Once created, sub-devices in the group will sync data with the panel group to achieve synchronized control.



7. Local scene

Switch to the [Smart] interface, click the “+” in the upper right corner to create a local scene, and set the execution action to realize the local linkage of Bluetooth devices.

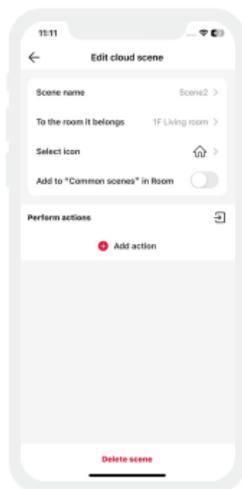
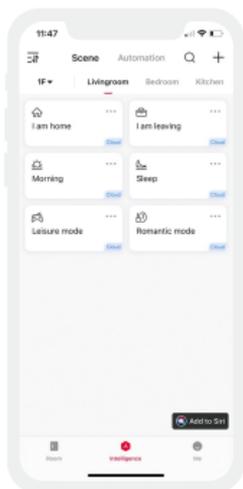


8. Cloud Scenes & Automation

Ensure a smart gateway (e.g., Super Panel 12S) is added in the home.

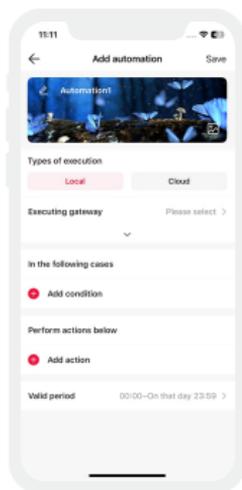
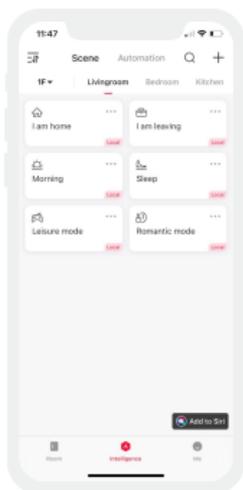
Cloud Scenes:

Switch to the “Smart” interface, click [+] to create a cloud scene. Set the execution action to enable remote linkage.



Automation:

Select “Automation” in the [Smart] interface, click “+” to create one. Choose local/cloud execution, set trigger conditions and actions. When conditions are met, device actions trigger automatically for remote linkage. (The smart touch panel works as both trigger condition and execution action.)



Restore to Factory Settings

Method 1: Press and hold the reset button for 6 seconds, then release it when the panel vibrates. At this point, all indicator lights will flash and then turn off, indicating that the factory settings have been restored.

Method 2: When the panel's indicator lights are on, press and hold buttons "A" and "D" simultaneously until the panel's indicator lights flash and then turn off. This indicates that the factory settings have been restored.

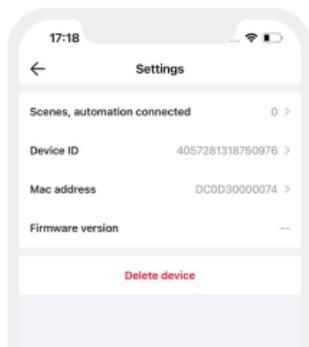


(Method 1)



(Method 2)

Method 3: Ensure the panel is powered on and online. Open L-Home APP, find the panel, go to its settings, and tap "Delete Device". When the interface shows "Deletion Successful", factory settings are restored.



FAQs

1. What to do if network configuration fails?

- 1.1 Ensure the device is powered on normally and in an activated state;
- 1.2 The device to be added has not been added to any other account. If it has, manually restore it to factory settings;
- 1.3 Ensure the mobile phone and the device are as close as possible, with a recommended distance of no more than 15 meters;
- 1.4 If the device has been forcibly deleted, manually restore it to factory settings first, then re-add the device.

2. How to perform remote control / set up cloud scenes?

To use remote control or add cloud scene settings, it is required to work with our company's smart gateway.

Warning

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF exposure guidelines, the distance must be at least 20cm between the radiator and your body, and fully supported by the operating and installation configurations of the transmitter and its antenna(s).

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

* 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