

LTECH

Dimming Color Knob Panel

Model: EB6



Manual

www.ltech-led.com

Product Introduction

- It adopts the two-in-one control mode of Bluetooth 5.2 SIG Mesh wireless protocol and DMX512 protocol, making it more flexible and convenient for engineering applications.
- The knob panel supports the control of dimming, color temperature, RGB, RGBW, and RGBCW lighting fixtures, and can be used as a single-zone master control panel.
- The stepless adjustment knob allows you to set the knob sensitivity through the APP, and you can adjust the lighting/device effects as you like.
- When the knob panel is bound to RGBW or RGBCW lights/light groups, you can set the double-click mode switching sequence of the knob.
- When the knob panel is bound to RGBW or RGBCW lights/light groups, the memory mode can be enabled, and the knob will remember the last used mode.
- The scene touch button can be used by binding scenes through the L-Home APP.
- It supports setting the parameters of the knob and scene keys through the L-Home APP, and can achieve functions such as lighting switch, dimming, color adjustment, and scene control.
- When paired with a smart gateway, it can realize rich cloud scenes, cloud automation, and local automation control methods.
- It supports local scenes, and can be controlled without a gateway even when the network is disconnected, which is faster and more stable.
- It is applicable to both European standard bottom boxes and national standard 86 bottom boxes, and is compatible with more usage scenarios.

Specification Parameters

Model	EB6
Control Type	DIM,CT,RGB,RGBW,RGBCW
Output Voltage	100-240V~
Output Signal	DMX512,DMX decoder
Wireless Type	Bluetooth 5.2 SIG Mesh
Compatible Driver	B5-3A
Working Temperature	-25°C~50°C
Dimensions	86×86×50mm (L×W×H)
Package Size	105×105×63mm (L×W×H)
Product Weight	225g



Bluetooth®



SRRC

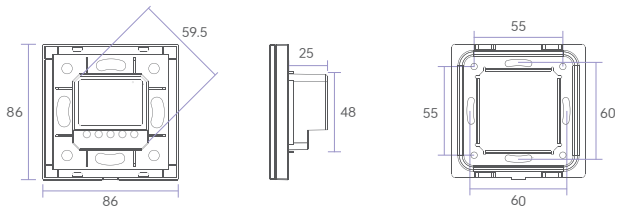
CE

FC

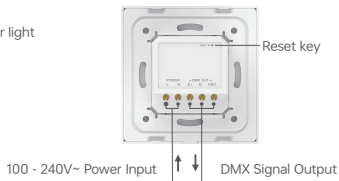
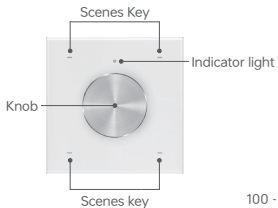
RoHS

Product Size

Unit: mm



Product Illustration



Scenes key: Clicking the scene key triggers the scene. The local scene/DALI scene needs to be bound through the L-Home APP.

Knob: It supports single press, double press, long press and rotate, and has different operations according to the binding type of the knob. It supports the setting of three sensitivity levels: high, medium and low.

Indicator light: Displays the corresponding color according to the value adjusted by the knob. White (dimming); Yellow (color temperature); Purple (RGB).

Restore to factory settings: Press and hold the reset key on the back of the panel with a card ejector for 6 seconds until all the indicator lights on the panel flash and then go out, indicating that the factory settings have been restored.

Introduction to the use of the knob:



Single Press



Double Press



Rotate



Long Press

Note: Different operations are available depending on the configuration type of the knob.

Action Device	Single Press	Double Press	Rotate	Long Press
DIM light	ON/OFF	No action	Adjust BRT	Adjust BRT
CT light	ON/OFF	Switch mode: BRT/CT	Adjust current BRT/CT	Adjust BRT
RGB light	ON/OFF	Switch mode: BRT/RGB	Adjust current BRT/RGB color	Adjust BRT
RGBW light	ON/OFF	Switch mode: RGBW BRT/RGB/W	Adjust current RGBW BRT/RGB color/W	Adjust BRT: RGBW/RGB/W
RGBCW light	ON/OFF	Switch mode: RGBCW BRT/RGB/CW	Adjust current RGBCW BRT/RGB color/CW color	Adjust BRT: RGBCW/RGB/CW

Installation Steps

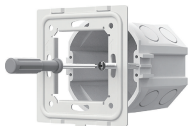
- ① Turn off the main power switch. Make sure there is no cement or other attachments on the inner wall of the 86 flush-mounted box. Trim the length of the power cord in the box to about 10CM. Use a flat-head screwdriver to pry open the bottom box of the knob panel.



- ② Connect the live wire to the L interface of the knob panel and the neutral wire to the N interface. Ensure that the power cord makes good contact with the switch terminals and that there are no exposed copper wires. (The front - end protection device of the electronic switch should not exceed 35A.)



- ③ Fix the bottom box to the wall flush-mounted box with screws, making the bottom box fit tightly against the wall.

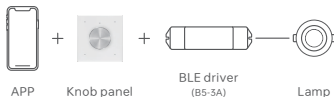


- ④ Tilt the panel and snap it onto the bottom box. Turn on the main power switch. Press the knob panel. If the lights can be controlled normally, it indicates that the installation is correct.

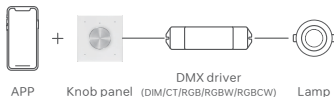


Recommended Application Combinations

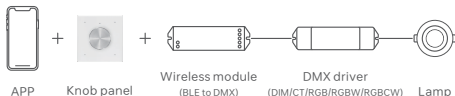
① Wireless - controlled lighting fixtures.



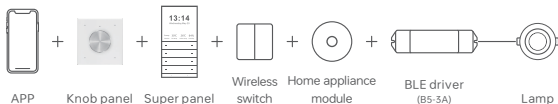
② Wireless + wired control for stable and reliable signals.



③ Wireless + Bluetooth local scenes to enrich different lighting applications.

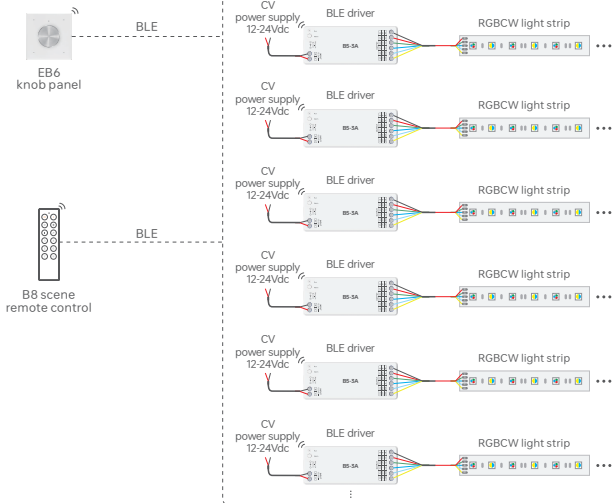


④ Visual control + traditional dimming panel remote control.



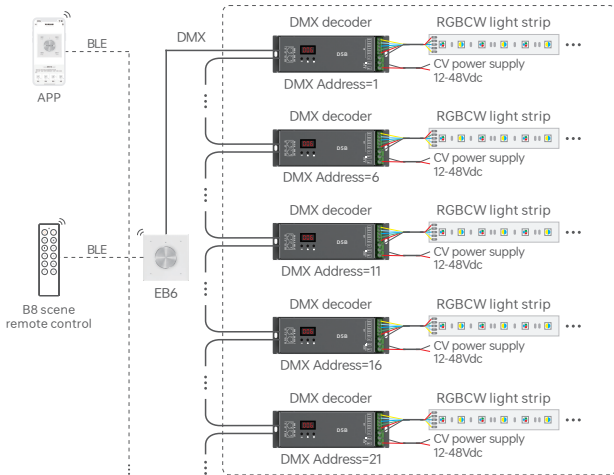
⑤ More applications of intelligent control are waiting for you to set up.

Bluetooth Application Schematic Diagram



- * For a better product experience, it is not recommended to use both the wired DMX output of the panel and the wireless Bluetooth driver at the same time.
- * Please try to avoid placing the wireless drive next to large metal objects or using it in a space with a lot of metallic media, so as not to have the signal interfered with and affect its usage.

Schematic Diagram Of DMX Application



* If there are more than 32 DMX decoders connected, a DMX signal amplifier should be added, and the signal amplification should not be continuous for more than 5 times. When there are more than 32 DMX/RDM decoders connected, if it is necessary to modify their parameter settings, one RDM signal amplifier can be added, or after the parameter settings are completed, 1 to 5 DMX signal amplifiers can be added.

* When the signal recoil effect affects the usage due to reasons such as a long signal line or the quality of the wire, you can try to connect a 0.25W 90-120Ω terminal resistor at the end of each signal line to solve the problem.

DMX Channel Output Table

Type Address	DIM	CT	CT2	RGB	RGBW	RGBCW
1	DIM	C	BRT	R	R	R
2	DIM	W	CT	G	G	G
3	DIM	C	BRT	B	B	B
4	DIM	W	CT	R	W	C
5	DIM	C	BRT	G	R	W
6	DIM	W	CT	B	G	R
7	DIM	C	BRT	R	B	G
8	DIM	W	CT	G	W	B
9	DIM	C	BRT	B	R	C
10	DIM	W	CT	R	G	W
11	DIM	C	BRT	G	B	R
12	DIM	W	CT	B	W	G
13	DIM	C	BRT	R	R	B
14	DIM	W	CT	G	G	C
⋮	⋮	⋮	⋮	⋮	⋮	⋮
500	DIM	W	CT	G	W	W
⋮	⋮	⋮	⋮	⋮	⋮	/
512	DIM	W	CT	G	W	/

* According to the illustration in the above figure, and so on.

For Use With The L - Home APP.

1. Register an account

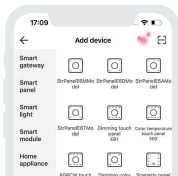
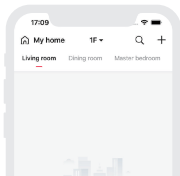
Scan the QR code below with your mobile phone. After completing the APP installation according to the prompts, you can proceed with the login/registration operation.



Scan the QR code to download the APP
iOS/APK

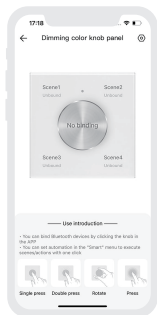
2. Pairing operation

For new users, after creating a home on the APP, click the "+" icon in the upper right corner on the [Room] interface for addition. Select "LED Controller" from the device addition list, and follow the prompts on the installation interface to complete the addition.



3. Bind the device

Click on the added knob panel in the "Room" interface to enter the [Control] interface. By long-pressing the knob, bind the light/light group that matches the network type of the product. After binding, the knob can be used to adjust the brightness, color temperature, RGB color, etc., of the bound devices. In addition, by clicking the scene key area, local scenes or DALI scenes can be bound.



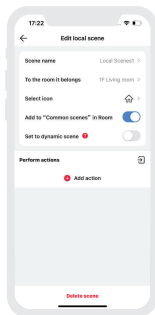
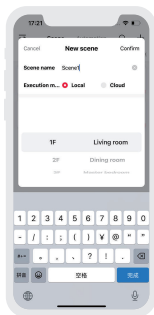
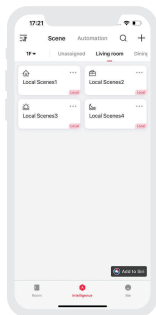
4. Local scene

Create a local scene:

Switch to the **【Smart】** page, click "+" in the upper right corner to create a local scene, and after setting the execution action, you can realize the local linkage of Bluetooth devices.

Binding local scenes:

On the control details page, click on the corresponding key, and set the binding scene. Once saved successfully, a short press of the button will immediately execute the bound scene.



5. Cloud scenes and automation

Make sure that a smart gateway, such as Super Panel 12S, has been added to the family.

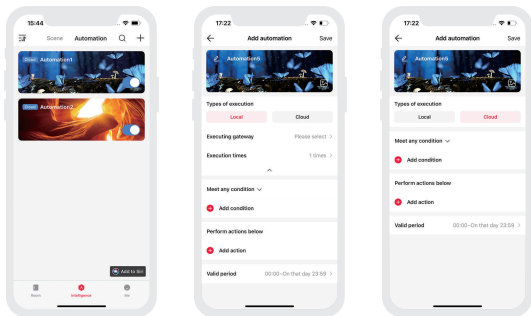
Cloud scenes:

Switch to the **【Smart】** interface and click “+” to create a cloud scene. After setting the execution action, remote linkage can be achieved.

Automation:

Select “Automation” in the **【Smart】** page and click “+” to create automation. You can choose local/cloud execution mode, and set trigger conditions and execution actions. When the set trigger conditions are met, a series of device actions are automatically triggered to achieve remote linkage.

Note: Knob panel can be set as trigger conditions or as execution actions.



Restore To Factory Settings

Method 1: After the EB6 knob panel is connected to power, use a SIM - card - eject tool to long - press the reset key on the back of the panel for 6 seconds (see Figure 1). When all the indicator lights on the panel flash and then go out, it indicates that the factory settings have been restored.

Method 2: First, make sure that the device is properly powered on and in an online state. Then, open the L - Home APP, find the device, and enter its settings page. Click the "Delete Device" button (see Figure 2). When the system prompts "Deletion successful", it means that the device has been successfully restored to its factory settings.



Figure 1



Figure 2

FAQs

1. What to do if the network configuration fails?

- ① Ensure that the device is powered on normally.
- ② Confirm that the device being added has not been added by another account. If it has been added, please manually restore the factory settings.
- ③ Ensure that the mobile phone and the device are as close as possible, preferably within 15 meters.
- ④ If the device has been forcibly deleted, please manually restore the factory settings and then add the device again.

2. How to remotely control the device?

When paired with our company's Smart gateway, the device can be remotely controlled via 4G/5G/WiFi on a mobile phone.

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.
- If a fault occurs, please do not attempt to fix products by yourself. If you have any question, please contact your suppliers.

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:

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.

- * 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.

LTECH

调光调色旋钮面板

型号：EB6



使用说明书

www.ltech.cn

产品介绍

- 采用蓝牙 5.2 SIG Mesh 无线协议以及 DMX512 协议二合一控制方式，工程应用更灵活方便；
- 旋钮面板支持调光、色温、RGB、RGBW、RGBCW灯具控制，用作单区主控面板；
- 无极调节旋钮，可通过APP设置旋钮灵敏度，随心调节灯光/设备效果；
- 当旋钮面板绑定RGBW或RGBCW灯/灯组时，可以设置旋钮双击模式切换顺序；
- 当旋钮面板绑定RGBW或RGBCW灯/灯组时，可以开启记忆模式，旋钮记忆最后一次使用的模式；
- 场景触摸键可通过L-Home APP绑定场景使用；
- 支持通过L-Home APP设置旋钮与场景键的参数，实现灯光开关、调光、调色和场景控制等功能；
- 搭配智能网关可实现丰富的云场景、云自动化、本地自动化控制方式；
- 支持本地场景，去网关，断网可控，更快更稳定；
- 可适用欧规底盒与国标86底盒，兼容更多使用场景。

规格参数

产品型号	EB6
控制类型	调光、色温、RGB、RGBW、RGBCW
输出电压	100-240V~
输出信号	DMX512, DMX解码器
无线类型	Bluetooth 5.2 SIG Mesh
可搭配的驱动	B5-3A
工作温度	-25°C~50°C
产品尺寸	86×86×50mm (L×W×H)
包装尺寸	105×105×63mm (L×W×H)
产品重量	225g



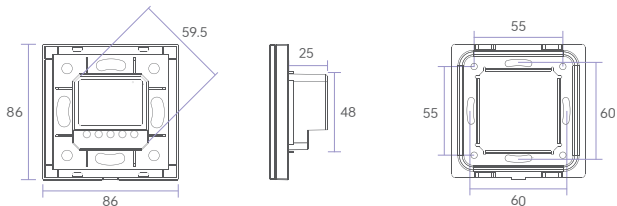
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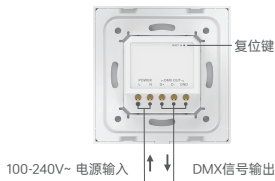
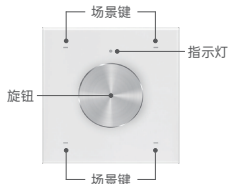
RoHS

产品尺寸

单位: mm



产品功能说明



场景键：场景键单击触发场景，需要通过 L-Home APP 绑定本地场景/DALI场景。

旋钮：支持单击、双击、长按和旋转，根据旋钮绑定类型具有不同的操作。

支持设置高、中、低三档灵敏度调节。

指示灯：根据旋钮现在调节的值显示对应颜色，白色(调光)；黄色(色温)；紫色(RGB)。

恢复出厂：用取卡针长按面板背部复位键6秒，直至面板所有指示灯闪烁后熄灭，表示已恢复到出厂设置。

旋钮使用介绍：



单击



双击



旋转



长按

注：根据旋钮配置类型具有不同的操作。

设备 \ 动作	单击	双击	旋转	长按
DIM灯	开/关	无动作	调节亮度	亮度±
CT灯	开/关	切换模式 (亮度/色温)	调节当前模式 (亮度/色温)	亮度±
RGB灯	开/关	切换模式 (亮度/RGB)	调节当前模式 (亮度/RGB颜色)	亮度±
RGBW灯	开/关	切换模式 (总亮度/RGB/W)	调节当前模式 (总亮度/RGB颜色/W)	当前模式亮度±
RGBCW灯	开/关	切换模式 (总亮度/RGB/CW)	调节当前模式 (总亮度/RGB颜色/CW颜色)	当前模式亮度±

安装步骤

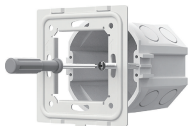
- ① 关闭电源总闸，并确认86暗盒内壁无水泥等附着物，将暗盒内的电源线长度修减至10CM左右，使用一字螺丝刀撬开旋钮面板底盒。



- ② 将火线接入旋钮面板L接口，零线接入N接口，确认电源线与开关接线柱接触良好，无裸露的铜线。
(电子开关的前置保护装置不能高于35A)



③ 用螺丝将底盒固定到墙壁暗盒中，使底盒贴合墙面。

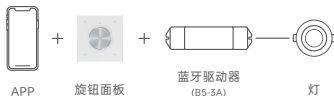


④ 倾斜面板并扣合在底盒上，开启电源总闸，按下旋钮面板，可正常控制灯光即说明安装正确。

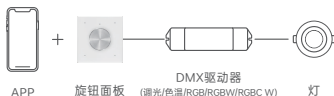


推荐应用搭配

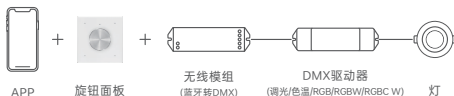
① 无线控制灯具。



② 无线+有线控制，信号稳定可靠。



③ 无线+蓝牙本地场景，丰富不同灯光应用。

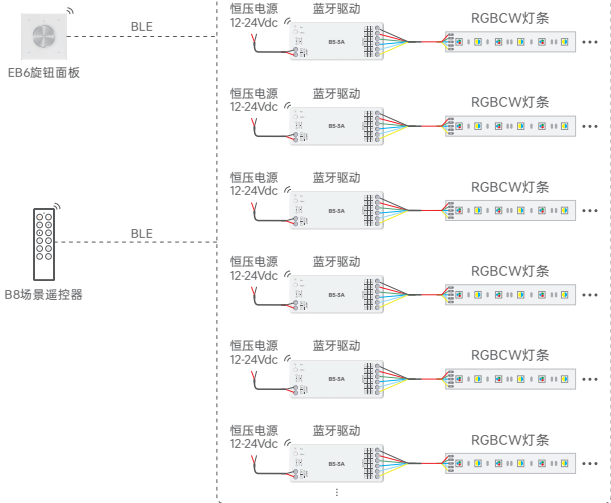


④ 可视化控制+传统调光面板遥控控制。



⑤ ...智能控制，更多应用搭配等您来设置。

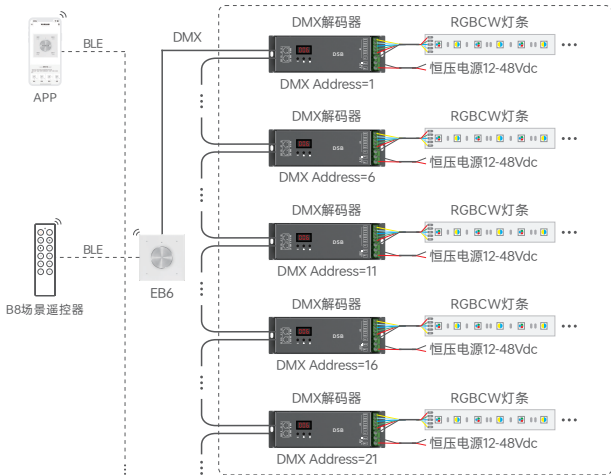
蓝牙应用示意图



* 为了更好的产品体验，不建议同时使用面板的有线 DMX 输出和无线蓝牙驱动。

* 请尽量避免无线驱动器放置在大面积金属物体旁或在较多金属介质的空间上使用，以免信号受到干扰影响使用。

DMX应用示意图



- * 超过32台DMX解码器连接需加DMX信号放大器，信号放大不能连续超过5次。当超过32台DMX/RDM解码器连接时，如需修改其参数设置，可添加1台RDM信号放大器，或者将其参数设置完成后，再添加1~5台DMX信号放大器。
- * 当信号线较长或者线材质量等原因造成信号反冲效应影响使用，可以尝试在每路信号线末端连接0.25W 90-120Ω终端电阻去解决。

DMX通道输出表

地址 \ 类型	DIM	CT	CT2	RGB	RGBW	RGBCW
1	DIM	C	BRT	R	R	R
2	DIM	W	CT	G	G	G
3	DIM	C	BRT	B	B	B
4	DIM	W	CT	R	W	C
5	DIM	C	BRT	G	R	W
6	DIM	W	CT	B	G	R
7	DIM	C	BRT	R	B	G
8	DIM	W	CT	G	W	B
9	DIM	C	BRT	B	R	C
10	DIM	W	CT	R	G	W
11	DIM	C	BRT	G	B	R
12	DIM	W	CT	B	W	G
13	DIM	C	BRT	R	R	B
14	DIM	W	CT	G	G	C
⋮	⋮	⋮	⋮	⋮	⋮	⋮
500	DIM	W	CT	G	W	W
⋮	⋮	⋮	⋮	⋮	⋮	/
512	DIM	W	CT	G	W	/

*按上图表示意，如此类推。

搭配L-Home APP使用

1. 账号注册

通过手机扫描下方二维码，按提示完成APP安装后即可进行登录/注册操作。



2. 配网操作

新用户APP上创建家庭后，在【房间】界面点击右上角“+”进行添加，在添加设备列表中选择“LED控制器”后，安装界面提示完成添加即可。



3. 绑定设备

在“房间”界面点击已添加的旋钮面板进入【控制】界面。

通过长按旋钮的方式，绑定与该产品入网类型一致的灯/灯组；绑定后，可使用旋钮对绑定设备进行调光、调色温以及调RGB颜色等操作。此外，可通过点击场景键区域，绑定本地场景或DALI场景。



4. 本地场景

创建本地场景：

切换到【智能】界面，点击右上角“+”创建本地场景，设置执行动作后，即可实现蓝牙设备的本地联动。

绑定本地场景：

在控制详情页面，点击对应按键并设置绑定场景，保存成功后，通过短按按键立即执行所绑定的场景。



5. 云场景与自动化

确保家庭内已添加智能网关，如超级面板12S。

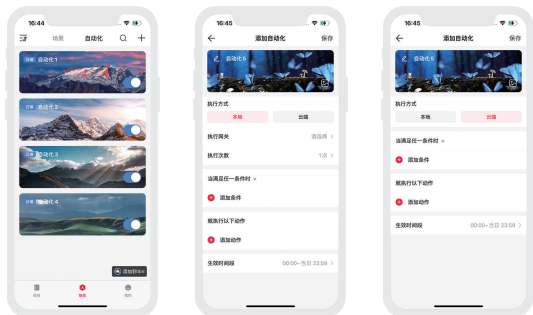
云场景：

切换到【智能】界面，点击“+”创建云场景。设置执行动作后，即可实现远程联动。

自动化：

在【智能】界面中选择“自动化”，点击“+”创建自动化。可选择本地/云端执行方式，以及设置触发条件及执行动作。当满足已设置的触发条件时，自动触发一系列设备动作，实现远程联动。

注：旋钮面板既可设置为触发条件，亦可作为执行动作。



恢复出厂

方法一：

EB6旋钮面板接线上电后，用取卡针长按面板背部复位键6秒(见图1)，直至面板所有指示灯闪烁后熄灭，表示已恢复到出厂设置。

方法二：

需先确认设备已正确接通电源且处于在线状态。随后，打开L-Home APP，找到该设备并进入其设置页面，点击“删除设备”按钮(见图2)。当系统提示“删除成功”时，即表示设备已成功恢复到出厂设置。



图1



图2

常见问题

1.配网失败怎么办？

- ①确保设备正常通电；
- ②需要确认添加的设备未被其他账号添加过，如被添加过，请手动恢复出厂；
- ③确保手机与设备两者尽量靠近，建议不超过15米；
- ④如设备已被强制删除，请手动恢复出厂，然后重新添加设备。

2.如何远程控制设备？

搭配本司智能网关，可通过4G/5G/WiFi手机远程控制设备。

注意事项

- 请由具有专业资格的人员进行调试安装。
- 雷特科技产品（专有型号除外）不能防水防雷，需避免日晒雨淋，如安装在户外，请用防水箱和防雷装置。
- 良好的散热条件会延长产品的使用寿命，请把产品安装在通风良好的环境。
- 请检查使用的工作电压是否符合产品的参数要求。
- 使用的电线直径大小必须能够负载连接的LED 灯具，并确保接线牢固。
- 通电调试前，应确保所有接线正确。
- 如果发生故障，请勿私自维修；如果有疑问，请联系供应商。

保修条例

- 自出厂之日起保修服务期为5年。
- 在保修服务期内出现产品质量问题雷特科技将给予免费修理或更换服务。

非保修条例：

属下列情况不在免费保修或更换服务范围之内：

- 已经超出保修服务期；
 - 过高电压、超负载、操作不当等人为造成的损坏；
 - 产品外形严重损坏或变形；
 - 自然灾害以及人力不可抗拒原因造成的损坏；
 - 产品保修标签和产品唯一条形码损坏；
 - 无雷特科技签订的合同或发票凭证。
1. 修理或更换是雷特科技对客户的一补救措施。雷特科技不承担任何附带引起的损害赔偿 responsibility，除非在适用法律范围之内。
 2. 雷特科技享有修正或调整本保修条款的权利，并以书面形式发布为准。
- * 本说明书的内容如有变更,恕不另行通知。若内容与您使用的功能有所不同,则以实物为准。如有疑问,欢迎向我司授权的经销商咨询。