



Aqara Dual Color Temperature Driver T2 Introduction

continuous connection

Aqara Tool App Overview

The Dual Color Temperature Driver T2 is positioned as an iterative product of the Dual Color Temperature Driver T1 Pro, optimizing costs, and splitting the original 20W of T1 Pro into two SKUs of 15W and 24W, offering broader coverage and more precise compatibility. Simultaneously, upgrades to dimming depth and algorithms have been implemented, resulting in finer dimming and adding a richer, more user-friendly software/interaction experience. New features include reverse connection of cool and warm white lights, configurable color temperature range, and dimming curve settings for turning lights on and off.



Rich Scenarios

The Dual Color Temperature Driver T2 is designed for use with dual-color temperature non-smart light fixtures, providing high-performance and high-experience driving support. Downlights, as the most used fixtures in current lighting trends, can be applied in all residential and commercial settings, such as living rooms, bedrooms, hallways, and exhibition halls. Each space can accommodate dozens of these lights.



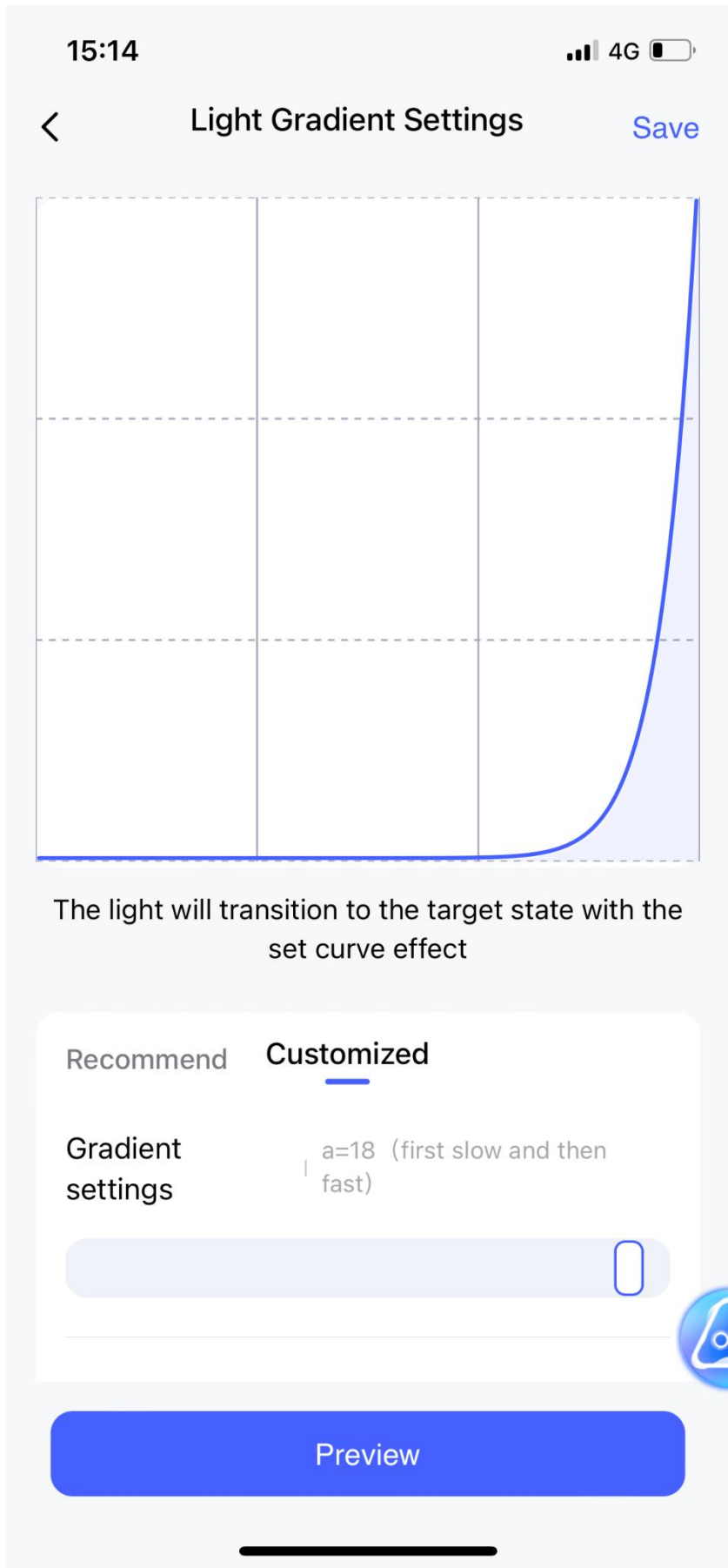
Product Specification

Product Name	Dual Color Temperature Driver T2 (15W)	Dual Color Temperature Driver T2 (24W)
Product Model	SSWHLQD11LM	SSWHLQD12LM
Rated Input	100-240V~50/60Hz 0.17A	100-240V~50/60Hz 0.17A
Rated Output	Max.50VDC	24VDC, 0-5A
Output Power	Max.15W	Max.24W
Power Factor (PF)	0.9	
Protocol	Zigbee	
Operation Temperature	-20℃~50℃	
Ambient Temperature Case Temperature (ta, tc)	50℃, 75℃	
Product Dimension	170×40×30mm	170×40×30mm
Execution Standard	GB/T 17743-2021、GB19510.1-2009、GB 19501.14-2009	
What’s in the box	Dual Color Temperature Driver T2 ×1、User Manual×1、Accessory kit×1	

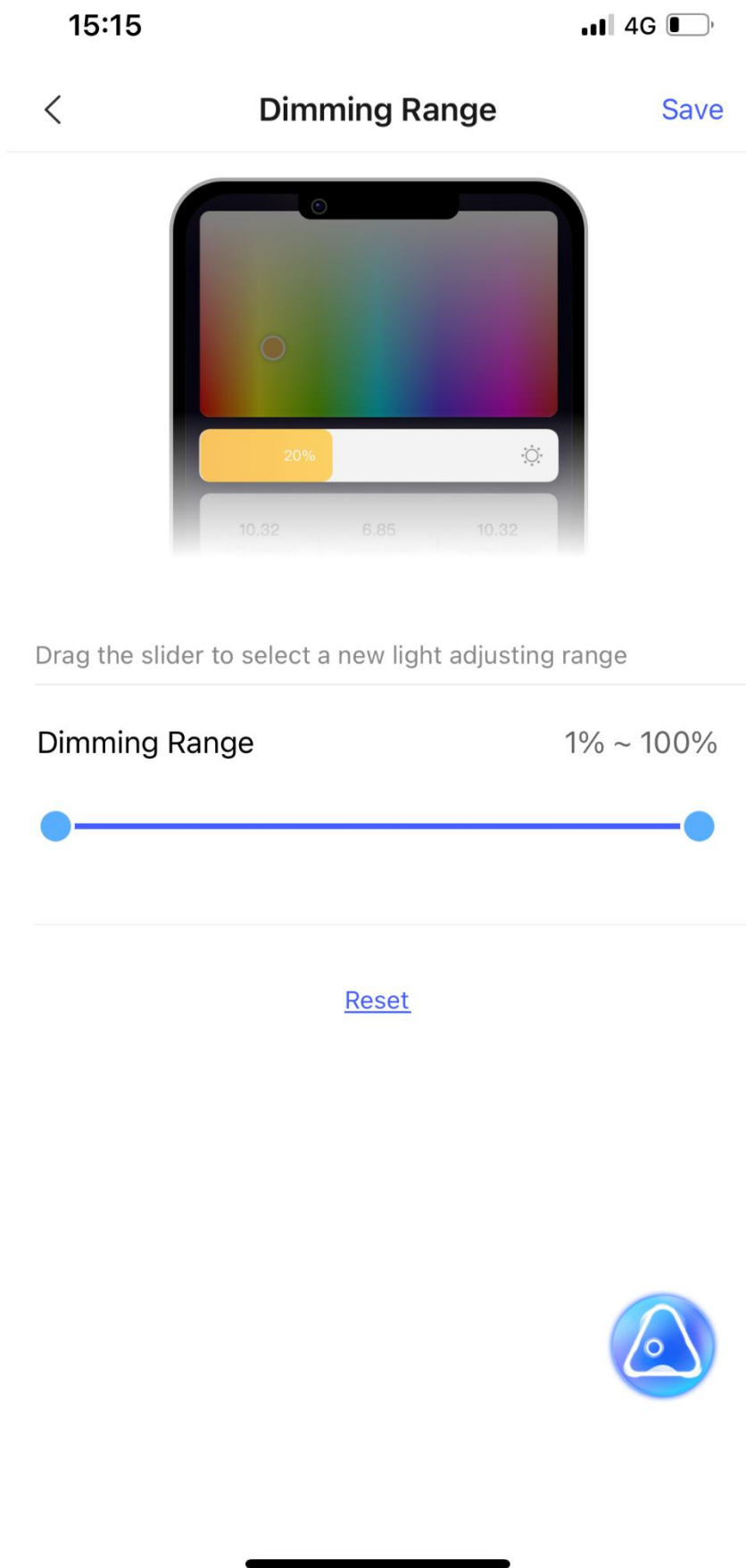
New Features

A richer, more user-friendly software/interaction experience.

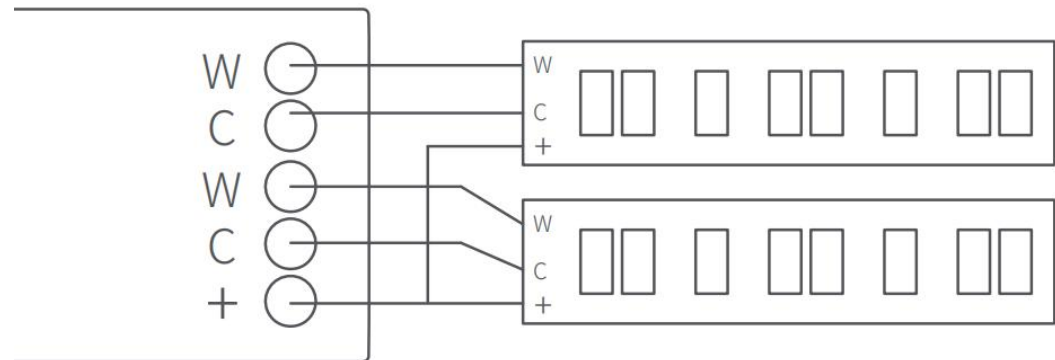
Configurable fading/transitional curves for turning lights on/off and adjusting brightness.



Configurable dimming range



Forward and reverse connection



Lighting Gradient Setting

In the diagram, the vertical axis represents brightness, and the horizontal axis represents time. The variable curve indicates the effect of light transition when the light is turned on, which can be adjusted using the slider below.

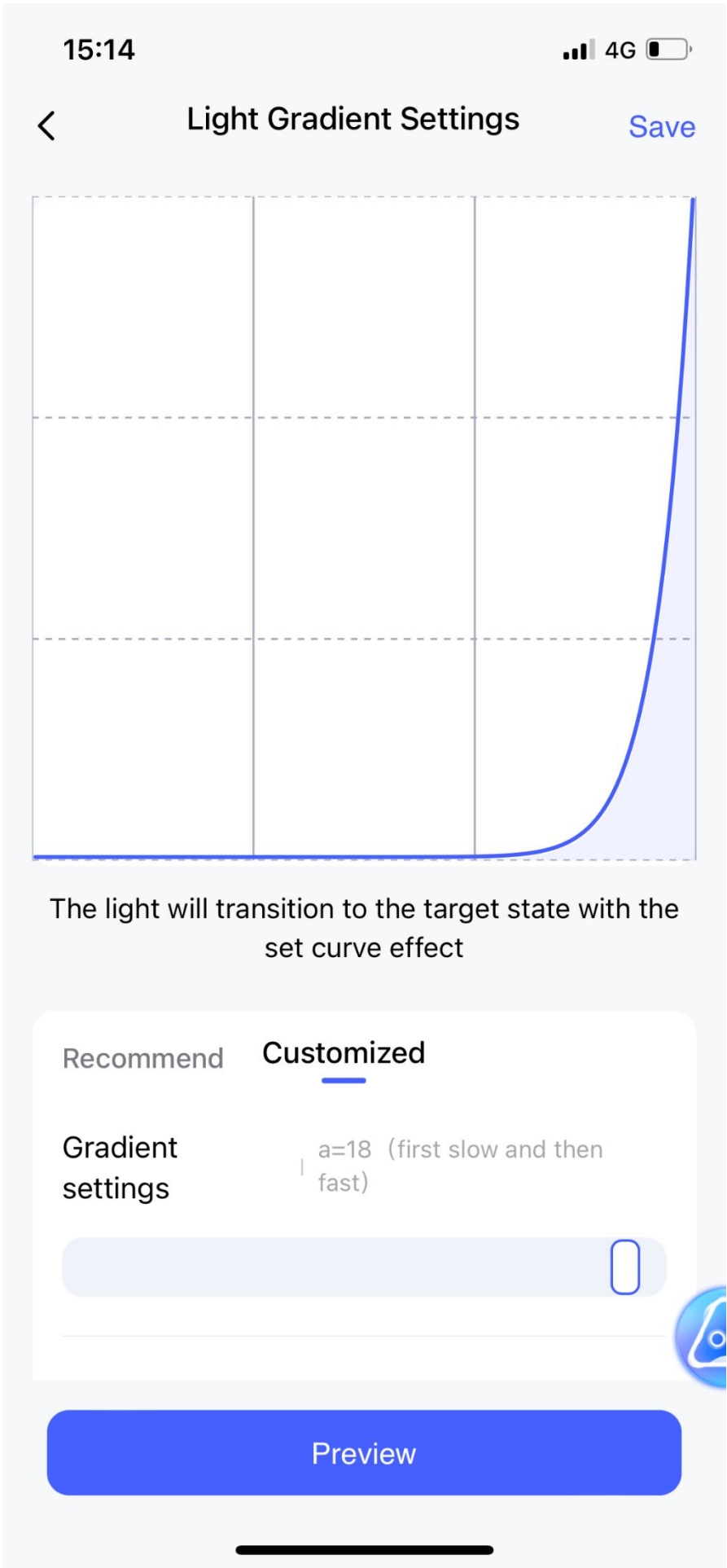
When set to position 0, the transition curve is linear, as shown in Figure 2, meaning the light brightens uniformly over time; when the slider is moved to the left, the transition curve changes to that shown in Figure 1, resulting in a quick start where the initial brightness is higher and then gradually increases; when the slider is moved to the right, the transition curve becomes as shown in Figure 3, resulting in a slow start where the initial brightness is lower and then quickly brightens.



1



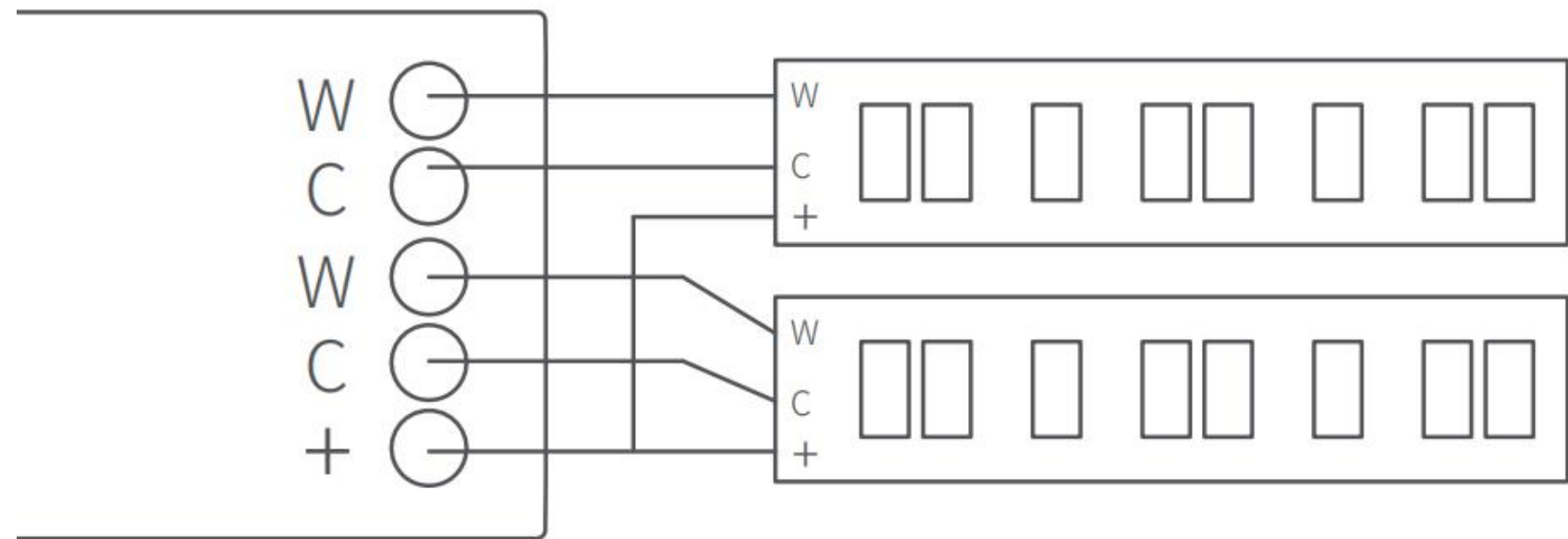
2



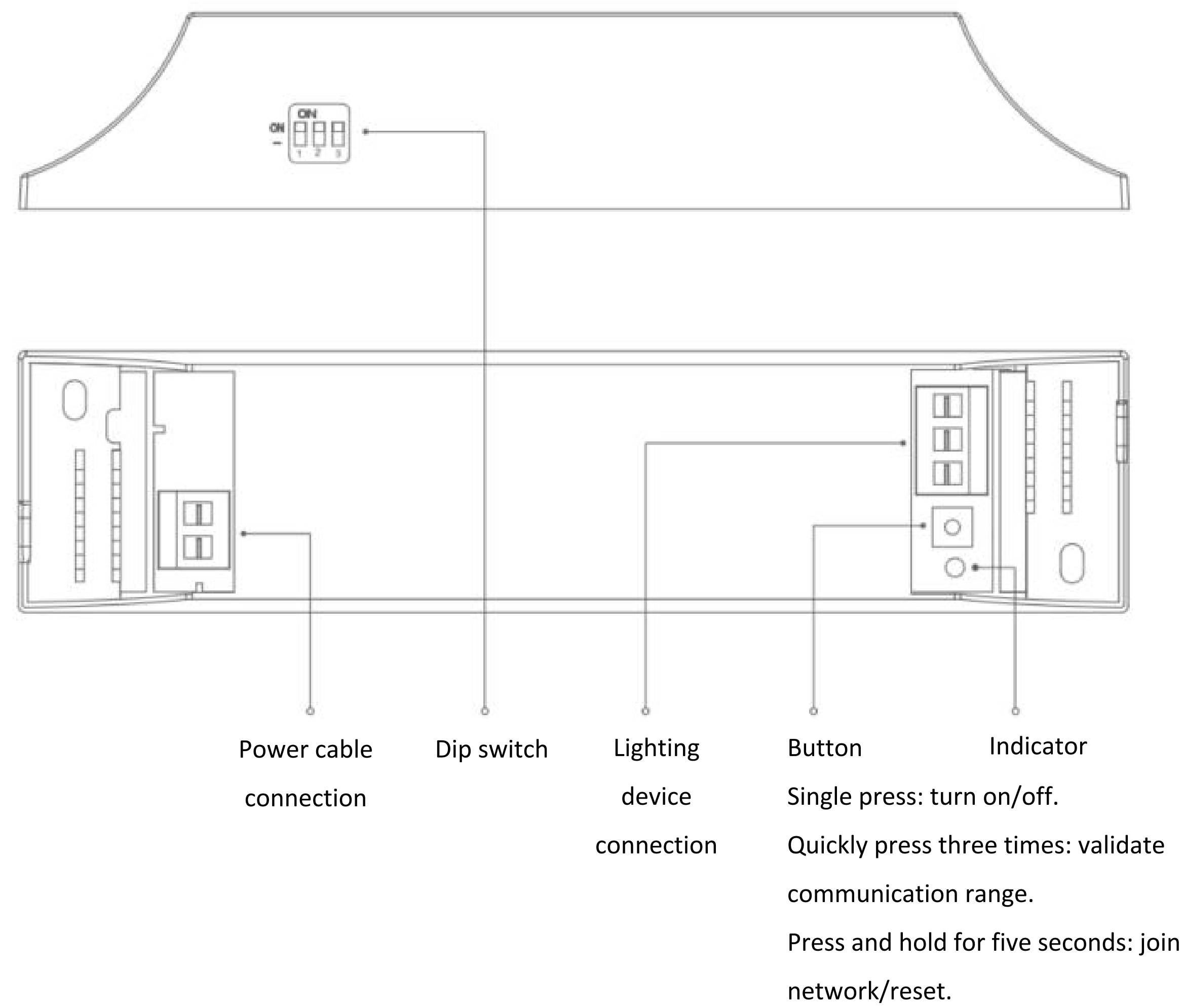
3

Connection Method

During the installation of a dual color temperature light fixture, there are three wires that must be correctly connected to the driver: the positive, warm yellow light, and cool white light, as shown in Figure 1. If the connections for the warm yellow and cool white lights are reversed, you will find that the actual effect when adjusting the color temperature is opposite to the setting. In this case, there is no need to readjust the wiring; simply select 'Reverse Connection' in the additional settings for wiring method, as shown in Figure 2.



Installation Description

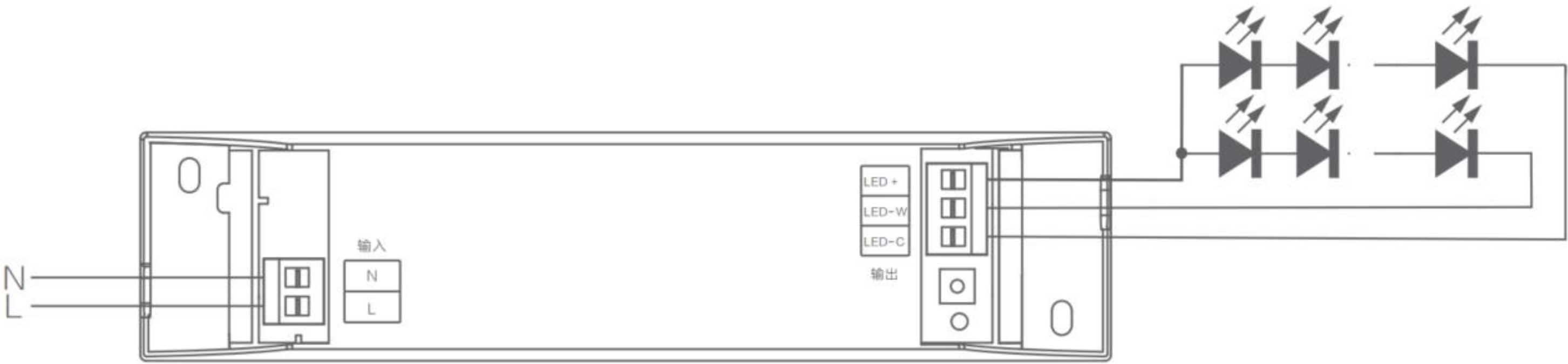


Installation Description

1. Select the current setting that matches the light fixture.

DIP开关 Dip switch	输出电流 Output Current	输出电压 Output Voltage	输出功率 Output Power	ON —
	400mA	15-42V	6-17W	
	450mA	15-42V	7-19W	
	500mA	15-42V	8-21W	
	550mA	15-42V	8-23W	
	600mA	15-40V	9-24W	
	650mA	15-37V	10-24W	

2. According to the diagram, complete the wiring by connecting the neutral and live wires of the power supply to the N and L terminals of the module, respectively. Connect the power wires of the light fixture to the LED+, LED-W, and LED-C terminals.



3. Check the wiring and confirm that the connections are correct, then tighten the end caps and connect the power supply.

Caution



Warning:

To prevent accidents that could threaten personal safety, such as damage to ceiling lights, falling, electric shock, or fire, please strictly follow the instructions for installation and use.

Do not modify or replace parts and accessories on your own.

Before installation, be sure to cut off the power supply to prevent electric shock. Ensure that the connected load is within the maximum output power range of the product. If the total power of the load, such as a light strip, exceeds the maximum output power of the product, the light strip may not reach maximum brightness or may not function properly.

1. The installation of this product involves high voltage and should be performed by professionals in accordance with electrical standards and the product manual;
2. This product is for indoor use only, do not use in humid environments or outdoors;
3. Be aware of moisture protection, do not splash water or other liquids on this product;
4. Do not place this product near heat sources;
5. This product generates heat during operation, do not touch the product during or immediately after use;
6. Do not attempt to repair this product yourself; maintenance should be conducted by authorized professionals.

FAQ

1. Can the Dual Color Temperature Driver T2 only connect to dual color temperature light fixtures?

Yes, this driver functions similarly to the T1 Pro, and is used to connect to dual color temperature light fixtures.

2. Does the driver have a power-off memory function?

By default, when power is restored after an outage, the lights will automatically turn on. You can configure it in the APP to enable power-off memory, and the device will remember the state before the power was cut off.

3. Does this driver have local buttons and indicator lights?

Yes, the local button and indicator lights are located at the power output end. Pressing the local button can control on/off, quickly pressing it three times validates effective communication distance, and holding it for 5 seconds resets the device.

4. How to reset after joining the network?

Hold the local button for 5 seconds or cycle the power on and off more than five times (the last time must power on); if the load light breathes twice and then stays on, it indicates that the reset is complete.

5. What happens if the current value of the connected load light fixture exceeds the maximum output current of the driver?

When the driver reaches the maximum output current, it will limit the current, and the load light fixture will not reach its maximum brightness and can only be used within the output range of the driver.

6. What happens if the current value of the connected load light fixture exceeds the maximum output current of the driver?

If the dip switch selected current setting is higher than the rated input current of the load light fixture, prolonged use may shorten the lifespan of the light fixture or directly damage it.

7. Which third-party voice platforms are supported?

HomeKit

THANK YOU