

LumaLink-DC100/300W

DC Controller

WIFI/DMX/Remote Control

4 wires
Instruction



Before using this product, please kindly read this instruction carefully!
Please note: This instruction is just suitable for our SWIN products. 1

Instruction



LumaLink-DC 100/300W controller is a versatile and intelligent lighting controller, designed for a wide range of applications including residential and commercial settings.

It supports multiple control modes, such as remote control, APP control, and DMX professional lighting control, catering to the diverse needs of users. With simple and intuitive operations, users can easily adjust the color, brightness, and mode of the lights. The controller also features a grouping function that allows for zonal management of the lighting. Additionally, it includes a timer function, enabling users to set automatic on/off times for the lights, achieving intelligent lighting management.

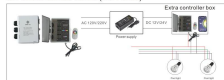
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1. Specification

Input voltage	AC 100 ~265V	AC 100 ~265 V
Power	100 W	300 W
Output	DC 12-24V	DC 12-24V
Control Color	RGB	RGB
signal transmission distance	100 m	100 m
Control method	Touch sensor panel RF remote WIFI luya, DMX512	Touch sensor panel RF remote WIFI luya, DMX512
Brightness adjustment	Grade 20	Grade 20
Timer adjustment	1H/Grade total 15 Hours	1H/Grade total 15 Hours
working temperature	-10°C~50°C	-10°C~50°C
IP	IP65	IP65
Install	Wall-mounted	Wall-mounted
Size	220*170*110mm	260*160*110mm
Wiring Connection	4 circuit	4 circuit
Zone No	2 zones	2 zones

2. Wiring Diagram

WIFI/DMX/Remote Control (DC 4 wires)



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3. Four Control Ways

1. Remote Control



ON: Short press to turn on. Long press at other times to select all groups.
Off Button: Short press to turn off.
Color Ring: Touch to adjust the light color.
Brightness +/- Buttons: Adjust the brightness of the lights. Effective only for the controller's built-in modes; not applicable for DMX or TuYa-controlled lights.
Group 1 Button: Short press to select Group 1.
Group 2 Button: Short press to select Group 2.
Mode Button: Short press to switch modes. Long press to exit or enter DMX mode.
Timer Button: Short press to set the timer on/off.
Note: In DMX mode, only a long press on the mode button to exit DMX operation is effective. All other remote control actions are invalid.

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2) Remote Control Pairing and Clearing

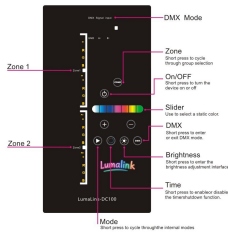
1. The controller is set to universal pairing mode by default at the factory, allowing any remote control to operate it.
2. After the controller is paired with a remote control, only the paired remote control can be used.
3. When the controller clears all paired remote controls, it will return to the universal pairing mode, and any remote control can operate it again.
4. **Pairing Method:** Within 6 seconds of powering on the controller, long-press the power button on the remote control. Three slow flashes of the indicator light indicate a successful pairing.
5. **Clearing Method:** Within 6 seconds of powering on the controller, long-press the power button on the remote control. Six quick flashes of the indicator light indicate a successful clearing.

2. Onboard Button Usage Instructions

1) Zone Button:

Short press to cycle through group selection in the order of Group 1 → Group 2 → All Groups → Group 1, and so on.
When Group 1 is selected, the Group 1 indicator light will illuminate.
When Group 2 is selected, the Group 2 indicator light will illuminate.
When All Groups are selected, both Group 1 and Group 2 indicator lights will illuminate simultaneously.

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2) ON/OFF Button:

Short press to turn the device on or off.
3) **Slider:** Short press to select a static color. The display will show the corresponding slider value (CXXX), ranging from 000 to 359.0 represents pure red, 120 represents pure green, and 240 represents pure blue. If the display shows (C000), it indicates that the current mode is static and the color is red.

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4) Mode Button:
Short press to cycle through the internal modes (H01 ~ H05, a total of 5 built-in modes).
If a dynamic mode is selected (e.g., H-02), you can adjust the speed using the UP/DOWN buttons.
The display will not show the speed parameter but will still show the selected mode.
You can determine if the speed adjustment is effective by observing the speed of the dynamic mode.
Speed levels range from 1 (slowest) to 5 (fastest).
If the display shows (H-02), it indicates that the selected mode is dynamic (e.g., red-green-blue flashing).

5) Time Button:
Short press to enable or disable the timer shutdown function. This function is ineffective in DMX mode.
The display will show E-FF when the timer function is disabled, and E-0X when it is enabled.
When the timer function is enabled, you can adjust the timer duration using the UP/DOWN buttons, with settings ranging from 1 to 6 hours.

Display shows (E-FF): Timer function is disabled.
Display shows (E-04): Timer function is enabled with a duration of 4 hours.

3. DMX Mode:

Short press to enter or exit DMX mode. When in DMX mode, the display will show XXXX, where XXX represents the DMX address (ranging from 1 to 512).
Short press UP/DOWN to increment or decrement the DMX address by 1.
Long press UP/DOWN to quickly adjust the DMX address.
The DMX indicator light will flash when in DMX mode: slow flashing indicates no DMX signal, while fast flashing indicates the presence of a DMX signal.

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If the display shows (A001), it indicates that the current mode is DMX and the DMX address is 1.

In DMX mode, one controller occupies 8 addresses. For example, if the DMX address is 1:
Channels 1, 2, and 3 control the color of Group 1.
Channel 4 controls the brightness of Group 1.
Channels 5, 6, and 7 control the color of Group 2.
Channel 8 controls the brightness of Group 2.

4. TUYA WIFI Control (Optional)



Scan the QR code or search 'TuyaSmart' in the store to download the app on your phone.

1. Make sure your phone and control box use the same WIFI.
2. Register an account.
3. log in and enter the homepage.
4. Click 'Add Device' or '+ sign' in the upper right corner to add a new device. Select the 'Lighting' item in the Add Manually column, select the 'Lighting (Wi-Fi)' in the Add Device to add light.

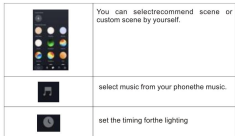
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4. Connect light: switch Power 3 times until output light fast blinking, meaning successful, and each step of power on to power off need less than 5 seconds. Then to connect the light.
Note: In normal mode, please confirm that the device red light is quickly blink and then into the next step. If the light is not flash, please power on your device, and then power off (repeat 3 times) if add the device in Normal mode fails many times, please go to Add Device-AP mode.

Select wifi routing network and input password-->click "next" click "fast blinking" (0.5s) time "next" --> app wiring, the output light will stop fast Device add successfully, blinking at the same time. Now you can customize the naming settings for the controller, and the controller can be assigned to 6 places such as living room, master bedroom and so on.

1. 1600 million colors: choose color mode then touch the color ring to choose different colors.
2. Scene Mode: There are 8 default modes in total, the above 4 modes are static color scenes, the following 4 modes are dynamic scene modes can be "Set".

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In non-DMX mode, quickly turn the power on and off three times (disconnecting within 5 seconds of powering on is considered a quick power-off). When the LED strip's white light begins to flash, it indicates that the device has entered network setup mode. At this point, you can start the network setup operation in the "Smart Life" APP.

5. Cautions

- 1) Please read the instruction manual carefully before using the product.
- 2) Please make sure the input voltage is in the right range.
- 3) Please avoid exposing the controller under rain or sunshine. The controller is not waterproof. Or, please kindly install the controller in a waterproof box.
- 4) Don't overload, and ensure that all parts are firmly connected, so as to avoid any accident because of overheating or poor contact. 5) Before powering on, please ensure that all connections are correct to avoid any damage to the lamp.

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6. FCC Warning

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.

NOTE 1: 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.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The device has been evaluated to meet general RF exposure requirements. The device can be used in portable exposure conditions without restriction.