



2.4GHz CCT Knob Dimmer Panel

User Manual

Wall Panel · 86 Box · No Gateway Required



SOLUXLED

Factory-direct 2.4GHz Wireless LED Lighting Control

www.soluxled.com

1. Product Overview

The 2.4GHz CCT Knob Dimmer Panel is a wall-mounted smart lighting controller designed for standard 86mm wall boxes. It delivers wireless brightness adjustment (1–100%), tunable color temperature (2700K–6500K), and three programmable memory scenes — all without a gateway or app.

Key Features:

- Wireless 2.4GHz RF control — no gateway, no extra wiring required
- Smooth 1–100% brightness dimming
- Tunable CCT from 2700K (warm white) to 6500K (cool daylight)
- 3 programmable memory scenes (M1 / M2 / M3) — one-tap recall
- Standard 86mm wall box installation
- PC / tempered glass faceplate
- **Available in two finishes: Gray (space gray) and Gold (champagne gold)**

2. Panel Layout

All four control buttons are backlit and remain illuminated during operation. The central knob serves as both a status display and a rotary controller.

Button / Element	Function
Bri	Switch to brightness mode. The knob displays the current brightness percentage.
CCT	Switch to color temperature mode. The knob displays the current CCT value in Kelvin.
Memory	Enter memory scene programming mode. Short-press to cycle M1 → M2 → M3. Long-press 1 second to save.
On/Off	Toggle power on/off. During the first 5 seconds after power-on, long-press 1 second to trigger pairing mode.
Knob (rotate)	Rotate to adjust the current parameter — brightness in Bri mode, CCT in CCT mode, or the selected memory scene's value.

3. Knob Display & Indicators

The center of the knob contains a digital display and LED indicators showing the current operating state:

Indicator	Meaning
Large number	Shows the current brightness value (e.g. "50 %") or CCT value (e.g. "6500K").
Bri / CCT dot	A dot next to "Bri" or "CCT" indicates which parameter the knob is currently controlling.
M1 / M2 / M3	When lit, indicates the currently selected memory scene. When all are off, the panel is in normal operation mode.

4. Basic Operation

4.1 Power On / Off

Short-press the On/Off button to toggle the light on or off. When the light is on, the knob display shows the current brightness or CCT value. When off, the display shows "Off" and the knob is inactive.

4.2 Adjusting Brightness

Press the Bri button to enter brightness mode. Rotate the knob clockwise to increase brightness (1–100%) and counter-clockwise to decrease. The display updates in real time.

4.3 Adjusting Color Temperature (CCT)

Press the CCT button to enter CCT mode. Rotate the knob to adjust the color temperature from 2700K (warm amber) to 6500K (cool daylight). The display updates in real time.

5. Memory Scene Programming

The panel stores three programmable scenes (M1, M2, M3), each remembering a specific brightness and CCT combination. Once saved, a scene can be recalled

with a single press.

5.1 Entering Memory Mode

Short-press the Memory button. The Memory LED lights up, and the panel enters M1 scene editing mode. The knob display shows M1's currently stored brightness value. Press Memory again to cycle through M1 → M2 → M3 → M1.

5.2 Adjusting a Scene

While in any memory scene (M1/M2/M3):

- Press Bri to adjust that scene's brightness value. The Bri indicator lights on the knob.
- Press CCT to adjust that scene's color temperature. The CCT indicator lights on the knob.
- Rotate the knob to change the selected parameter in real time.
- You may switch between Bri and CCT freely — both values are remembered together.

5.3 Saving a Scene

After adjusting the brightness and/or CCT for the current scene, long-press the Memory button for 1 second to save. The Memory LED turns off, and the panel returns to normal brightness mode, displaying the newly saved brightness value.

Important notes:

- The Memory LED stays lit while you are in memory mode. You cannot exit memory mode without saving (except by turning the power off).
- After saving, the panel always returns to the Bri (brightness) mode — regardless of whether you were adjusting Bri or CCT before saving.
- If you turn the power off while in memory mode, changes are NOT saved.

5.4 Factory Default Scenes

Scene	M1	M2	M3
Brightness	100%	50%	30%
CCT	6500K	4500K	2700K

6. Pairing

To pair the panel with a fixture or driver:

- Power on the panel.
- Within 5 seconds of power-on, long-press the On/Off button for 1 second.
- The paired light(s) will flash to confirm successful pairing.
- If pairing fails or the time window expires, the light will not flash. Repeat from step 1.

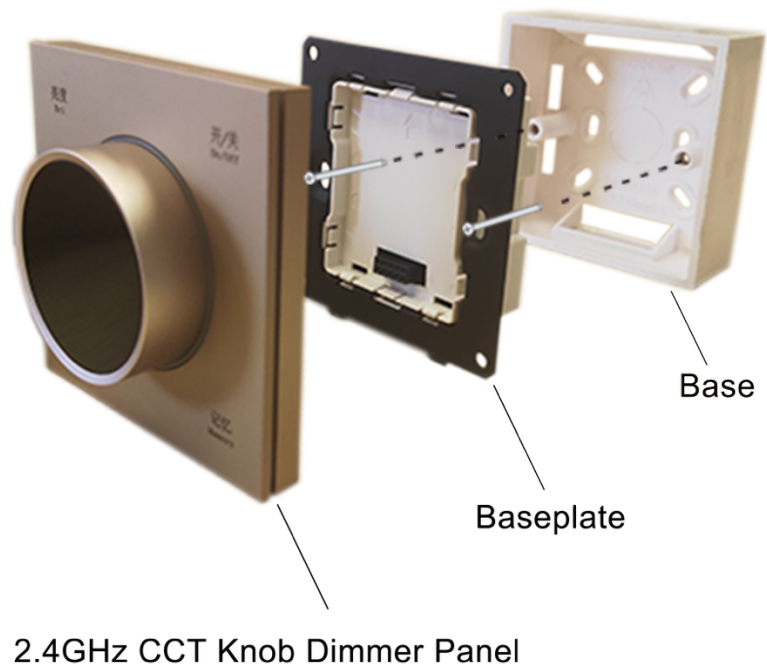
7. Specifications

Parameter	Value
Installation box	Standard 86mm wall box
Panel dimensions (W × H × D)	86 × 86 × 53 mm
— Faceplate thickness	11 mm
— Back body depth (incl. terminals)	27 mm
— Total depth (incl. knob protrusion)	53 mm
Knob diameter	Ø 50 mm
Knob height (protrusion from faceplate)	15 mm
Mounting screws (2 × oval, symmetric)	8 mm long × 4 mm wide, 60 mm center-to-center
— Screw position	At faceplate / terminal-block boundary, left-right symmetric
Input voltage	AC 100–260V
Max load power (with light connected)	<500W
Load power (no light / dedicated circuit)	Unlimited
Standby power	<0.5W
Terminals (back)	L / N = AC input, Lout = light output
Control protocol	Proprietary 2.4GHz RF
Frequency band	2.4GHz ISM band

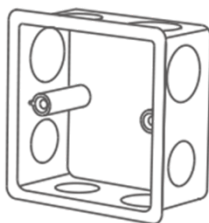
Control range (open area)	Up to ~30m, wall-dependent
Dimming range	1%–100%
CCT range	2700K–6500K
Memory scenes	3 presets (M1 / M2 / M3)
Available finishes	Gray (space gray) · Gold (champagne gold)
Panel material	PC / tempered glass front, per finish option

Note: For detailed wiring diagrams and installation instructions, please refer to the installation guide or contact SOLUXLED support.

8. Mounting & Dismounting Instructions

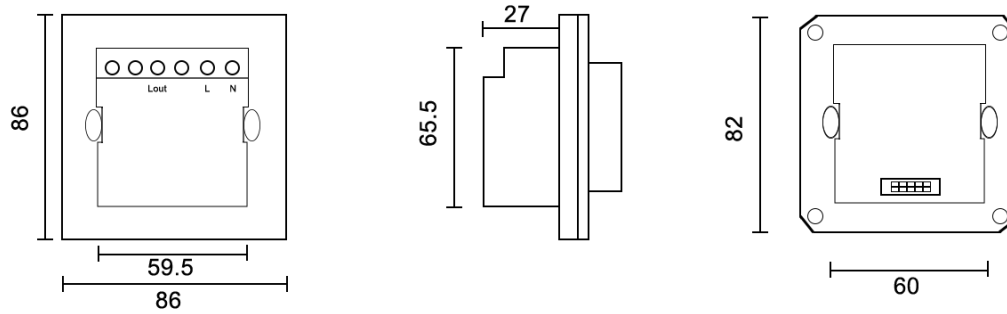


Typical base are as follow:

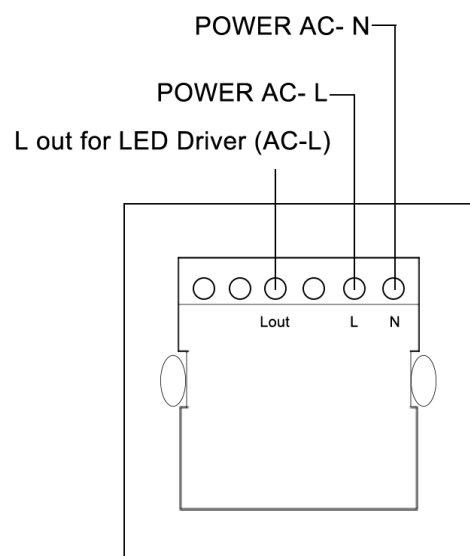


9. Product Size

Unit: mm



Terminals





2.4GHz CCT Knob Dimmer Panel

用户手册

墙面面板 · 86 盒 · 无网关



SOLUXLED

工厂直销 2.4GHz 无线 LED 照明控制系统

www.soluxled.com

1. 产品概述

本产品为墙面安装式智能灯光控制器, 适配标准 86 盒。支持无线亮度调节 (1–100%)、可调色温 (2700K–6500K) 以及三个可编程记忆场景——无需网关或手机 App。

产品亮点:

- 无线 2.4GHz RF 控制 —— 无需网关, 无额外布线
- 平滑 1–100% 亮度调光
- 可调色温, 从 2700K 暖白光到 6500K 冷白光
- 3 个可编程记忆场景 (M1 / M2 / M3) —— 一键调用
- 标准 86 盒墙面安装
- PC / 钢化玻璃面板
- 可选颜色: 灰色 / 金色 (两种)

2. 面板布局

四个控制按键均带有背光, 操作时始终亮起。中央旋钮同时具备状态显示和旋转控制功能。

按键 / 元素	功能
Bri	切换至亮度模式。旋钮显示当前亮度百分比。
CCT	切换至色温模式。旋钮显示当前色温值 (K)。

Memory	进入记忆场景编程模式。短按循环 M1 → M2 → M3。长按 1 秒保存。
On/Off	开关灯。开机后 5 秒内长按 1 秒触发对码模式。
旋钮（旋转）	旋转调整当前参数：Bri 模式下调亮度，CCT 模式下调色温，或记忆场景中调整对应值。

3. 旋钮显示与指示灯

旋钮中心包含数字显示和 LED 指示灯，实时反映当前操作状态：

指示器	含义
大数字	显示当前亮度值（如 "50 %"）或色温值（如 "6500K"）。
Bri / CCT 指示点	"Bri" 或 "CCT" 旁的亮点表示旋钮当前控制的参数。
M1 / M2 / M3	亮起时表示当前选中的记忆场景。全灭时表示正常操作模式。

4. 基本操作

4.1 开关灯

短按 On/Off 按键切换灯光开关。开灯时，旋钮显示当前亮度或色温值。关灯时，显示 "Off" 且旋钮禁用。

4.2 调整亮度

按 Bri 按键进入亮度模式。顺时针旋转旋钮增加亮度 (1–100%)，逆时针减小。显示实时更新。

4.3 调整色温 (CCT)

按 CCT 按键进入色温模式。旋转旋钮调整色温从 2700K (暖琥珀色) 至 6500K (冷白光)。显示实时更新。

5. 记忆场景编程

面板内置三个可编程场景 (M1、M2、M3)，每个场景记忆特定的亮度和色温组合。保存后可一键调用。

5.1 进入记忆模式

短按 Memory 按键。Memory LED 亮起，面板进入 M1 场景编辑模式，旋钮显示 M1 当前存储的亮度值。再次短按 Memory 循环 M1 → M2 → M3 → M1。

5.2 调整场景参数

在任意记忆场景 (M1/M2/M3) 中：

- 按 Bri 调整该场景的亮度值，Bri 指示点亮起
- 按 CCT 调整该场景的色温值，CCT 指示点亮起
- 旋转旋钮实时改变当前参数

- 可自由在 Bri 和 CCT 之间切换 —— 两个值一并记忆

5.3 保存场景

调整完当前场景的亮度和/或色温后，长按 Memory 按键 1 秒保存。Memory LED 灭灯，面板返回正常亮度模式，显示刚保存的亮度值。

注意：

- 在记忆模式中，Memory LED 始终亮起。除非保存或关机，否则无法退出。
- 保存后，无论此前在调整 Bri 还是 CCT，面板总是返回 Bri（亮度）模式。
- 在记忆模式中关机，更改不会保存。

5.4 出厂预设场景

场景	M1	M2	M3
亮度	100%	50%	30%
色温	6500K	4500K	2700K

6. 对码

将面板与灯具或驱动器配对：

- 面板开机。
- 开机后 5 秒内长按 On/Off 按键 1 秒。

- 配对成功时，灯具闪烁确认。
- 若配对失败或超时，灯具不闪烁，请重复上述步骤。

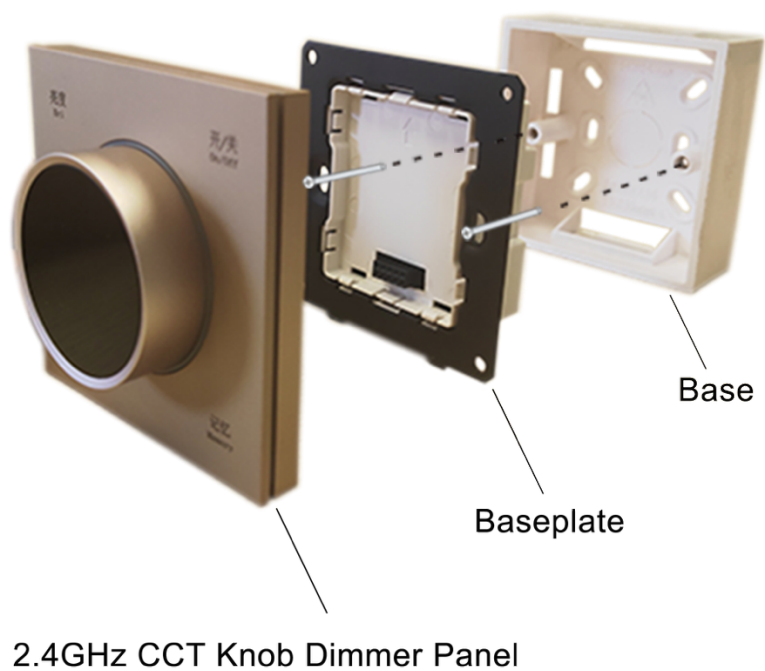
7. 规格参数

参数	值
安装盒	标准 86 盒
面板尺寸 (宽 × 高 × 深)	86 × 86 × 53 mm
— 面板厚度	11 mm
— 背体深度 (含终端)	27 mm
— 总深度 (含旋钮突出)	53 mm
旋钮直径	Ø 50 mm
旋钮高度 (突出面板)	15 mm
安装螺未 (2 × 椭圆, 左右对称)	长 8 mm × 宽 4 mm, 中心间距 60 mm
— 螺未位置	面板 / 终端块交界处, 左右对称
输入电压	AC 100–260V
负载功率 (接灯具时)	<500W
负载功率 (专用电路, 不接灯)	无限

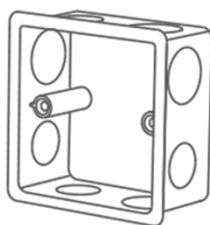
待机功耗	<0.5W
背部接线终端	L/N = AC 输入, Lout = 输出至灯具
控制协议	2.4GHz 私有 RF
频段	2.4GHz ISM
控制距离 (开阔)	最远 ~30m, 视墙体而定
调光范围	1%–100%
色温范围	2700K–6500K
记忆场景	3 个预设 (M1 / M2 / M3)
可选颜色	灰色 (太空灰) / 金色 (香槟金)
面板材质	PC / 钢化玻璃, 视外观方案而定

注: 详细的接线图和安装指南请参阅安装说明书或联系 SOLUXLED 技术支持。

8. 安装与拆卸说明

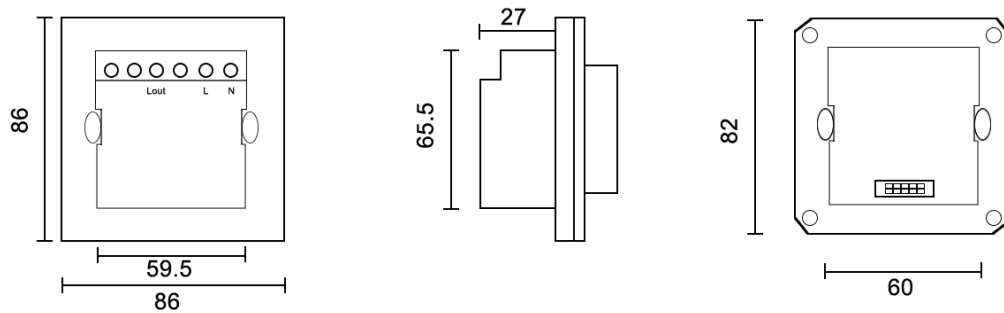


标准 86 底盒样式:



9. 产品尺寸

Unit: mm



接线端子:

