

3合1 色温&亮度 LED 控制器 (Zigbee 3.0 + 2.4GHz)

型号: LC3-ZR

产品特点

- 色温, 亮度可调
- 支持生物节律, 音乐律动
- 支持PUSH调光
- 4096级 平滑调光, 最低亮度0.1%, 调光范围0.1%-100%
- 1个控制器最多可配12个遥控器 (控制距离30m)
- 自动转发: 自动将遥控信号转发到另一控制器, 使遥控距离无限远
- 支持勿扰模式设置, 适合常停电的地区, 以节约用电
- 支持“涂鸦智能”APP控制 (需要Zigbee 3.0网关)
- 支持Alexa, Google Assistant, Yandex Alice, 天猫精灵, 百度小度, 小米小爱 (需要Zigbee 3.0网关)



产品参数

产品名称: 3合1 色温&亮度 LED 控制器

型号: LC3-ZR

输入电压: DC12-24V

输出电流: 单色输出模式: 最大10A

色温输出模式: 最大6A

输出类型: 恒压输出

通讯协议: Zigbee 3.0 + 2.4GHz RF

遥控距离: Zigbee(空旷距离): 100米/ RF: 30米

IP等级: IP20

工作温度: -10~40°C

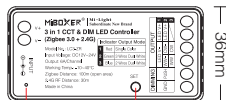
EMC标准 (EMC): ETSI EN 301 489-1 V2.2.3
ETSI EN 301 489-3 V2.1.1

安全标准(LVD): EN 61347-1: 2015+A1: 2021
EN 61347-2-11: 2001+A1:2019

无线电设备(RED): ETSI EN 300 440 V2.2.1

认证: CE, EMC, LVD, RED

质保: 5年

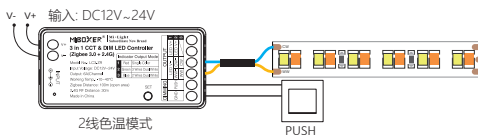
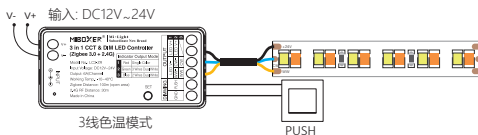
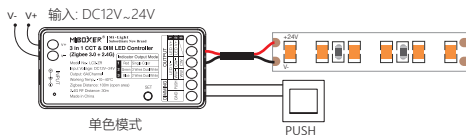


指示灯

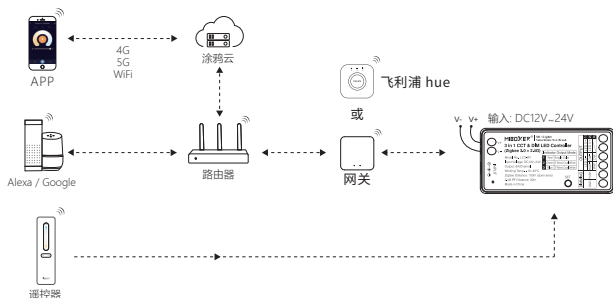
SET键



连接示意图



应用示意图



PUSH开关调光

短按“PUSH开关”

开启或关闭灯光。

长按“PUSH开关”

无级调节灯光亮度。

设置输出模式

根据连接的灯具设置对应输出模式，

设置方法：连续短按“SET”键切换（注意：3秒内如无操作会自动退出）。

输出模式表（指示灯颜色对应输出模式）

指示灯颜色	红光	绿光	蓝光
输出	单色模式	3线色温模式	2线色温模式

兼容以下遥控器(需另行购买)



FUT094



FUT006



FUT007



FUT087/ FUT087-B



S1-B / S1-W
S1-G



B1/ B1-B/ T1



B2/ T2



K1/ K1-B



K2/ K2-B



K3



C1



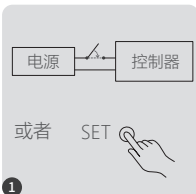
C3



Y2

2.4G RF遥控器控制说明

对码说明



1 断电，10秒后再上电
或短按“SET”键1次



2 在3秒内短按“ON”键3
次。

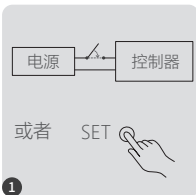


3 灯光慢闪 3 次，表示对
码成功。



如果灯光无慢闪，则对码失败，请重新执行上述步骤。
(注意：已对码的灯具不能再次对码)。

清码说明



1 断电，10秒后再上电
或短按“SET”键1次



2 在3秒内短按“ON”键5
次。



3 灯光快闪 10 次，表示
清码成功。



如果灯光无快闪，则清码失败，请重新执行上述步骤。
(注意：没有对码的灯具，不需要清码)。

自动转发

遥控器信号自动转发

控制器接收到的遥控信号会转发给30m内的另一个控制器，使控制距离无限远。



勿扰模式开启和关闭 (默认开启)

开启“勿扰模式”（适用经常停电的地区，以节约能源）

开启勿扰模式：

3秒内短按“OFF”键3次，再短按“ON”键3次，灯光快闪4次表示开启成功。

注意：灯具在断电后重新上电时，其状态（开灯或关灯）与断电前保持一致。

关闭勿扰模式

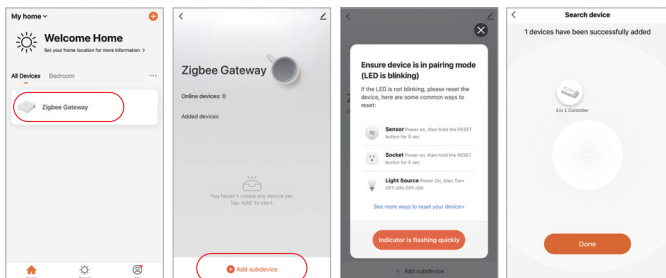
3秒内短按“ON”键3次，再短按“OFF”键3次，灯光慢闪4次表示关闭成功。

注意：灯具在断电后重新上电时，其状态默认开灯。

手机App控制说明

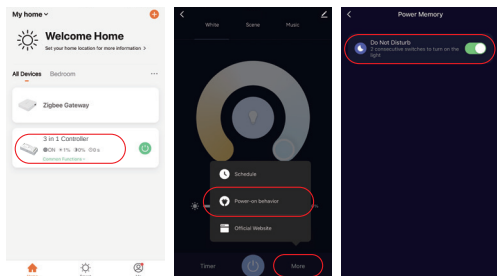
首先需要有Zigbee 3.0网关,并且已添加到“涂鸦智能”App (App添加网关方法详见网关说明书)

- 1) . 接通电源
- 2) . 进入配网状态 (注: 出厂默认处于配网状态)
方法一: 连续 (关灯——开灯) 6次或者6次以上, 灯光处于呼吸状态。
方法二: 长按“LINK”键, 直到指示灯闪烁。
- 3) . 打开“涂鸦智能”App 在首页点击已经添加的Zigbee网关, 再点击“Add subdevice”
- 4) . 点击“Indicator is flashing quickly”。
- 5) . 添加成功后, 即可通过App调光, 群组控制等。



App开启或关闭勿扰模式 (默认开启)

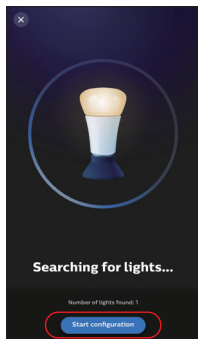
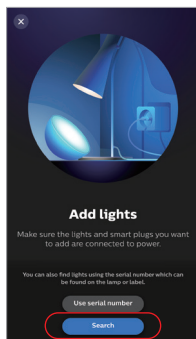
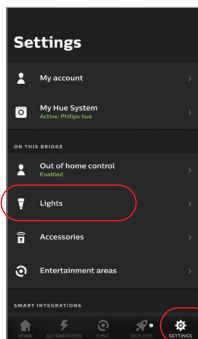
点击要设置的灯具或者群组——点击“More”——点击“Power-on behavior”——即可开启或关闭。



飞利浦Hue控制说明

首先需要有“ Philips Hue ”, 并且已添加到“ Philips Hue ”App

- 1) . 接通电源
- 2) . 进入配网状态 (注: 出厂默认处于配网状态)
方法一: 连续 (关灯——开灯) 6次或者6次以上, 灯光处于呼吸状态。
方法二: 长按“SET”键, 直到指示灯闪烁。
- 3) . 打开“ Philips Hue ” App 在首页点击“ SETTINGS ”再点击“Lights”
- 4) . 点击 右上角的“+”。
- 5) . 点击“ Search ”。
- 6) . 稍等片刻即可成功找到设备。 点击 “ Start configuration ” 按App提示完成配置即可。



Alexa语音控制说明

1). Alexa 控制 (音响自带Zigbee 3.0 协议)

如果你的 Amazon ECHO 内置有 Zigbee 3.0协议，无需网关可以直接连接。以下这些型号已内置 Zigbee 3.0协议：

Amazon ECHO Plus (2nd Gen), ECHO (4th Gen), ECHO Studio, ECHO Show (2. Gen)

- 1) . 接通电源
- 2) . 进入配网状态 (注：出厂默认处于配网状态)

方法一：连续（关灯——开灯）6次或者6次以上，灯光处于呼吸状态。

方法二：长按“SET”键，直到指示灯闪烁。

- 3) . 对Amazon ECHO说“Alexa, Discover devices”

稍等片刻找到设备，即可语音控制

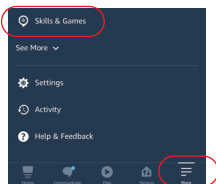
“Alexa, Discover devices”



2). Alexa 控制 (音响无Zigbee 3.0协议)

如果你的 Amazon ECHO 没有内置Zigbee 3.0协议，请将设备添加到MiBoxer Zigbee 3.0网关，再执行以下操作：

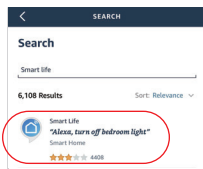
- 1) . 打开Alexa App
- 2) . 点击右下角的“More”
- 3) . 点击“Skills & Games”



- 4) . 点击右上角的“Q”
- 5) . 输入 “Smart life”并搜索



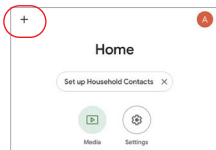
- 6) . 点击 “Smart Life”技能，按指引完成配置，即可语音控制。



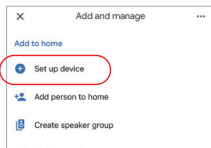
Google Home语音控制说明

请将设备添加到MiBoxer Zigbee 3.0网关（详见第6页），再执行以下操作：

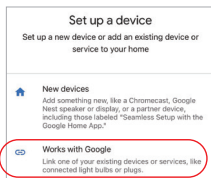
- 1) . 打开Google Home App
- 2) . 点击左上角的“+”



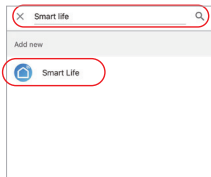
- 3) . 点击“Set up device”



- 4) . 点击“Works with Google”



- 5) . 点击右上角的“Q”
- 6) . 输入“Smart life”并搜索
- 7) . 点击“Smart Life”技能，按指引完成配置，即可语音控制。



注意事项

1. 安装设备时，请关闭电源以确保安全。
2. 请检查输入电压是否与设备一致。
3. 非专业用户不可直接拆卸设备，否则可能会损坏设备。
4. 请勿在附近有大范围金属区域或强电磁波的区域使用设备，否则会严重影响遥控距离。



中国制造

3 in 1 CCT& DIM LED Controller (Zigbee 3.0 + 2.4G)

Model: LC3-ZR

Features

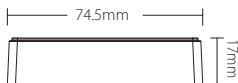
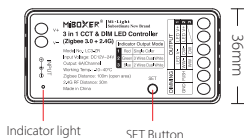
- Color temperature, brightness dimmable
- Biological rhythm and music rhythm
- Push dimming
- 4096 level smooth dimming, mini brightness 0.1%, dimming range 0.1%-100%
- One controller support max 12pcs remote (control distance 30m)
- Auto transmitting: transmit signal to another one automatically and expand unlimited control distance
- Support DND mode and usually used for power failure area to save power
- Support "TUYA SMART" APP control (Need Zigbee 3.0 gateway)
- Support Alexa, Google Assistant, Yandex Alice (Need Zigbee 3.0 gateway)



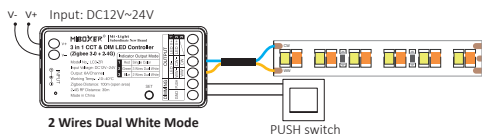
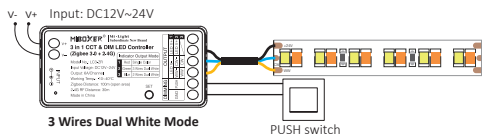
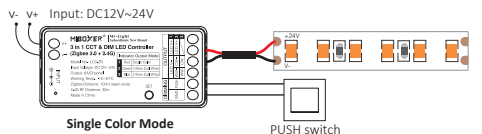
Parameters

Product Name:	3 in 1 CCT&DIM LED Controller
Model No.:	LC3-ZR
Input Voltage:	DC12~48V
Output Current:	Single Color Mode: Max10A CCT Mode: Max 6A
Output Type:	Constant Voltage
Protocol:	Zigbee 3.0 + 2.4GHz RF
Control Distance:	Zigbee(Open Area): 100M/ RF: 30M
IP Rate:	IP20

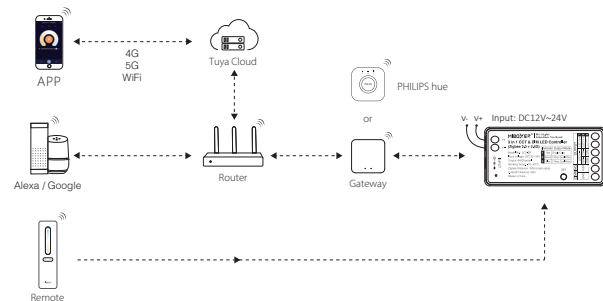
Working Temp.:	-10~40°C
EMC Standard (EMC):	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-3 V2.1.1
Safety Standard (LVD) :	EN 61347-1: 2015+A1:2021 EN 61347-2-11: 2001+A1:2019
Radio Equipment (RED):	ETSI EN 300 440 V2.2.1
Certification:	CE, EMC, LVD, RED
Warranty:	5 Years



Connection Diagram



Application Diagram



PUSH Switch Dimming

Short press the "PUSH switch"

Turn lights on or off.

Long press the "PUSH switch"

Adjust the light brightness level.

Set up output mode

Set up correct output mode based on the feature of lights

Setting method: Press "SET" button continuously to switch output mode (attention: it will log out without operation within 3 seconds)

Output mode sheet (confirm output mode based on color of indicator)

Indicator color	Red Light	Green Light	Blue Light
Output	Single Color Mode	3 Wires Dual White Mode	2 Wires Dual White Mode

Compatible with these 2.4G RF remote controls (Purchased separately)



FUT094



FUT006



FUT007



FUT087/ FUT087-B



S1-B / S1-W
S1-G



B1/ B1-B/ T1



B2/ T2



K1/ K1-B



K2/ K2-B



K3



C1



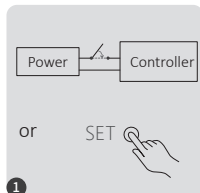
C3



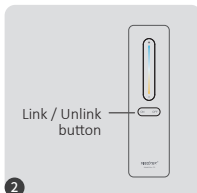
Y2

2.4G RF Remote control instruction

Linking Code Instructions



Power off 10 seconds and power on again or short press " SET " one time



Short press " ON " button 3 times within 3 seconds.

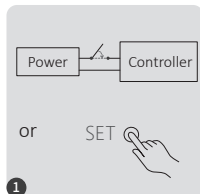


Lights blink 3 times slowly means linking is done successfully.

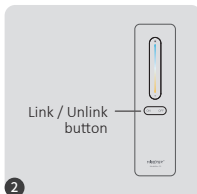


Linking failed if light is not blinking slowly, Please follow above steps again.
(Note: Light that have linked can't link again)

Unlinking Code Instructions



Power off 10 seconds and power on again or short press " SET " one time



Short press " ON " button 5 times within 3 seconds.



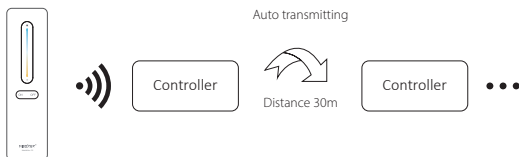
Lights blink 10 times quickly means unlinking is done successfully.



Unlinking failed if light is not blinking quickly, Please follow above steps again.
(Note: Light haven't linked that don't need to unlink)

Transmitting function instruction

One Controller can transmit the signals from the remote control to another Controller within 30m, as long as there is a LED Driver within 30m, the remote control distance can be limitless.



Attention: All "LED Driver" must be linked with one remote.

Turn Do Not Disturb mode on and off (ON by default)

Turn on "Do Not Disturb" (applicable to areas with frequent power outages to save energy)

Turn on Do Not Disturb mode:

Short press the "OFF" button 3 times within 3 seconds, and then short press the "ON" button 3 times. The light flashes 4 times to indicate success.

Note: When the lamp is powered on again after a power outage, its status (lights on or off) will remain the same as before the power outage.

Turn off Do Not Disturb mode:

Short press the "ON" button 3 times within 3 seconds, and then short press the "OFF" button 3 times. The light flashes 4 times slowly to indicate successful shutdown.

Note: When the lamp is powered on again after a power outage, its status will be on by default.

Smartphone APP control instruction

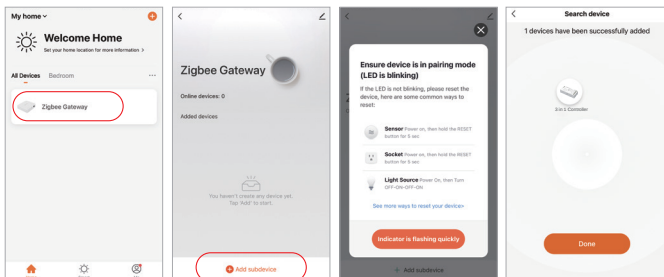
Added Zigbee 3.0 gateway into "Tuya Smart" App (please review instruction of Zigbee 3.0 gateway)

- 1). Connect with power supply.
- 2). Pairing network (**attention: factory default is pairing network**).

Way one: Turn off and turn on light 6 times or over 6 times continuously, the light is in breathing status.

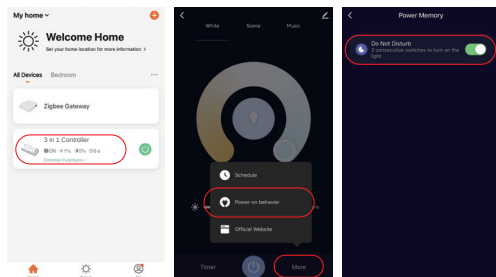
Way two: Long press " LINK " key until indicator light flashing.

- 3). Open "Tuya Smart" APP to click Zigbee gateway, then click "Add sub device".
- 4). Click "Indicator is flashing quickly".
- 5). Support APP dimming or group control and etc once added successfully.



App turn on and off "Do Not Disturb" mode (default activated)

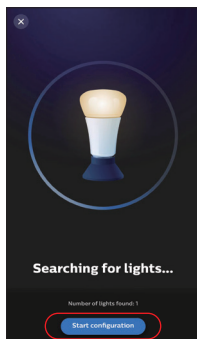
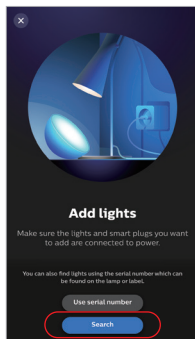
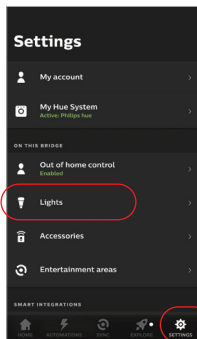
Click the light which need to be set up or group control --- click "More" --- click "Power-on behavior" --- turn on or off



Philips Hue control instruction

Added "Philips Hue" into APP

- 1). Connect with power supply
- 2). Pairing network (**attention: factory default is pairing network**)
Way one: Turn off and turn on light 6 times or over 6 times continuously, the light is in breathing status.
Way two: Long press "SET" key until indicator light flashing.
- 3). Open "Philips Hue" App to click "SETTINGS" and click "Lights"
- 4). Click "+" on the top of right corner
- 5). Click "Search"
- 6). Click "Start configuration", Follow the app instruction to complete configuration



Alexa voice control instruction

1). Alexa control (Audio support Zigbee 3.0 protocol)

You can connect directly if your Amazon ECHO already is built-in zigbee 3.0 protocol, following model with zigbee 3.0 protocol:

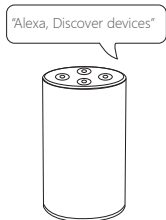
Amazon ECHO Plus (2nd Gen), ECHO (4th Gen), ECHO Studio, ECHO Show (2. Gen)

- 1). Connect with power supply
- 2). Pairing network (**attention: factory default is pairing network**)

Way one: Turn off and turn on light 6 times or over 6 times continuously, the light is in breathing status.

Way two: Long press " SET " key until indicator light flashing.

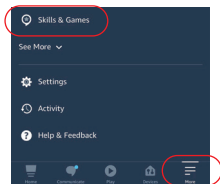
- 3). Say to Amazon ECHO "Alexa, Discover devices"
Wait for a while to discover device, Voice control is activated



2). Alexa control (Audio don't support Zigbee 3.0 protocol)

Please add device into Miboxer Zigbee 3.0 gateway if your Alexa don't support zigbee 3.0 protocol , then start following steps

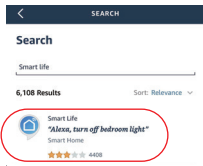
- 1). Open Alexa App
- 2). Click "More" on the bottom of right corner
- 3). Click "Skills & Games"



- 4). Click "Q" on the top of right corner
- 5). Type into "Smart life" and search



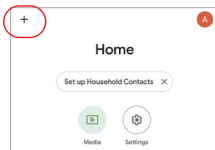
- 6). Click "Smart Life" skill, follow instruction to finish configuration and start voice control



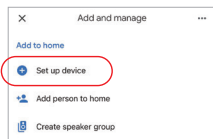
Google Home voice control instruction

Please add device into MiBoxer Zigbee 3.0 gateway ([check details in page 6](#)) and start following steps

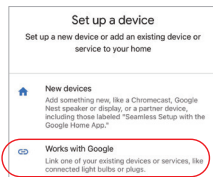
- 1). Open Google Home App
- 2). Click "+" on the top of left corner



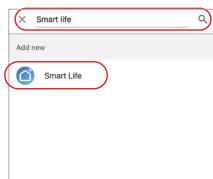
- 3). Click "Set up device"



- 4). Click "Works with Google"



- 5). Click "Q" on the top of right corner
- 6). Type into "Smart life" and search
- 7). Click "Smart Life" skill, follow instruction to finish configuration and start voice control



Attention

1. Please turn off power supply before installation.
2. Please ensure input voltage to be same as requirements from device.
3. Don't disassemble device if you are not expert, otherwise it will damage it.
4. Please do not use the light in the place with widely range metal area or strong electromagnetic wave nearby, otherwise, the remote distance will be seriously affected.



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