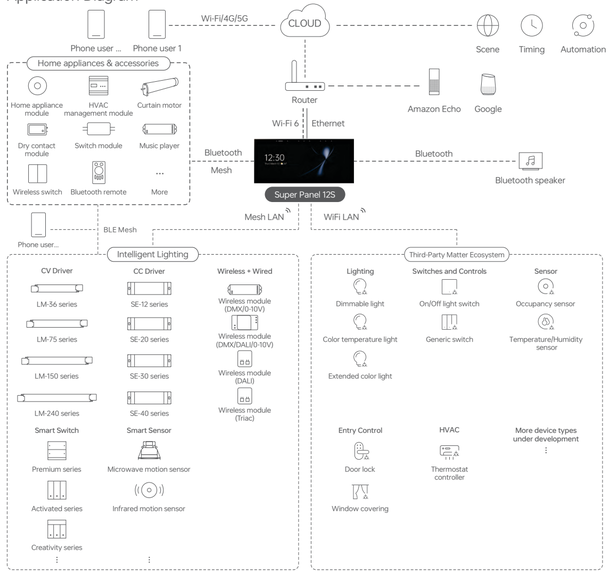
Xiaolei

Super Panel 12S

Manual
www.xiaolei.com.cn

Bluetooth FC CE RoHS

Application Diagram



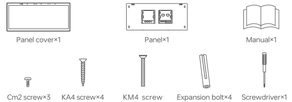
Product Introduction

Super Panel 12S is a 12.3-inch smart home control panel with a built-in Bluetooth gateway and Matter Controller. It connects to smart devices via Bluetooth 5.0 SIG Mesh and integrates third-party Matter devices into the L-Home APP. It also supports direct IR appliance control and RS485 device integration, enabling seamless connectivity across ecosystems. The panel features two relays, a six-microphone omnidirectional array with up to 10 m far-field voice pickup, and built-in ambient light and proximity sensors for automatic brightness adjustment and screen wake-up. With touchscreen, voice, and APP control, users can easily manage devices and activate preset scenes. Local control ensures fast, stable operation even without an internet connection. Designed for standard dual 86-type wall boxes, the panel offers three installation options to suit different applications.

Technical Specs

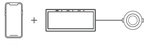
Model	SP-GW-12S
Wireless network	Bluetooth 5.0 SIG Mesh, BLE 5.1, Wi-Fi 6 2.4G+5G
Wired network	Ethernet
Power supply	100-240V~, 50/60Hz, Type-C cable powered, 12V⎓1.5A
Display	12.3-inch FHD screen, 1920×720 resolution
Microphone	Six omnidirectional microphone array
Touchpad	Capacitive multi-touch screen
Speaker	AAC SLS speaker
Communication type	RS485, security ports, Matter controller
Materials	PC+ V0 fireproof grade
Single load	LED≤300W, ☼≤600W
Channel of load	2 Channels
Inrush current in loads	Max.65A@2ms
Working environment	-15°C~50°C, Humidity≤85%RH
Dimensions	L317×W141×H42.5(mm)
Package size	L360×W184×H65(mm)
Net weight	1100g
Junction box	2-gang 86 type junction box

Package Contents

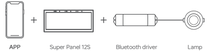


Recommended Applications

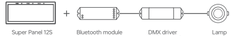
1.Connect Super Panel 12S to a traditional lamp and to the APP so as to intelligently control the lamp.



2.Connect Super Panel 12S to the APP to realize remote control (via 4G, 5G, Wi-Fi) + local control of the lamp.



3.Super Panel 12S works with a Bluetooth LED module to realize wireless + wired control of the lamp.



4.Super Panel 12S works with a home appliance module to control lamps, air conditioning, curtain motors and more devices, as well as to realize various automation.



5.Achieve multi-device control. The APP, Super Panel 12S, remote, and wireless switch can simultaneously control the lamp.



6.Whole house smart control system. Combine other smart gateways, smart switches, and microwave sensors to achieve voice intercoms, turning lights off when people leave, and other scene modes for whole house smart control.

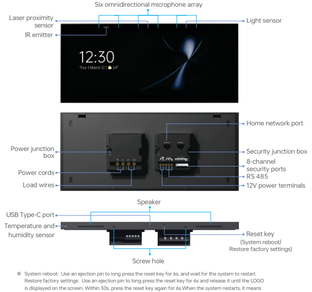


7. Connect third-party Matter devices through Super Panel 12S to break down brand barriers and enable cross-ecosystem integration.



8. More applications of smart control are waiting for you to set up.

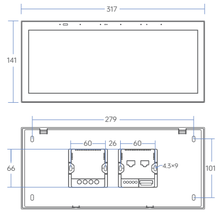
Product Overview



※ System reboot: Use an ejection pin to long press the reset key for 8s, and wait for the system to restart.
Restore factory settings: Use an ejection pin to long press the reset key for 6s and release it until the LOGO is displayed on the screen. Within 30s, press the reset key again for 6s.When the system restarts, it means the device has been reset to factory defaults.

Product Size

Unit: mm



Installation Steps

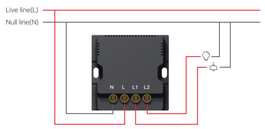
1. AC -powered

1.1 Please be sure you're using a 2-gang junction box and the inner size of each junction box must be greater or equal to 72×72mm. Turn off the power at the circuit breaker first. Please ensure a flat wall surface to install and remove any concrete or corrosion that are inside the boxes. Trim each wire in the box to about 10cm.
(If only one junction box is prepared for installation, you need to use a screwdriver to remove the security junction box on the right.)



1.2 Connect wires

Attach the live line to L socket of the panel, the null line to N socket and the load wires the lights to L1L2 port. Make sure the wires are well connected to the switch terminals with no copper wire exposed. If necessary, insert a network cable into the network socket. (The protection device for the electronic switch cannot be greater than 35A)



Wire connection for 8-channel security ports

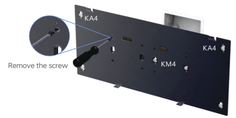
The 8-channel security ports (No.1-8) support connection to alarm devices and two ground ports are equipped. Note: When alarm devices are connected, there is no need to connect them in series.
(For the specific power supply modes, please check the alarm device manuals)



1.3 Installation method

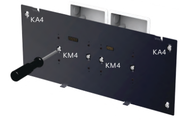
1.3.1 Install the power junction box

When your home doesn't need to connect with alarm devices or only one junction box is prepared in advance, please use a screwdriver to remove the security junction box first. Next mark the positions of the screw holes on the wall first and drill holes, then insert the expansion bolts into the screw holes. Place the KA4 screws into the bolts at the four corners of the panel frame, and secure the screws to fit the panel frame to the wall with a screwdriver. Next use KM4 screws to secure the power junction box to the wall box.
Note: Make sure the panel frame is stable and won't appear crooked.



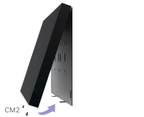
1.3.2 Install the power and security junction box

When you apartment or home supports connections to alarm devices or two junction boxes are prepared in advance, install the power and security bottom box. Mark the positions of the screw holes on the wall first and drill holes, then insert the expansion bolts into the screw holes. Place the KA4 screws into the bolts at the four corners of the panel frame, and secure the screws to fit the panel frame to the wall with a screwdriver; Next use KM4 screws to secure the power and security junction box to the wall boxes .
Note: Make sure the panel frame is stable and won't appear crooked.



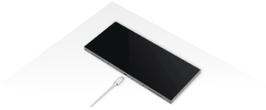
1.4 Snap on the panel cover

Slant the panel cover and snap the top cover to the panel frame. Then secure the panel cover to the frame from the bottom with CM2 screws.



2. Type-C powered

Install on any desktop and power it with a power cord.



⚠ This product only supports the 12V ⎓ 1.5A power cord and the PD power adapter.

Instructions to use Super Panel 12S

① Long press and drop the card widgets on the homepage to customize the combination the card widgets .
② Swipe down from the top of the screen to access the control center; swipe up to close it.



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.



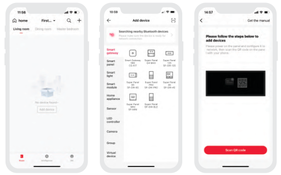
2. Configure the Super Panel 12S

Power on the Super Panel 12S and wait for a while to start it up. Follow the page guidelines of the panel to connect it to the Wi-Fi. Once connected successfully, a QR code for the device will be displayed on the interface and you'll be able to complete the configuration.



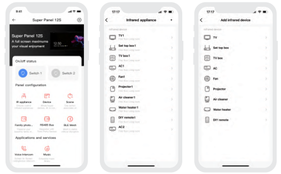
3. Bind your account

Create a home if you are a new user. Then click "+" icon in the upper right corner to access the "Add device" page. Pick "Smart gateway-Super Panel 12S" from the device list and follow the prompts to scan the QR code displayed on the Super Panel 12S screen, then complete your account binding.



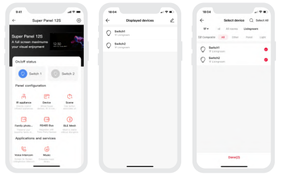
4. Add infrared devices

Go to the Super Panel 12S interface and click "Infrared appliance" , then tap "+" icon in the upper right corner. Follow the prompts in APP to select your infrared home appliances according to the appliance type and brand. After completing the setting, you can directly control the infrared home appliances with the Super Panel 12S.



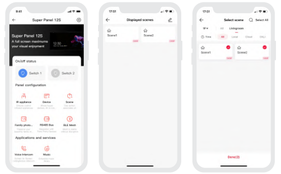
5. Control devices with the Super Panel 12S

Please refer to manuals of related products. Follow the prompts to add the devices your want and access the Super Panel 12S interface. Click "Device" to go to "Displayed devices" interface. Then click the icon in the upper right corner to pick the devices your want to control with the Super Panel 12S and save them.



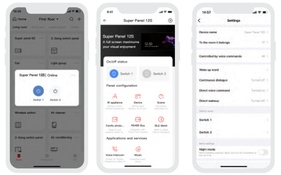
6. Control scenes with the Super Panel 12S

Create scenes: Get back to the homepage of the App. Switch to"Intelligence"menu and click "+" icon to add scenes. Follow prompts to modify names and icons for scenes, and click "Add action" to set up the action and delay time you want.
Displayed scenes: Go to the Super Panel 12S interface and click "Scene" to access "Displayed Scenes" interface.Click the icon in the upper right corner to add the scenes you want to control with the Super Panel 12S.



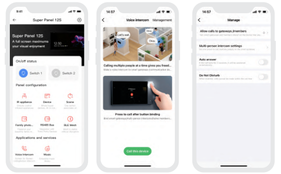
7. Set up the relay (Switch 1/Switch 2)

In the "Room" interface, click the blank area of the Super Panel 12S card to get a popup and control Switch 1/Switch 2 quickly. Or you can go to the Super Panel 12S interface to turn Switch 1/Switch 2 on or off by tapping them.Go to the Super Panel 12S settings and click them to name the relay (Switch 1/Switch 2).



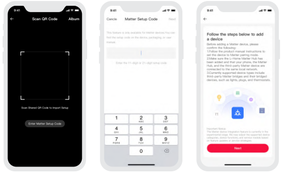
8. How to set making voice intercoms on the panel

Voice intercom: Switch to the "Intelligence" menu and click "Voice intercom" to enter the interface of "Displayed device". At the top right, click"Manage", then follow the prompts to set up voice intercom.
Make voice intercoms to or on other smart gateways/communication devices in your home. Calling multiple people at a time gives you freedom.



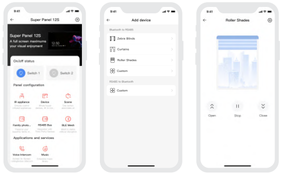
9. How to Add Matter Devices to L-Home App

Preparation: Power on the Matter device and set it to pairing mode. Make sure your phone and Super Panel 12S are connected to the same local network.
Adding Process: Open the QR code scanning page in the L-Home App. Scan the QR code on the device or manually enter the Matter setup code to add the device.
Note: Super Panel 12S supports direct addition of Matter over Wi-Fi devices. To add Matter over Thread devices, a Matter hub with Thread Border Router capability (such as HomePod mini, HomePod 2nd generation, or Samsung SmartThings Station) is required. First add the device to the Matter ecosystem through the Matter hub, then share the Matter setup code to add it to the L-Home App.
Currently Supported Device Types:
Lighting: Dimmable lights, tunable white lights, and color lights
Sensors: Occupancy sensors, temperature and humidity sensors
Switches: On/off light switches and general switches
Other Devices: Curtains, door locks, air conditioners, and more



10. Connect Third-Party RS485 Devices

This product is equipped with an RS485 interface, allowing third-party RS485 devices to be added to the L-Home App for control. It also enables third-party RS485 systems to control Bluetooth devices in the L-Home smart home system.
Bluetooth to RS485: Supports seamless integration with mainstream RS485 curtain motors on the market. Custom RS485 commands can also be configured to control various RS485 devices.
RS485 to Bluetooth: Users can configure corresponding RS485 commands for devices or scenes in the L-Home App. When a third-party RS485 system sends the configured commands, the L-Home smart home system will automatically execute the corresponding actions.



FAQs

1.How to change the user account ?
Super Panel 12S has one standard user account only. The Super Panel 12S that has been added needs to be deleted with the APP before your login.

2.How to reset the device?
Use an ejection pin to long press the reset key for 6s, and wait for the system to restart.

3.How to reset the device to factory defaults?
Use an ejection pin to long press the reset key for 6s and release it until the LOGO is displayed on the screen. Within 30s, press the reset key again for 6s.When the system restarts, it means the device has been reset to factory defaults.

Attentions

- Products shall be installed by qualified professionals.
- LTECH products are non-waterproof and not lightningproof (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 extend 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 headquarter or our official distributors if you have any questions.

Warranty Agreement

Warranty periods from the date of delivery : 2 years.
Free repair or replacement services for quality problems are provided within warranty periods.
Warranty exclusions below:

- 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.

Update Time: 09/20/2026_A5

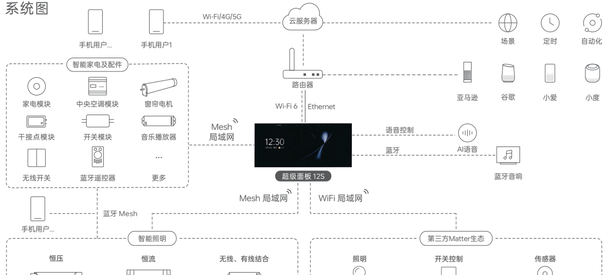
Xiaolei

Super Panel 12S
超级面板 12S

使用说明书
www.xiaolei.cn

Bluetooth FC CE RoHS

系统图



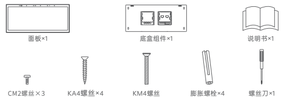
欢迎使用

Super Panel 12S是一款12.3寸的智能家居控制面板，内置蓝牙网关和Matter Controller功能，支持通过蓝牙 5.0 SIG Mesh与智能子设备连接，也支持将第三方 Matter 设备接入到 L-Home APP 中，同时还支持直连红外家电功能，对接第三方 485 设备，拥生态设备无缝智联。产品具有两路继电器，采用全向线六麦克风阵列设计，支持 10 米超远场拾音，内置光感传感器、距离传感器，可自适应调节亮度和人体靠近屏幕自动唤醒功能。支持触屏、语音及 APP 三大交互，预设多功能场景一键即达，轻松实现近、中、远场控制，还可以支持本地化控制，实现断网亦可控、更快更稳定的智控功能。标准 86 双底盒设计，三种安装使用方式，适配更多使用场景。

技术参数

产品型号	SP-GW-12S
无线网络	Bluetooth 5.0 SIG Mesh，BLE 5.1，Wi-Fi 6 2.4G+5G
有线网络	以太网
供电方式	100-240V~，50/60Hz；Type-C数据线供电，12V⎓ 1.5A
显示屏	12.3寸FHD全高清屏，分辨率1920×720px
麦克风	全向线六麦克风阵列
触控层	电容式多点触控
扬声器	AAC SLS大师级喇叭
通讯类型	RS485，安防接口、Matter Controller
机身材质	PC+V0防火级别
单路负载	LED≤300W，☼ ≤600W
负载路数	2路
负载抗浪涌电流	Max.65A@2ms
工作温度	-15°C~50°C，湿度≤85%RH
产品尺寸	L317×W141×H42.5(mm)
包装尺寸	L360×W184×H65(mm)
产品重量	1100g
安装底盒	标准86双底盒

包装清单



推荐应用搭配

1.超级面板12S连接传统灯具后，APP添加超级面板12S，可实现智能控制灯具。



2.APP搭配超级面板12S，实现远程(4G、5G、Wi-Fi)+本地局域网种模式控制灯具。



3.超级面板12S搭配蓝牙无线模块可实现无线+有线控制，丰富灯光应用。



4.超级面板12S搭配家电模块控制灯具、空调、智能窗帘等设备，实现丰富的自动化控制。



5.多点控制，APP、面板、遥控、无线开关同时控制灯具。



6.超级面板12S，通过搭配其他智能网关，智能开关，微波传感器，可实现语音对讲、人走灯灭等不同场景模式的全屋智能化控制。

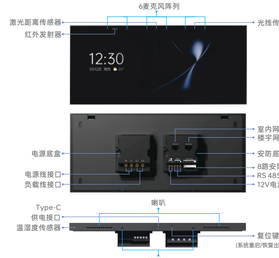


7.通过超级面板12S接入第三方Matter设备，打破品牌壁垒，实现跨生态互联。



8.…智能控制，更多应用搭配等您来设置。

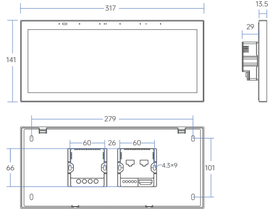
产品图示



* 系统重启: 使用前卡针 长按6秒复位键等待系统重启。
恢复出厂设置: 使用前卡针, 长按6秒复位键直到界面显示LOGO后松开。
在30秒内再次长按复位键6秒, 等待恢复出厂。

产品尺寸

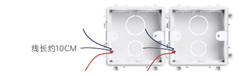
单位：mm



安装方法

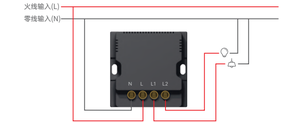
一、市电供电

1.确定暗装底盒，必须使用双排暗装底盒，且底盒内尺寸必须≥72×72mm。
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。（如若只预留一个安装暗盒，需使用螺丝刀拆除安防底盒）



2.接线

将火线接入面板底盒的L接口，零线接入底盒的N接口，负载灯线接入底盒L1/L2接口，确认电源线与开关接线柱接触良好，无裸露铜线。如需接网线，将网线接入网线插孔。(电子开关的前置保护装置不能高于35A)



8路安防接线方式

8路安防接口(1-8号)，均支持接入报警设备，并有两个地线端口。
注：报警设备接入时，无需串联设备。
(具体供电方式，请查看报警设备说明书)



可视对讲接线方式

超级面板12S安防底盒通过电源端口外接12V电源，再通过安防底盒的楼宇网络端口与门口设备连接到同一局域网中，最后通过室内网络端口连接到家庭局域网，即可实现可视对讲功能。
(若无预留家庭局域网接口，连接家庭Wi-Fi亦可。)

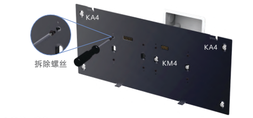


注：家庭若需使用8路安防和可视对讲接两种功能，结合以上两种接线方式即可。

3.组装方式

(1)安装电源底盒

当家庭无需接入可视对讲和报警设备或预留一个安装暗盒时，先使用螺丝刀拆除安防底盒，再在墙面标记螺丝孔位并打孔装入膨胀螺栓，在安装凹角螺丝孔位使用KA4螺丝使支架贴合墙面；用KM4螺丝将电源盒固定在墙壁暗盒上。
注意：固定好支架使其不晃动，并保持平整不变形。



(2)安装双底盒

当小区或家庭支持接入可视对讲功能和报警设备或预留两个安装暗盒时，在墙面标记螺丝孔位并打孔装入膨胀螺栓后，在支架凹角螺丝孔位使用KA4螺丝使支架贴合墙面；用KM4螺丝将电源盒固定在墙壁暗盒上。
注意：固定好支架使其不晃动，并保持平整不变形。



4.扣合面板

倾斜面板从上往下扣合在支架上，用CM2螺丝从面板底部将面板和支架锁紧。



二、Type-C供电

在任意桌面安装，使用电源线供电。



⚠ 本产品只支持12V＝1.5A供电的电源线与PD协议的电源适配器。

使用说明

一、手势操作

①在首页长按卡片组件即可自定义首页组合。

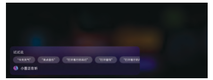
②从屏幕顶部向下滑动，可展开控制中心；向上滑动可收起。





二、语音控制

可以语音唤醒后说出语音技能。不仅可以语音控制设备，还可以听音乐、听新闻等。更多语音技能，可通过超级面板12S【控制中心】-【设置】-【语音控制】-【语音指引】查看。



APP操作指引

1. 账号注册

通过手机扫描下方二维码，按提示完成APP安装，进行登录/注册操作。



扫码下载APP



2. 配置超级面板12S

将超级面板12S接通电源，等待设备启动。根据超级面板页面指引，连接设备工作的Wi-Fi。连接成功后，界面呈现出设备二维码，完成配置。





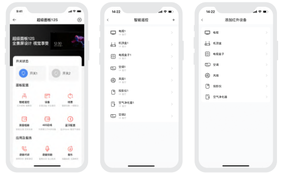
3. 账号绑定

新用户在APP上创建家庭后，在【房间】界面点击右上角"＋"进行添加设备，在添加设备列表选择"智能网关-超级面板12S"后，按照界面提示，扫描超级面板12S上的二维码，完成绑定。



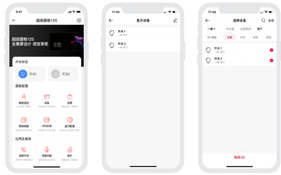
4. 如何添加红外设备

进入超级面板12S的界面，点击"智能遥控"，点击右上角"+"，根据APP提示选择家电类型和品牌后完成添加，即可通过超级面板12S控制红外家电。



5. 如何在面板上控制设备

请参照相关产品的说明书，按照提示添加完成设备。进入超级面板12S的界面，点击"设备"进入显示设备界面。点击右上角图标，勾选您要在超级面板12S上控制的设备后，点击保存即可在超级面板12S上控制该设备。



6. 如何在面板上控制场景

创建场景：切换到【智能】菜单，点击右上角"+"创建场景，按照提示可以修改场景名称、图标等。点击"添加动作"设定您想要的动作以及延时时间。

显示场景：进入超级面板12S界面，点击"场景"进入显示场景界面。点击右上角图标，添加您要在超级面板12S上控制的场景即可。



7. 继电器设置

在【房间】页面，点击超级面板卡片空白处弹出继电器快捷控制，或进入超级面板12S的界面，点击开关1/开关2可控制两路继电器的开/关，或进入超级面板12S的【设置】界面，点击对应的按键，可修改继电器的名称。



8. 如何在面板上设置语音对讲

语音对讲：进入超级面板12S的界面，点击"语音对讲"进入显示设备界面，点击右上角"管理"按照提示可以设置语音对讲。

语音对讲支持APP与超级面板12S互相呼叫，家庭内的智能网关和通讯设备。可相互语音对讲，多人同呼，沟通更自由。



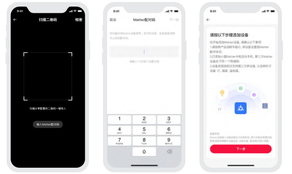
9. 如何添加 Matter 设备到 L-Home App

准备工作：将Matter设备上电并设置到配网状态，然后将手机，超级面板切换到同一个局域网中。

添加流程：进入扫描二维码界面，通过扫描或输入设备上的二维码来添加.

备注：本设备可直接添加Matter over WiFi设备，如需添加Matter over Thread设备，需要先通过具备Thread边界路由功能的Matter中枢（如Home pod第二代，Home pod mini，Samsung SmartThings Station等）将设备添加到Matter生态，然后再分享Matter配对码加入到L-Home。

目前支持的设备类型有：照明类的调光灯，色温灯，彩色灯，传感器的占用传感器，温湿度传感器，开关类的开/关灯开关，通用开关，以及窗帘，门锁，空调等类型。



10. 对接第三方 485 设备

本产品具有 RS485 接口，可将第三方的 485 设备接入到 L-home 控制，也可让第三方 485 系统控制小雷智能家居的蓝牙设备。

蓝牙转 485：可完美对接市面上主流的485窗帘电机，也可以自定义 485 指令控制各种485设备。

485 转蓝牙：可在L-home中编辑好485指令对应的设备或场景，当第三方485系统发送对应的指令后，小雷智能家居系统就会执行对应的动作。



常见问题及回答

1. 如何更换账号？

超级面板12S采用一对一账号体系，被添加过的设备需要在APP删除后，才能重新添加。

2. 如何重启设备？

使用取卡针，长按6秒复位键等待系统重启。

3. 如何恢复出厂？

使用取卡针，长按6秒复位键直到界面显示LOGO后松开，在50秒内再次长按复位键6秒，等待系统重启即表示已恢复到出厂设置。

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。

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，欢迎向我司或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2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维修或更换服务。

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：

- 已经超出保修期限的；
- 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唯一补救措施。雷特科技不承担任何附带引起的损害赔偿责任，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。



※ 咪咕音乐提供的音乐服务将随运营规则调整而变化。

更新时间: 2026.09.20_A5