

Xiaolei

DALI Master (Super Dimming Module)

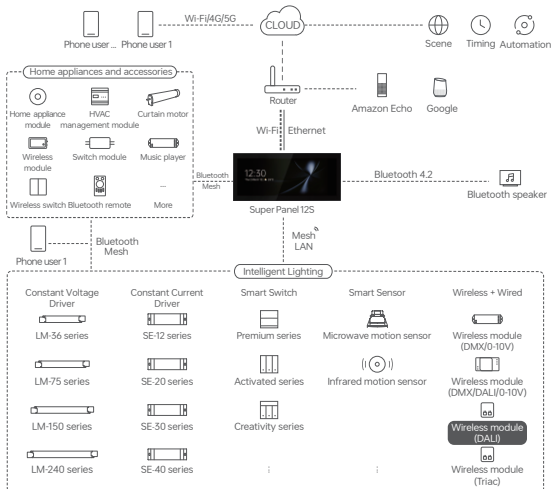
Model: CG-D-PRO



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 provides reliable and stable performance.
- The push-type terminals make it easy to attach wires.
- Support online upgrade and consume ultra-low power consumption.
- Compatible with DIM, CT, and RGB lights and control their output.
- Convert Bluetooth to DALI protocol; Merging the wireless and wired protocol allows more expanded applications.
- Provide multiple options for selecting dimming parameters to meet requirements of smart dimming and color control for demanding dimming places.
- Control up to 64 addresses, 16 groups, and scenes.
- Support the execution of local scenes without the Internet or a gateway, which is faster and more stable.
- Work with a gateway device to achieve various cloud scenes and automation.

Technical Specs

Model	CG-D-PRO
Wireless Protocol Type	Bluetooth 5.0 SIG Mesh
Output Signal	DALI
Number of Addresses	64
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



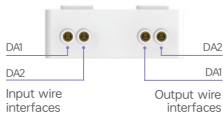
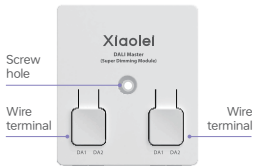
Bluetooth®



RoHS

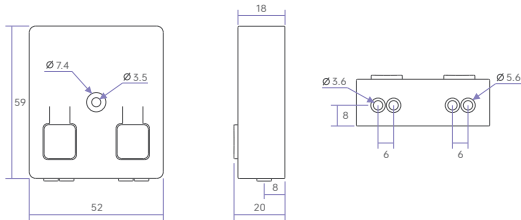


Product Images



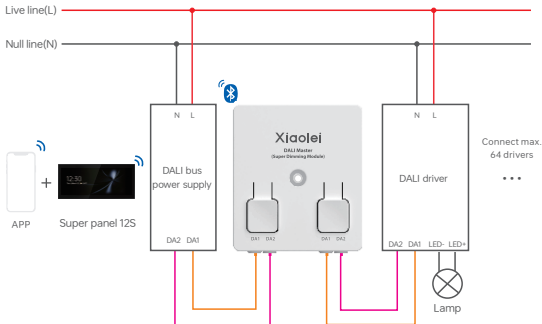
Product Size

Unit: mm

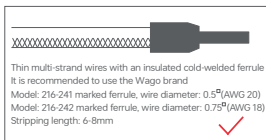
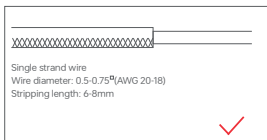
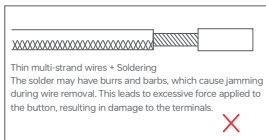
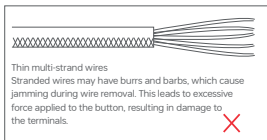


Wiring Diagram

APP + Super Panel 12S + DALI bus power supply + DALI master + DALI driver



Wire Specifications



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.

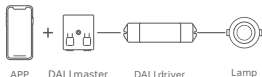
Release wires: Turn off the power before releasing wires. Press and hold the button on the top and gently pull the wires out.

Attentions:

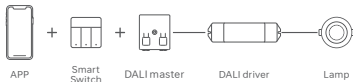
1. Please connect the wires based on the wire specifications. Otherwise the terminals will be easily damaged if the wire diameter is too big;
2. Press the terminals with proper force and keep it vertically downward.

Recommended Applications

1. Wirelessly control the lamp.



2. Visual control of the lamp via a smart switch with a screen.



3. Support the execution of local scenes without the Internet or a gateway.



4. Visual control + Traditional dimming panel and remote controller control.



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

Used with the NFC Lighting APP

1. Register an account

Scan the QR code with your mobile phone to download the app. After completing the app installation as prompted, you can proceed with the login/registration process. (Due to performance requirements, the mobile phone model must meet the following specifications: for Apple devices, iPhone 8 or later with iOS 13 or later; for Android devices, models equipped with NFC functionality.)



* When setting device parameters, the operation must be performed when device is powered off.

2. Set DALI address

Set up the DALI drivers with the NFC Lighting APP. The address range is between 0 and 63, and the address number cannot be repeated.

Connect the DALI drivers with the set addresses to the corresponding terminals of the DALI master(CG-D-PRO)according to the connection diagram on Page 4. Max. 64 drivers are supported.



Used with the L-Home APP

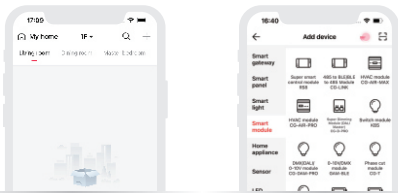
1. Register an account

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



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" - " Super dimming module" from the list. Connect the device to the DALI bus power supply and power it on. Make sure the device is not connected to the network, then click "Search via Bluetooth " and follow the prompts to add the device.



3. Search DALI address

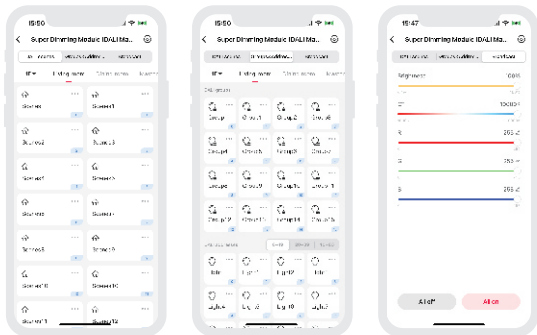
Confirm that the address number of DALI drivers are not repeated and the wire connection has been done correctly according to the wiring diagram on page 4. Then power on the drivers and click "Search address" to wait for the address to be searched successfully.



4. DALI addressable light control: groups and addresses

DALI address control: In the **【Groups & Addresses】** interface, click the corresponding cards for the addressable lights. You'll be able to individually control the lighting effect of each light with address between 0 and 63. The control method is the same as that of Bluetooth lights.

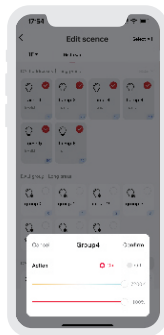
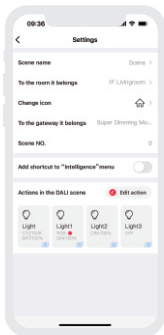
DALI group control: In the **【Groups & Addresses】** interface, click the group card or enter the settings page. Click "Manage the addresses of group lights " and add addressable lights between 0 and 63 to DALI groups from No.0 to No.15 to perform group control. The control method is the same as that of Bluetooth group lights.



5. DALI addressable light control: DALI scenes and broadcast

DALI scene control: In the **【DALI scenes】** interface, set 64 addressable lights and 16 DALI groups as actions in DALI scenes. After saving them successfully, you can go to Settings page and click "Edit action". Or you can long press the corresponding cards of addressable lights and groups to modify the actions more quickly.

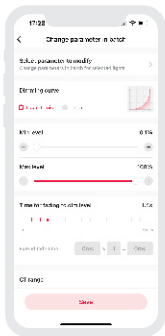
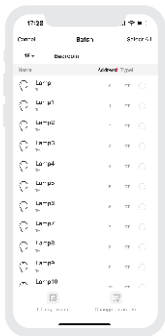
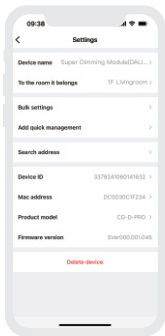
Broadcast control: In the **【Broadcast】** interface, you can simultaneously control on/off and brightness of all DALI addressable lights, as well as K value of CT lights and R, G, B value of RGB lights.



6. Batch setting for DALI addressable lights

Set parameters in batch: Click "⌵" in the upper right corner of "DALI master - Super dimming module" interface, then click "Batch Settings". Pick one or more addressable lights to change parameters. You can click "Change parameter" or "Change room" to batch modify DALI lighting parameters or assigned rooms for one or more addressable lights.

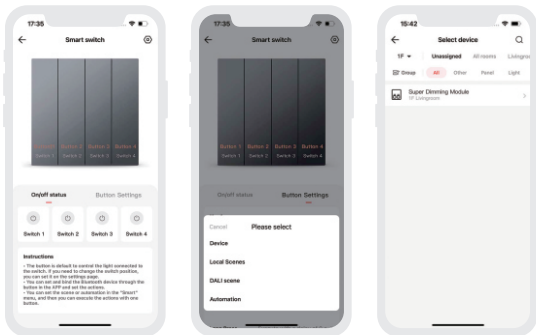
Add quick management in batch: Click "..." in the upper right corner of 【DALI master-Super dimming module】 to enter the settings page, then click "Add quick management" to select the DALI addresses/groups of which you want to batch add/cancel shortcuts.



7. Panel binding

In "Room" interface, click the smart switch you have added to access its control interface. Switch to **【Room】** interface and click the smart switch you have added to access its control interface.

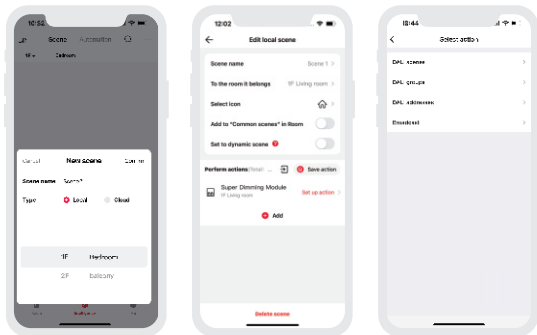
Long press the switch button on the screen you want to bind. Or switch to "Key Settings" and select a binding device by clicking **【Device】** , then set up the action on this switch button, then save your setting.



8. Local scene

Switch to the “Intelligence” interface, click 【+】 in the upper right corner to create a local scene. After setting the execution action, you can achieve local linkage with Bluetooth devices.

* When you edit the action for a local scene and a shortcut has been added to the DALI scene/group/ addressable light , the editing steps will be shortened.



9. Cloud scene and automation

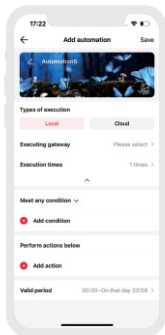
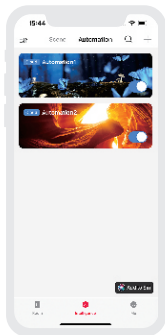
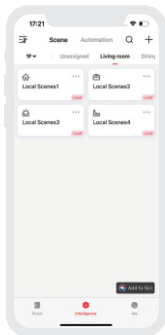
Make sure a smart gateway has been added to your home, such as Super Panel 12S.

Cloud scene: Switch to the “Intelligence” interface and click 【+】 to create a cloud scene.

After setting the execution action, remote linkage can be achieved.

Click 【Automation】 in the “Intelligence” interface and click 【+】 to create automation.

You can choose the local or cloud execution mode, and set trigger conditions and execution actions. When the trigger conditions you set are met, a series of device actions will be automatically triggered to achieve remote linkage.



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 "DALI master" has been correctly connected to the DALI lamp that remains on. Use the switch to turn on/off the DALI master for 6 consecutive times (turn it off and 5s later turn it on. 2s later turn it off again). Repeat the turn-on-off operation for 6 times. When the lamp flashes 5 times, it means that the DALI master has been reset to factory defaults.

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.

* 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:

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 writing shall prevail.

Xiaolei

DALI主控(超级调光模块)

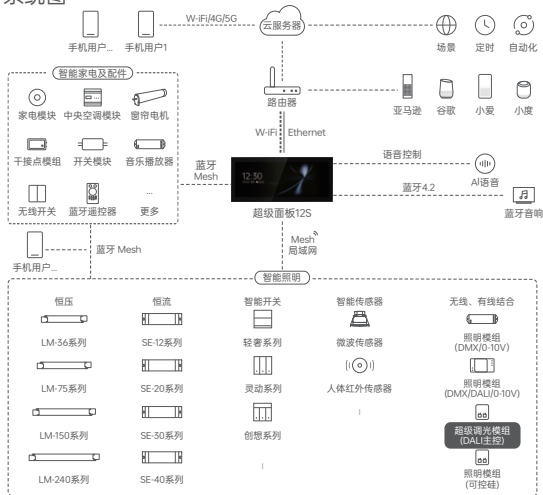
型号: CG-D-PRO



使用说明书

www.xiaolei.cn

系统图



产品介绍

- 体积小、重量轻外壳采用科思创/三星PC阻燃V0级原料；
- Bluetooth 5.0 SIG Mesh 通信协议，组网能力强，可靠稳定；
- 产品采用按压端子设计，安装简易；
- 支持在线升级且功耗超低；
- 兼容DIM、CT、RGB三种类型LED调光控制输出；
- 蓝牙转DALI调光协议，无线与有线结合，扩展灵活；
- 提供多项调光参数设置，满足高要求调光场合的智能化调光调色控制；
- 可控多达64个地址，16个群组、场景；
- 支持本地场景，去网关，断网可控，更快更稳定；
- 可搭配智能网关实现丰富的云场景、云自动化、本地自动化控制方式。

技术参数

产品型号	CG-D-PRO
无线类型	Bluetooth 5.0 SIG Mesh
输出信号	DALI
地址	64
输入电压	12-22.5Vdc
工作温度	-20°C~55°C
产品尺寸	L52×W59×H20(mm)
包装尺寸	L86×W86×H25(mm)
重量(毛重)	40g



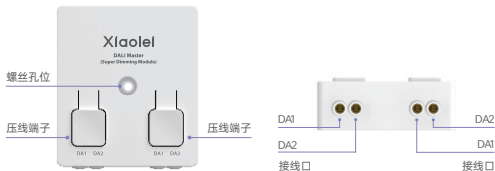
Bluetooth®



RoHS

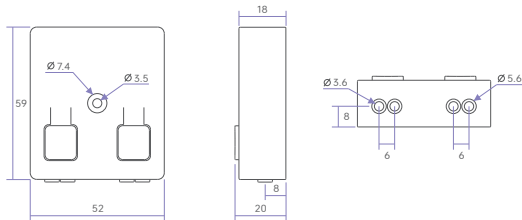


产品图示



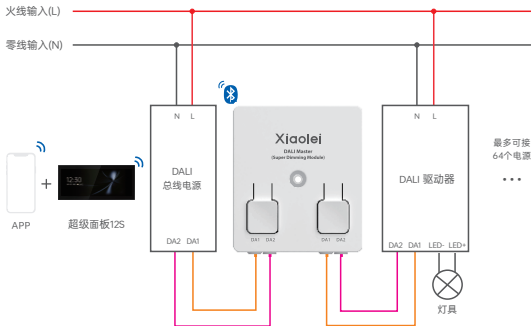
产品尺寸

单位: mm

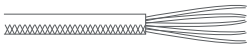


连线图

APP + 超级面板12S + DALI总线电源 + DALI主控 + DALI驱动器



线材要求



细多股导线

多股线会有毛刺，倒刺。导致拆线卡住，致使按钮用力过度导致端子损坏



细多股导线加焊锡

焊锡会有毛刺，倒刺。导致拆线卡住，致使按钮用力过度导致端子损坏



单股导线

线径：0.5-0.75[□] (AWG 20-18)

剥线长度：6 - 8mm



细多股导线，搭配带绝缘保护套的冷压接头，

建议使用万可品牌

型号：216-241 标识套管，线径：0.5[□] (AWG 20)

型号：216-242 标识套管，线径：0.75[□] (AWG 18)

剥线长度：6 - 8mm



接线方式

接线：在断开电源的情况下，将导线平行于接线口，插入相应的端子，直到锁紧即可。

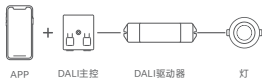
拆线：在断开电源的情况下，按住顶部按钮，将导线轻轻拔出。

注意事项：

- 1.请严格按照线材要求进行接线，否则线径过大容易损坏端子；
- 2.按压时，注意力度适中并保持垂直向下。

应用组合

1.无线控制灯具。



2.可视化智能开关面板遥控控制。



3.支持本地场景，去网关，断网可控。



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。

搭配NFC Lighting 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。(因性能需求，要求手机型号苹果：iPhone8及以上、且操作系统iOS13及以上；安卓：具备NFC功能机型)



* 设置设备参数时，必须在设备断电情况下进行操作。

2. 设置DALI地址

使用NFC Lighting APP设置DALI电源，地址范围：0-63，不可以重复。

把已设置地址的DALI电源按照P4连线图连接到CG-D-PRO对应的端子，最多64台设备。



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。



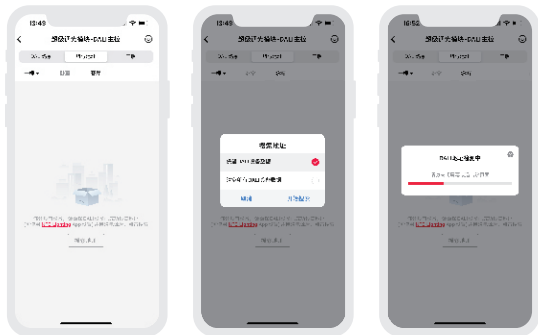
2. 配对操作

新用户创建家庭后，点击右上角“+”进入添加设备列表，选择“智能模块-超级调光模块-DALI主控”后，接入总线电源并将设备通电，确保设备处于未入网状态，然后点击“蓝牙搜索”后，按照提示完成添加设备。



3. 搜索DALI地址

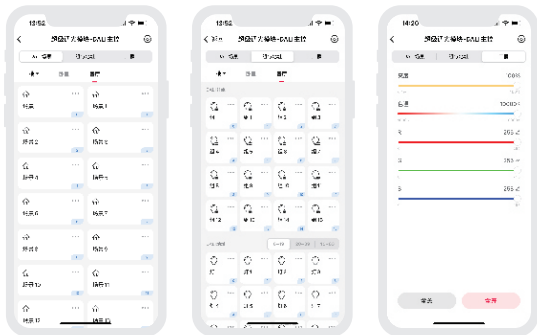
确认DALI电源地址无重复，并按照P4连线图正确连线，接通电源后，点击“搜索地址”，等待地址搜索成功即可。



4. DALI地址灯控制：组与地址

DALI地址控制：在【组与地址】界面，点击对应地址灯卡片，单独控制0-63地址灯光效果，控制方法与蓝牙灯一致；

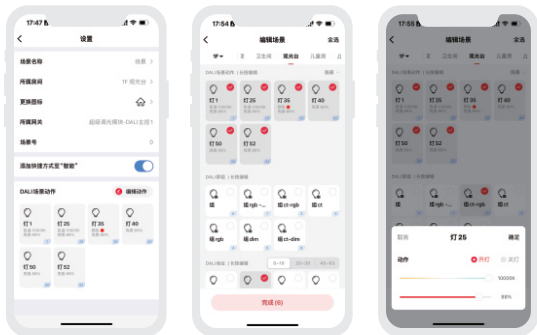
DALI群组控制：在【组与地址】界面，点击群组卡片把0-63地址灯，加入0-15号DALI群组执行群控，控制方法与蓝牙灯组一致，DALI群组支持多种类型地址灯成组。



5. DALI地址灯控制：DALI场景与广播

DALI场景控制：在【DALI场景】界面把64个地址灯和16个DALI群组添加为0-15号DALI场景动作来进行场景控制，保存成功后可在设置页中点击“编辑动作”，长按对应地址灯或DALI群组即可进行快捷修改动作。

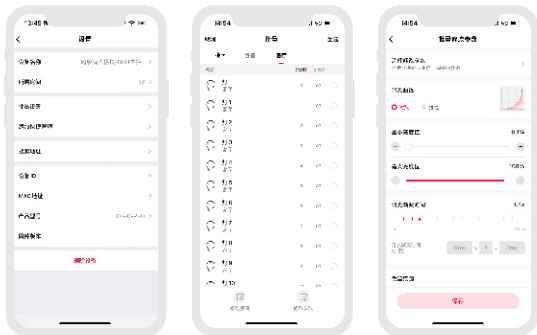
广播控制：在【广播】界面控制所有地址灯的全开、全关、亮度，以及控制色温和RGB类型地址灯的色温K值和R、G、B颜色。



6. DALI地址灯批量设置

批量设置参数：点击【超级调光模块-DALI主控】页面右上角“⦿”，点击“批量设置”，选中单/多个地址灯选择“修改参数”或“修改房间”即可批量修改地址灯光/多项DALI 灯光参数或所在房间。

批量添加快捷管理：点击【超级调光模块-DALI主控】主页右上角“...”，进入设置页面点击“添加快捷管理”选择需要添加/取消快捷方式的DALI地址/群组/场景，即可批量添加/取消快捷方式。



7. 面板设备绑定

切换到【房间】界面，点击已添加的智能开关进入【控制】界面。

长按界面中的对应按键或切换到“按键设置”，选择绑定对象【设备】后，再选择对应动作，点击保存即可。



8.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。

* 编辑本地场景动作时，如果DAL场景/群组/地址已经添加了快捷方式，编辑步骤会缩短。



9. 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。

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。



常见问题

1. 设备一直搜索不到怎么办？

请检查以下选项：

- 1.1 确保设备正常通电状态；
- 1.2 确保手机与设备两者尽量靠近，建议不超过15米；
- 1.3 确保设备未被添加过，如被添加过，请手动恢复出厂。

2. 如何恢复出厂？

确保DALI主控已正确连接灯具且处于常亮状态下，使用开关让DALI主控连续断通电6次（每次断电时间5秒，通电2秒），第6次通电2秒后，灯具闪烁5次，即表示DALI主控已恢复到出厂状态。

注意事项

- 请由具有专业资格的人员进行调试安装。
- 雷特产品（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足够负载连接的LED灯具，并确保接线牢固。
- 通电调试前，应确保所有接线正确，以避免因接线错误而导致灯具损坏。
- 如果发生故障，请勿私自维修；如果有疑问，请联系供应商。防水箱和防雷装置。

* 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。

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最唯一补救措施。雷特科技不承担任何附带引起的损害赔偿，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。