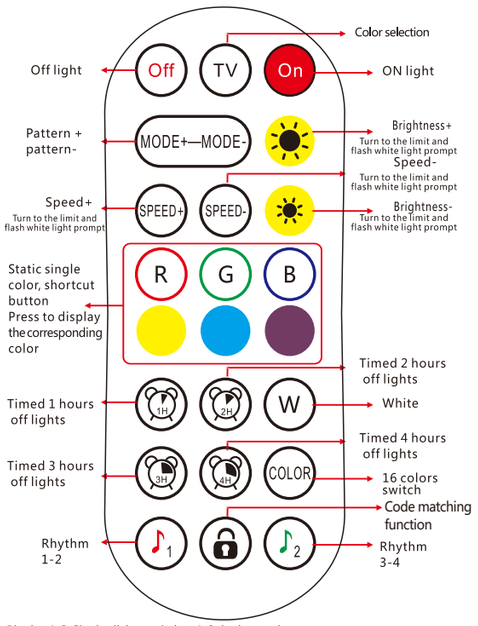
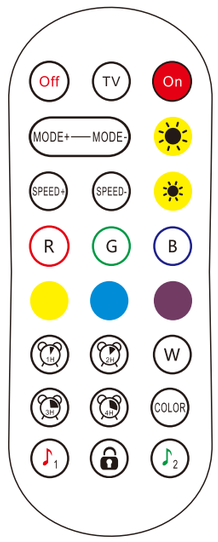


Rhythm 1-2: Single click to switch to 1-2 rhythm mode
Rhythm 3-4: Click to cycle through the 3-4 rhythm mode
Code matching: Press and hold for 5 seconds after 20 seconds of power on, and the flashing prompt will complete the code matching
Decoding: Press and hold the flashing prompt for 5 seconds after 20 seconds of power on, and the decoding is completed

LED Backlight for TV



Chapter 1 Product Description

1.3 Product Introduction

The product series mainly adopts a self-developed color sensing screen synchronization solution, suitable for esports and home TV scenes. It not only achieves screen and light "in sync", but also supports sound and light "intimate interaction". The TV Light color sensing light strip, as the main device, can link with sub devices to achieve full house lighting illusion linkage, supporting color sensing screen synchronizer linkage, music rhythm linkage, and other scene linkage. This will mean that when we are playing games or watching movies, indoor lighting will create a more immersive environmental atmosphere for us. In addition, this series of products can not only be controlled locally through mobile apps, but also support remote control for local control.

1.4 Product Architecture Diagram

The product series shown in Figure 1 below consists of four parts: the main device (TV light strip), the sub device (linked light bulb), the app, and the Bluetooth remote control. After the main device activates linkage, it sends linkage data through Bluetooth. After receiving the linkage data, the sub devices maintain the same lighting effect as the main device. At the same time, sub devices can be grouped according to actual application scenarios, with different lighting effects between different groups, achieving dreamy linkage of lighting effects. The main device and sub devices can be controlled separately through the APP and remote control.

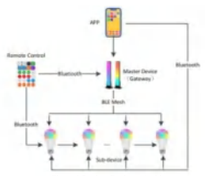


Figure 1 Product Business Architecture

Chapter 2 Instructions For Use

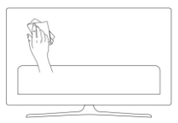
2.1 Equipment Installation Instructions

2.1.2 Quick Installation

1. Preparation before installation

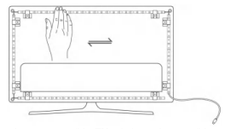
a. Check whether the light strip is complete, connect the light strip controller and the light strip, and power on to check whether the light strip can light up normally;

b. Wipe the back of the TV/computer to keep the surface clean and free of moisture.



2. Installation steps

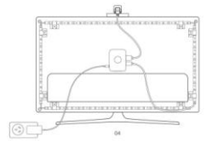
a. Affix the light strips to the back of the TV /computer, press them tightly, and then fix the light strips with other fixings such as clips;



b. Place the color sensor on the top center of the TV , aiming at the area of the screen you want to color;

c. Insert the light strip, power adapter and color sensor cable into the control box;

d. Fix the control box in a suitable position near the TV ;



e. Power up the strip lights and try connecting them with the uLamp app. See 3.3 APP Instructions for Use.

2.2 Instructions for the use of the main device buttons

Short press on/off, no long press function.

2.3 APP Instructions

2.3.1 Download Method

1. Scan the QR code to download

2. App Store download or App Store download

- iOS users can search for "uLamp" on the App Store to download
- Android users abroad can search for "uLamp" on Google Play to download; Android domestic users can search for "uLamp" in the app store to download

2.2.2 Software Introduction

uLamp App is an independently developed intelligent electrical lighting equipment management software. Through this software, users can achieve remote control, device linkage, and device status analysis of intelligent electrical lighting products, breaking through spatial limitations, greatly improving user experience, and enjoying a truly intelligent life!

2.3.3 Function Usage

1. Device Addition

Open the uLamp App, the home page of the App without adding a device is shown in Figure 2 below.

After the device is powered on, click the "Add Device buttonor"+" button at the bottom of the home page toenter the deviceadding page, and select the correspondingTV Light to add, as shown in Figure 3

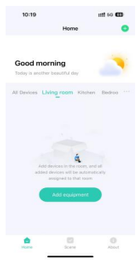


Figure 2 App home page

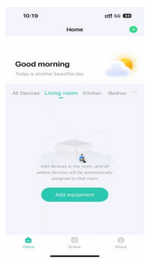


Figure 3 Device Add Page

Figure 4 shows the successful device addition page. After the deviceis added successfully, the device name can be modified. After saving,it will enter the first page of the device details page by default. Thedevice details page can control the main device switch, turn on/o fflinkage, switch scenes, etc., as shown in Figure 5

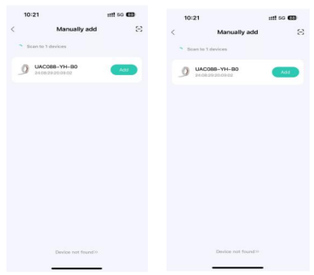


Figure 4 Device addition success page

Figure 5 Main device details page home page

2. Device Details Page

①Main equipment TV Light switch button;

②Click to modify the main device name;

③Scene mode, corresponding to the 4 scene categories of ⑥, there are 12 scene modes in total, namely: Iceland Blue, Glacier Express, Cloud Sea Color Scenery, Game, Holiday, Work, Christmas, Valentine's Day, Halloween, Summer Pastoral, Sea dreams, love and dreams;

④Click to enter the segmented smearing color page, which supports global smearing, segmented smearing, erasing, as well as colored cards and recommended combination colors;

⑤ Color sensor work on/off button;

⑦DIY scene mode, click the "+" button to enter the DIY page, support settings such as full segment/segment, effect, color, brightness, speed, etc.;

⑧ Scene mode/color adjustment. Corresponding to ③, ④, ⑥;

⑨Music rhythm mode, supports 6 kinds of music rhythm modes, namely: rock, jazz, classical, rolling, energy, spectrum;

⑩ Linkage. Click to enter the sub-device grouping page, a maximum of 7 groups are supported, all groups can be enabled/disabled linkage at the same time, or a single group can be enabled/disabled linkage.

⑪ Settings. Supports the settings of countdown, number of lamp beads and line sequence

3. Linkage Function

On the group page, click the "+" button to create a group. Currently, a maximum of 7 groups are supported. Creating a group supports modifying the group name. After the group is created, it directly enters the group and displays the list of sub-devices that can be added, as shown in Figure 6.

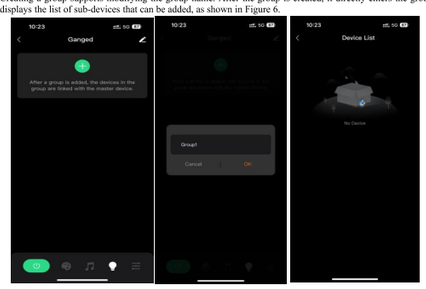


Figure 6 App sub-device grouping page

After the sub-device is bound to the group, return to the linkage page, the created group and the added device will be displayed on the page one by one, as shown in Figure 7.

① Globally enable/disable linkage, which is valid for all sub-devices that have been bound to the group;

②The linkage of a single group is turned on/off.

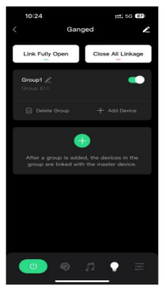


Figure 7 Linkage function page

Chapter 3 Frequently Asked Questions and Answers

1. How to factory reset (reset) the main and sub-devices?

The main device and the sub-device are restored to factory settings for 3 times of continuous power-on and power-off

2. How to pair the remote control with the main device and sub-device?

Within 30s after the main device is powered on, press and hold the remote control button ④ on/off to pair, the pairing is successful, the green light flashes 3 times; the main device does not need to be powered on again to unbind, and the pair is unpaired by long pressing the remote control button ③ TV, and the red light flashes 1 Second-rate. When the sub-device is not paired with the remote control, all keys are controllable. If you want to control it in groups, within 30s of power-on, press and hold the group button to bind the group, and the green light flashes twice; within 30s of power-on, long-press the sub-device Group key to unbind this group, the red light flashes 2 times.

3. What is the sub-device grouping rule?

One group can be bound to multiple sub-devices, and one sub-device can only be bound to one group.

4. When the sub-device is in the linked state, can the App and the remote control deliver static/dynamic lighting effects?

A sub-device in the linked state can interrupt the linkage function of the sub-device when the app or remote control sends static/dynamic lighting effects. Brightness/speed adjustment is not controllable.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure statement

The device has been evaluatec to meel general RF exposure requirement. The device can be used in porlable exposure condition without restriction.