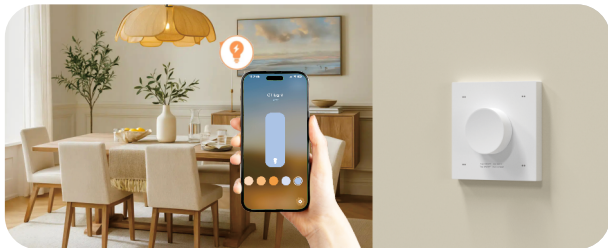


Matter-0-10V Knob Panel

Model: E6A-MA1/E6A-MA2



Manual



Product Introduction

- It features a stylish exterior design paired with innovative multi-color status indicators, delivering intuitive tech interaction.
- This device is a protocol converter that translates Matter to the standard 0-10V protocol. It supports dimmable lights, color temperature adjustable lights and complies with the Matter over Thread certification specifications.
- It supports control via mainstream smart home platforms, including Apple Home, Google Home, Amazon Alexa, SmartThings and more.
- Voice control is available with Apple Siri, Google Assistant, Amazon Alexa, Samsung Bixby, etc.
- Equipped with standard Matter OTA online firmware update capability, it continuously receives new features and security patches to ensure long-term stable operation of the device.
- Parameters such as the starting scene actions can be configured via the NFC Lighting APP, enabling quick setup and commissioning of lighting scenes.
- It fits both European and Chinese standard wall boxes, suitable for a wide range of installation scenarios.



matter

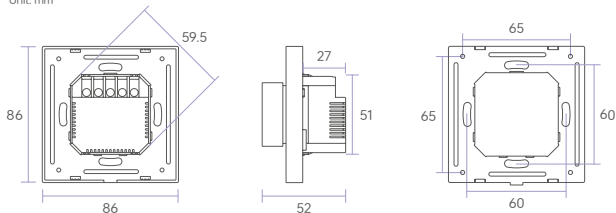


RoHS

NFC

Product Size

Unit: mm



Specification Parameters

Model	E6A-MA1		E6A-MA2
Wireless type	Matter over Thread, BLE(Network Configuration & Debugging), NFC(DMX Parameter Setting)		
Control Type	DIM		CT
Rated Parameters	100-240Vac, 50/60Hz		
Output Signal	0-10V		
Compatible Driver	0-10V DIM		0-10V CCT
Compatible APP	NFC Lighting, Apple Home, Smarthings, Google Home, Amazon, Aqara, Tuya		
Working Temperature	-25°C~50°C		
Dimensions	86×86×52mm (L×W×H)		
Package Size	102×102×73mm (L×W×H)		
Product Weight	130g		

Product Function Description

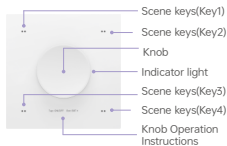


Front view



100-240V~ power input 0-10V signal output

① E6A-MA1 Dimming Panel



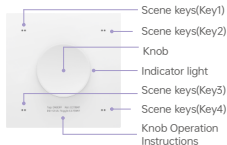
Scene Keys: The factory default settings include four brightness levels (Key 1: 25% brightness, Key 2: 50% brightness, Key 3: 75% brightness, Key 4: 100% brightness). Press briefly to trigger a scene, or press and hold for 2 seconds to save the current lighting state. To customize scene actions, you can reconfigure them using the NFC Lighting app.

Knob: Supports Tap (ON/OFF), Rotate (Adjust BRT) and Hold (Adjust BRT). Three sensitivity levels (High / Medium / Low) are available for setting.

Indicator light: Illuminates white while adjusting brightness.

Factory Reset: Long press the knob for 15 seconds until the indicator flashes slowly, then release it. Shortly press the knob 3 times within 3 seconds. Rapid flashing of the indicator means factory reset is completed.

② E6A-MA2 Color Temperature Panel



Scene Keys: The device comes with four factory-preset color temperature settings (Key 1: 2700K, Key 2: 3500K, Key 3: 5000K, Key 4: 6500K). Press briefly to activate a scene, or press and hold for 2 seconds to save the current lighting state. To customize scene actions, you can reconfigure them using the NFC Lighting app.

Knob: Supports Tap (ON/OFF), Double click (Switch mode: CCT / BRT), Rotate (Adjust current mode: CCT / BRT), and Hold (Adjust BRT). Three sensitivity levels (High / Medium / Low) are available for setting.

Indicator Light: Turns white when adjusting BRT, and yellow when adjusting CCT.

Factory Reset: Long press the knob for 15 seconds until the indicator flashes slowly, then release it. Shortly press the knob 3 times within 3 seconds. Rapid flashing of the indicator means factory reset is completed.

Installation Steps

① Turn off the main power switch and ensure that there is no cement or other debris attached to the inner wall of the 86 mounting box. Trim the power wires inside the box to a length of approximately 10 cm. Use a flathead screwdriver to pry open the base of the rotary panel, and locate the NFC Sensing Area on the plastic component.

Typical junction boxes



European style



86-type box



NFC Sensing Area

② Open the NFC Lighting APP on your smartphone. On the home page, tap [Read/Write Smart Device], then place the NFC sensing area of your phone close to the NFC marking on the rotary panel to read the panel parameters. Adjust the parameters as needed (see details on P11), then tap the [Write] button in the upper right corner. Place the phone's NFC sensing area near the NFC marking again to write the settings directly to the rotary panel.



③ As shown in Figure 1, after reading and writing parameters via NFC, connect the live wire to the L terminal and the neutral wire to the N terminal of the smart switch. Ensure the power wires are securely connected to the terminals, with no exposed copper. (The front-end protection device for the electronic switch must not exceed 35A.) As shown in Figure 2, use screws to fix the base box into the wall-mounted 86 box, making sure the base sits flush against the wall.

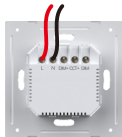


Figure 1



Figure 2

④ Tilt the panel and snap it onto the base box. Turn on the main power switch. Press the rotary panel, if the lighting can be controlled normally, the installation is successful.

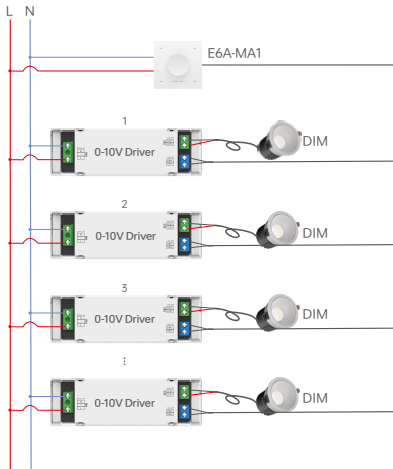
Note: Always disconnect the power supply before installing the panel. Live wiring may cause device malfunction.



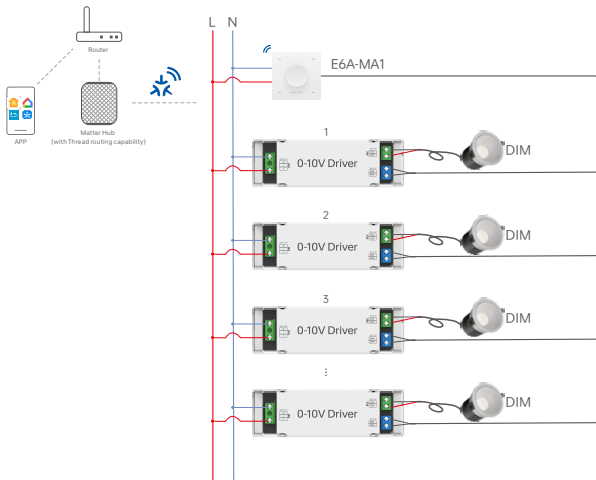
Step 1: Snap the panel in from the top.

Step 2: Press to secure the bottom.

E6A-MA1 0-10V Application Diagram

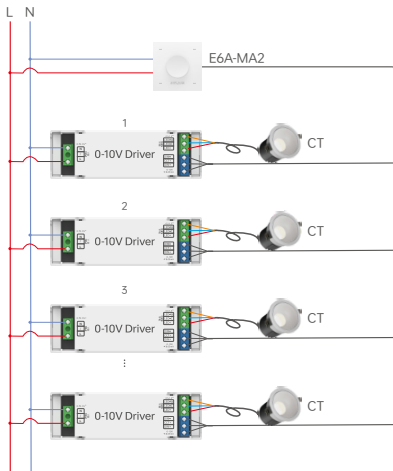


E6A-MA1 Matter Application Diagram

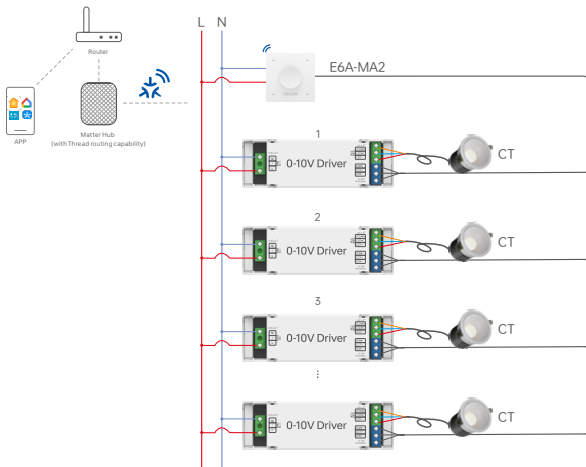


* Please avoid placing the wireless drive near large metal objects or using it in areas with a high concentration of metal, to prevent signal interference that could affect performance.

E6A-MA2 0-10V Application Diagram



E6A-MA2 Matter Application Diagram



* Please avoid placing the wireless drive near large metal objects or using it in areas with a high concentration of metal, to prevent signal interference that could affect performance.

Use with NFC Lighting APP

1. Install the software

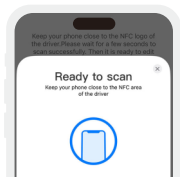
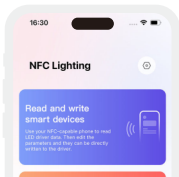
Scan the QR code below with your phone and follow the prompts to complete the APP installation. (Due to performance requirements, the phone model is required for Apple: iPhone 8 and above, and operating system iOS 13 and above; Android: NFC-functional model)



* Device parameters must be set while the device is powered off.

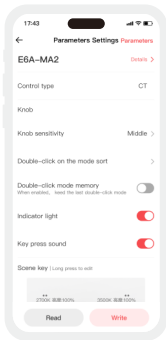
2. Read/write knob panel

Click [Read/Write Smart Device] on the "Homepage" of the APP, and bring the phone's sensing area close to the NFC marking of the knob panel (Figure P5) to read the knob panel parameters.

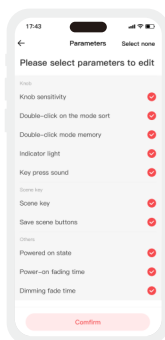


3.Parameters Settings Settings

Parameters Management: Tap "Parameters" to edit advanced settings such as Knob sensitivity, Double-click on the mode sort, Double-click mode memory, Indicator lights, Key press sound, Scene key, Save scene buttons, Powered on state, Power-on fading time, Dimming fade time, and more.



Parameters Settings

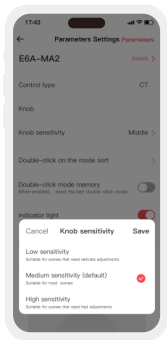


Parameters

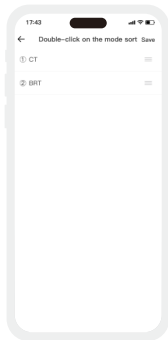
4. Knob and Scene Keys Settings

Knob: Tap “Knob Sensitivity” to select Low/Medium/High sensitivity; tap “Double-Click Mode Order” to adjust the order of color temperature and brightness (E6A-MA2) when double-clicking the knob; enable or disable double-click mode memory (off by default); enable or disable the indicator light (on by default); enable or disable button sounds (on by default).

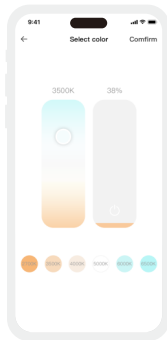
Scene key: Long press a scene button to bind execute an action. Enable or disable Save scene buttons (enabled by default).



Knob Settings



Double-click on the mode sort Settings



Scene Action Settings

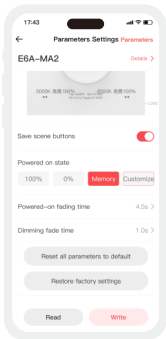
5.Other Settings and Factory Reset Operations

Power-on State: 100% / 0% / Memory / Customize are optional, with Memory as default.

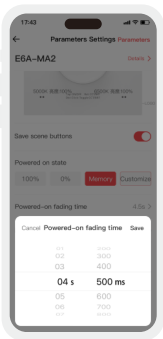
Power-on Fading Time: Fade duration after power restoration, default is 4.5 seconds.

Dimming Fading Time: Fade time for brightness adjustment (E6A-MA1)and color temperature adjustment (E6A-MA2), default is 1 seconds.

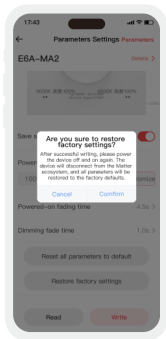
Factory Reset: Click the Restore Factory Settings button to restore all page parameters to factory defaults. Then click the Write button to save parameters to the device. The reset takes effect after device power restart.



Power-on Status



Power-on fading time



Restore factory settings

Add to Matter Platform Instructions

1. This device supports control via major smart home platforms, including Apple Home, SmartThings, Amazon Alexa, Google Home, and others.
2. To connect Matter over Thread devices, you need a Matter hub supporting Thread border router functionality from major platforms. Refer to the image below for compatible models.

 Apple Home	 Google Home	 Amazon Alexa	 SmartThings
Apple HomePod (second-gen)	Google Nest Hub (2nd Gen)	Amazon Echo (4th-gen)	Aeotec SmartThings Smart Home Hub
Apple HomePod Mini	Google Nest Hub Max	Amazon Echo Hub	Samsung SmartThings Station
Apple TV 4K (2nd gen)	Google Nest Wifi Pro	Amazon Echo Show 8 (3rd-gen)	Samsung SmartThings Hub Dongle
Apple TV 4K (3rd gen, 128 GB)	Google TV Streamer (4K)	Amazon Eero 6, Pro 6, 6 Plus, Max 7 etc.	Samsung SmartThings Hub v3

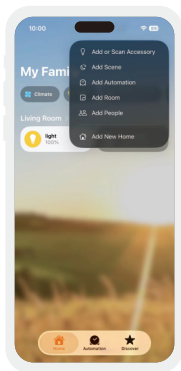
3. This guide uses Apple Home as an example. First, prepare an iPhone (iOS 16.2 or later) or iPad (iPadOS 16.2 or later) with the latest firmware, along with an Apple HomePod mini also running the latest firmware. Then connect your iPhone or iPad to your home Wi-Fi network, launch the Apple Home app, and follow Apple's instructions to set up the HomePod mini.

*For iPhone models 16 and above, no Matter hub is required; devices can be added directly.

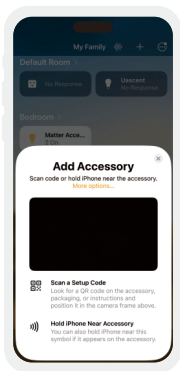
Add Steps(Taking Apple Family as an Example)

1. Add accessories

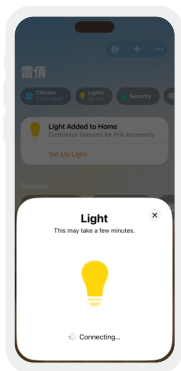
Open the Apple Home app and tap "Add or Scan Accessories." Add the device to the Home app by scanning the QR code sticker on the device, as shown below.



Add or Scan Accessory



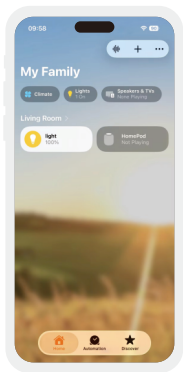
Scan the accessory QR code



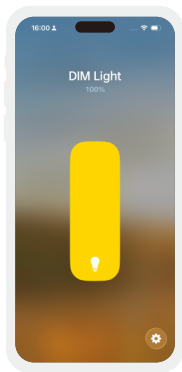
Connect the accessory

2.Control device

After successfully adding a device, click the device icon to turn it on or off; click the device card to enter the brightness and color temperature control interface.



Home Devices



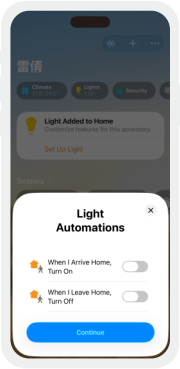
Dimmer Control



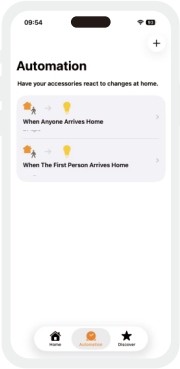
CCT Light Control

3. Advanced Features

Supports creating groups, scenes, and automations, enabling remote control and scheduled control. Devices can also be controlled via Siri voice commands.



Create Automation



Created Automations

FAQs

This product is designed in compliance with the Matter protocol standard. As the protocol is still in the early stage of industry development and limited by the current version, some functions, performance and network connection stability may be subject to further optimization. Product performance is subject to the current version of the Matter protocol. Our company will continuously upgrade and optimize product functions and performance in line with official updates. Please kindly note.

1. What should I do if the large number of Matter devices managed by the Matter hub gateway causes unstable connections and control?

1.1 It is recommended that each hub gateway add no more than 40 Matter devices.

1.2 It is recommended that the hub gateway remain powered on at all times; otherwise, the device reconnection time will be long.

1.3 Routers of different brands and performances have a certain impact on the number of devices managed by the Matter hub. It is recommended to choose a high-performance router.

2. What to do if the prompt "Device platform addition limit reached" appears when adding a device?

A device can be added to a maximum of 5 platforms (Apple Home accounts for 2 slots). If the limit is exceeded, remove infrequently used or idle Matter platforms, then try adding a new platform again.

3. What should I do if packet loss occurs during group control switching or dimming, and the app status flips back and forth?

It is recommended to keep the number of devices in a group within 10 units.

4. What should I do if the device goes offline and cannot recover after a long period of inactivity?

It is recommended to power the device off and on again to reconnect.

5. What should I do if adding the device still fails after restoring it to factory settings?

Please try powering the device off and on again before adding it.

6. Common reasons for failed device addition caused by router issues.

6.1 The router must have the IPv6 option enabled.

6.2 The router must have the "Brute-force network attack prevention" option disabled.

6.3 Do not connect to the guest Wi-Fi; connect to the main Wi-Fi network instead.

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 our company .

1. Repair or replacement provided is the only remedy for customers. Our company is not liable for any incidental or consequential damage unless it is within the law.

2. Our company has the right to amend or adjust the terms of this warranty. The warranty that issues in writting shall prevail.

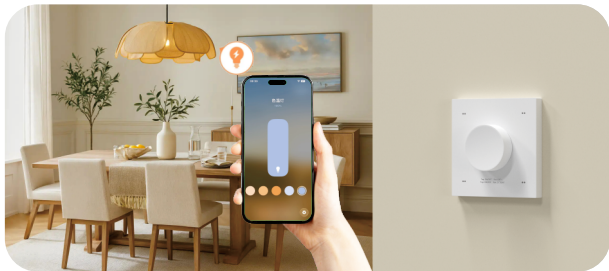
- * This manual is subject to changes without further notice. Product functions depend on the goods. Please feel free to contact our official distributors if you have any question.

Matter-0-10V 旋钮面板

型号: E6A-MA1/E6A-MA2



使用说明书



产品介绍

- 时尚的外观设计配合创新多彩状态指示灯，让科技交互一目了然。
- 本设备为 Matter 转 0-10V 标准协议的产品，支持可调光灯、色温灯，符合Matter over Thread 认证规范。
- 支持主流智能家居平台控制，包括Apple Home、Google Home、Amazon Alexa、SmartThings 等。
- 支持语音控制,包括 Apple Siri、Google Assistant、Amazon Alexa、Samsung Bixby等。
- 支持 Matter 标准 OTA在线固件升级，持续获得最新功能与安全补丁，保障设备长期可用。
- 可通过 NFC Lighting APP 设置场景动作等参数，快速完成灯光场景的配置与调试。
- 支持安装在欧规和国标底盒内，适配多种安装场景。



matter

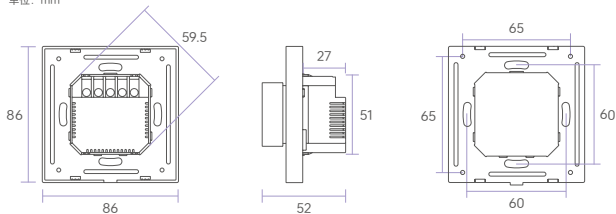


RoHS

NFC

产品尺寸

单位: mm



规格参数

产品型号	E6A-MA1	E6A-MA2
无线类型	Matter over Thread, BLE(配网调试), NFC(0-10V参数设置)	
控制类型	调光	色温
额定参数	100-240V~, 50/60Hz	
输出信号	0-10V	
可搭配的驱动	0-10V调光	0-10V色温
可搭配的APP	NFC Lighting, Apple Home, Smarthings, Google Home, Amazon, Aqara, 涂鸦	
工作温度	-25°C~50°C	
产品尺寸	86×86×52mm (L×W×H)	
包装尺寸	102×102×73mm (L×W×H)	
产品重量	130g	

产品功能说明



正视图



100-240V~ 电源输入 0-10V信号输出

① E6A-MA1 调光面板



场景键：出厂预设4档亮度（按键1为亮度25%、按键2为亮度50%、按键3为亮度75%、按键4为亮度100%），短按触发场景，长按2秒保存当前灯光状态；如需自定义场景动作，可通过NFC Lighting APP进行重新配置。

旋 钮：支持单击(开/关)、旋转(调节亮度)、长按(亮度±)。支持设置高、中、低三档灵敏度调节。

指示灯：调节亮度时显示白色。

恢复出厂：长按旋钮15秒，直至指示灯慢闪后松开，3秒内短按旋钮3次，指示灯快闪，表明恢复出厂设置。

② E6A-MA2 色温面板



场景键：出厂预设4档色温（按键1为2700K、按键2为3500K、按键3为5000K、按键4为6500K），短按触发场景，长按2秒保存当前灯光状态；如需自定义场景动作，可通过NFC Lighting APP进行重新配置。

旋 钮：支持单击(开/关)、双击(切换模式[亮度/色温])、旋转(调节当前模式[亮度/色温])、长按(亮度±)。支持设置高、中、低三档灵敏度调节。

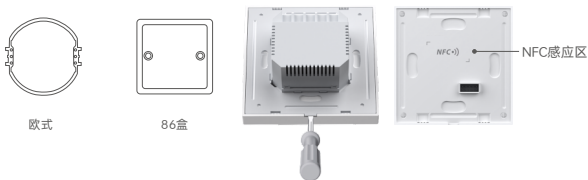
指示灯：调节亮度时显示白色，调节色温时显示黄色。

恢复出厂：长按旋钮15秒，直至指示灯慢闪后松开，3秒内短按旋钮3次，指示灯快闪，表明恢复出厂设置。

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，在塑胶部件找到NFC感应区。

典型底盒如下：



- ② 使用手机打开NFC Lighting APP，在“首页”点击【读/写智能设备】，将手机感应区域靠近旋钮面板NFC感应区，读取旋钮面板参数，根据需求设置参数后(详细见P11)，点击右上角【写入】，再将手机感应区域靠近旋钮面板NFC感应区，即可直接写入旋钮面板。



- ③ 见图1，使用手机NFC读取写入参数后，将火线接入智能开关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)
见图2，用螺丝将底盒固定到墙壁暗盒中，使底盒贴合墙面。

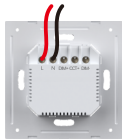


图1



图2

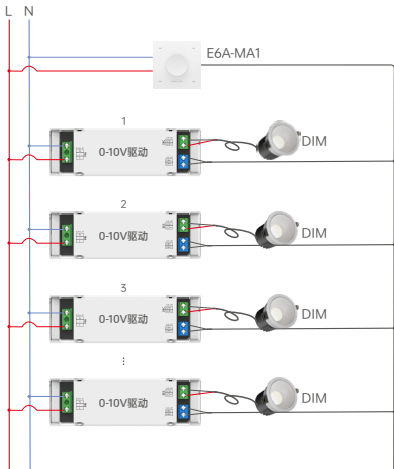
- ④ 倾斜面板并扣合在底盒上，开启电源总闸，按下旋钮面板，可正常控制灯光即说明安装正确。



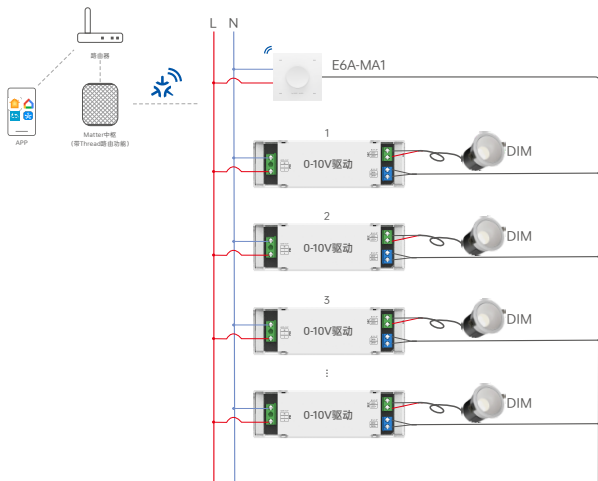
↓ 第一步：向下扣合

第二步：底部扣合

E6A-MA1 0-10V应用示意图

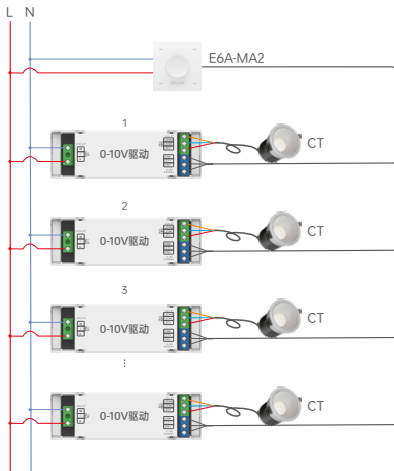


E6A-MA1 Matter应用示意图

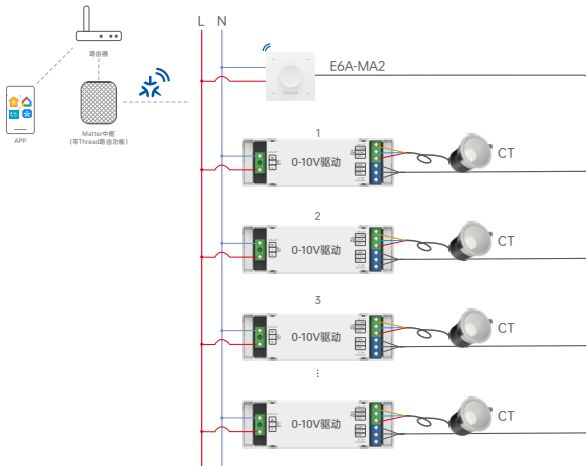


*请尽量避免无线驱动器放置在大面积金属物体旁或在较多金属介质的空间上使用，以免信号受到干扰影响使用。

E6A-MA2 0-10V应用示意图



E6A-MA2 Matter应用示意图



*请尽量避免无线驱动器放置在大量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。

搭配NFC Lighting APP使用

1. 安装软件

通过手机扫描下方二维码，按提示完成APP安装。(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. 读/写旋钮面板

在APP“首页”点击【读/写智能设备】，将手机感应区域靠近旋钮面板NFC标识区(图示P5)，读取旋钮面板参数。

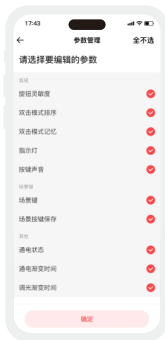


3.参数管理的设置方式

参数管理：点击“参数管理”可编辑旋钮的旋钮灵敏度、双击模式排序、双击模式记忆、指示灯、按键声音、场景键、场景按键保存、通电状态、通电渐变时间、调光渐变时间等更多高级参数。



编辑参数页



参数管理页

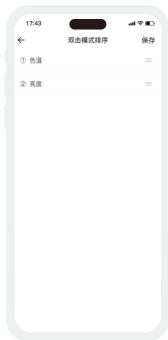
4. 旋钮和场景键的设置方式

旋钮：点击“旋钮灵敏度”可选择低/中/高灵敏度；点击“双击模式排序”调整双击旋钮时，色温/亮度（E6A-MA2）的排序；开启/关闭双击模式记忆，默认关闭；开启/关闭指示灯，默认开启；开启/关闭按键声音，默认开启。

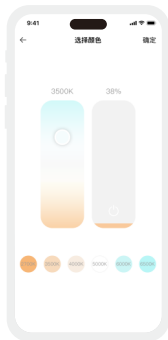
场景键：长按场景键可绑定执行动作；开启/关闭场景按键保存，默认开启。



旋钮设置页



双击模式排序设置页



场景动作设置页

5.其他和恢复出厂的设置方式

通电状态：可选择全亮/不亮/记忆/自定义，默认记忆。

通电渐变时间：断电后上电的渐变时间，默认4.5秒。

调光渐变时间：调亮度(E6A-MA1)/色温(E6A-MA2)的渐变时间，默认1秒。

恢复出厂：点击“恢复出厂设置”按钮，页面参数将恢复为出厂默认值；再点击“写入”按钮将参数写入设备，重新上电后即完成恢复。



通电状态



通电渐变时间



恢复出厂

添加到Matter平台说明

1.本设备支持各大主流智能家居平台控制，包括Apple Home、Amazon Alexa、Google Home、SmartThings等。

2.要连接Matter over Thread设备，需要准备各大平台支持Thread边界路由功能的Matter中枢，型号可以查看下图。

 Apple Home	 Google Home	 Amazon Alexa	 SmartThings
Apple HomePod (second-gen)	Google Nest Hub (2nd Gen)	Amazon Echo (4th-gen)	Aeotec SmartThings Smart Home Hub
Apple HomePod Mini	Google Nest Hub Max	Amazon Echo Hub	Samsung SmartThings Station
Apple TV 4K (2nd gen)	Google Nest Wifi Pro	Amazon Echo Show 8 (3rd-gen)	Samsung SmartThings Hub Dongle
Apple TV 4K (3rd gen,128 GB)	Google TV Streamer (4K)	Amazon Eero 6, Pro 6, 6 Plus, Max 7 etc.	Samsung SmartThings Hub v3

3.本说明书以Apple Home为例，请先准备一台装有最新版本固件的 iPhone (iOS 16.2 或更高版本) 或 iPad (iPadOS 16.2 或更高版本)，以及一台装有最新版本固件的 Apple HomePod mini。然后将 iPhone 或 iPad 连接到您的家庭 WLAN 网络，运行 Apple Home 应用程序并按照 Apple 的指示设置 HomePod mini。

*如苹果手机型号是iphone 15及以上，则无需Matter中枢，可直接添加。

添加步骤（以苹果家庭为例）

1. 添加配件

打开Apple Home app，并点击“添加或扫描配件”，通过扫描设备上的二维码贴纸，将设备添加到Apple Home，如下图所示。



添加或扫描配件



扫描配件二维码



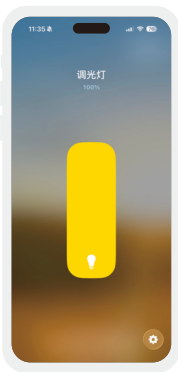
连接配件

2. 控制设备

设备成功添加到Apple Home后，点击设备图标进行开/关；点击设备卡片进入亮度、色温控制界面。



首页设备



调光灯控制页



色温灯控制页

3. 高级功能

支持创建组、场景、自动化、进行远程控制和定时控制，也可以通过Siri语音指令控制设备。



创建自动化



已创建自动化

常见问题

本产品遵循Matter协议标准设计，因该协议尚处行业发展初期，受当前版本限制，部分功能、性能及网络连接稳定性存在优化空间。

产品表现以当前Matter协议版本为准，我司将随官方版本持续升级并优化产品功能与性能，敬请知悉。

1.Matter中枢网关管理的Matter数量多，导致连接不稳定，控制不稳定怎么办？

- 1.1 建议每台中枢网关添加Matter设备不要超过40台；
- 1.2 建议中枢网关保持常通电，否则设备重连时间较长；
- 1.3 不同品牌，不同性能的路由器对Matter中枢管理的设备数量有一定的影响，建议选择性能强大的路由器。

2.添加设备时提示“设备加入平台数量超限”怎么办？

设备最多可被5个平台添加（Apple Home占2个）。若超过了数量限制，可找到设备不常用或已闲置的Matter平台并删除后，再重新尝试添加新平台。

3.群组控制开关，调光出现丢包，App出现状态来回跳动清空怎么办？

建议群组数量控制在10台以内。

4.长时间不控制设备，设备掉线，无法恢复怎么办？

建议设备断上电重新连接。

5.设备恢复出厂设置后，依旧添加设备失败怎么办？

建议断上电后再添加设备。

6.常见的路由器原因导致添加设备失败的原因。

- 6.1 路由器需要开启IPV6选项；
- 6.2 路由器需要关闭“防暴力破解网络”选项；
- 6.3 不要连接“访客模式”下的WiFi，需要连接主WiFi。

注意事项

- 请由具有专业资格的人员进行调试安装。
- 我司产品（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我司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；
 - 无我司签订的合同或发票凭证。
1. 修理或更换是我司对客户的最唯一补救措施。我司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. 我司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。