# Colorful controller manual

# V3.0



## 一、Features and advantages of controller

✓    Single channel output, maximum carrying 30A current.

✓    Bluetooth communication, mobile app and wechat applet are controllable.

✓    Support multi-choice program playback and mobile phone editing playback effect.

✓    Main and sub control mode, one colorful main control can cascade multiple sub control.

✓    The controller provides 2 physical keys for switching mode and speed.

✓    Support voltage DC5~24V colorful lamps.

# 二、Controller parameters



## 2.1、Component description

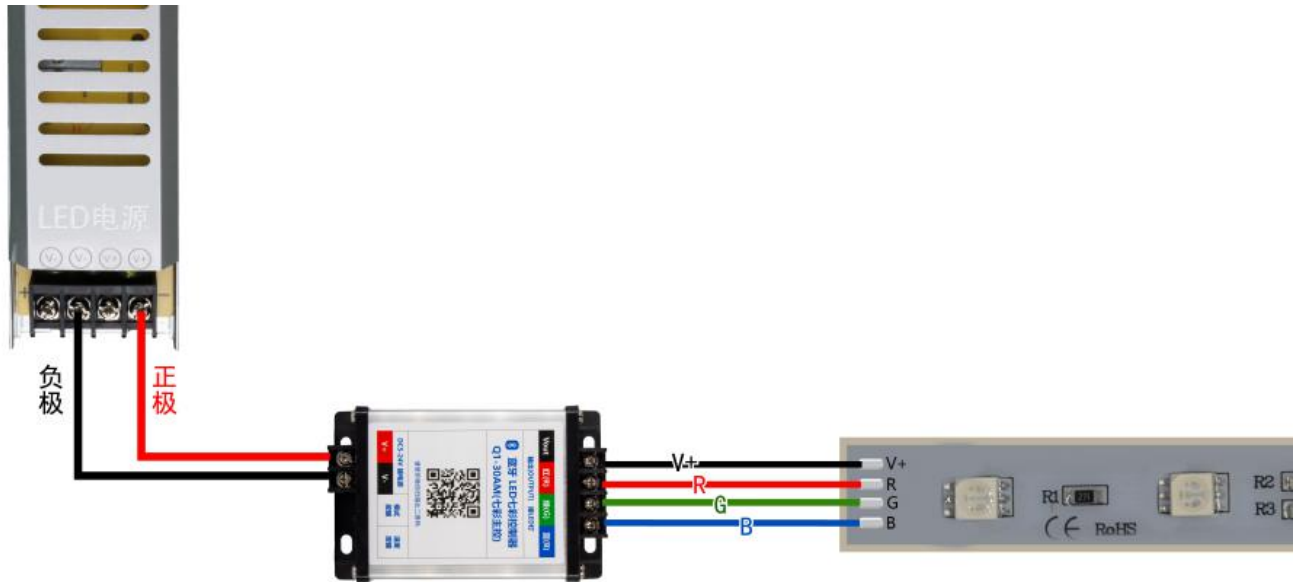| Silk screen display | | Function description |
|---|---|---|
| Output (output) to connect LED lamp. | VOUT | The positive pole of the colorful lamp. |
| | Red(R) | The red signal line of the colorful lights. |
| | Green(G) | Green signal line for colorful lights |
| | Blue（B） | Blue signal line for colorful lights |
| DC5-24V | V+ | Power supply positive pole |
| | V- | Power supply negative pole |
| Mode key | Entity key | Switching effect |
| Speed key | Entity key | Switching speed |
| Cascaded input (INPUT) | VIN | The positive pole of the colorful lamp or the output port. |
| | Red(R) | A red signal line with colorful lights or output ports. |
| | Green(G) | Green signal line for colorful lights or output ports. |
| | Blue（B） | A blue signal line with colorful lights or output ports. |

## 2.2、Controller parameters

- Working voltage：DC5-24V

- Maximum current：30A
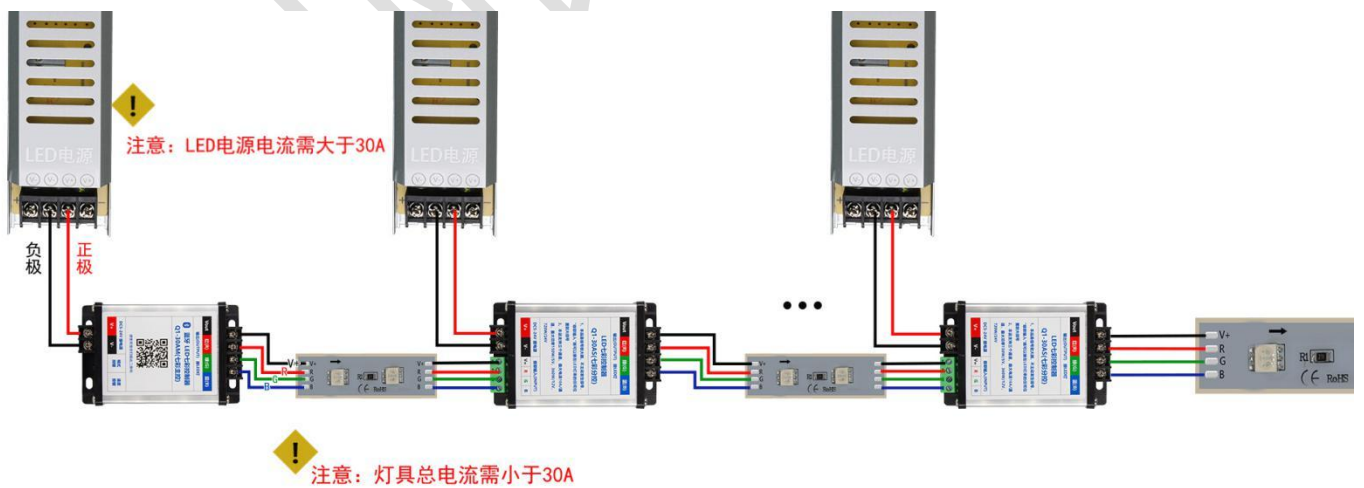
- Weight：85G

- Product size：100mm x 62mm x 25mm

● Output port：1 way

# 三、**Wiring diagram**
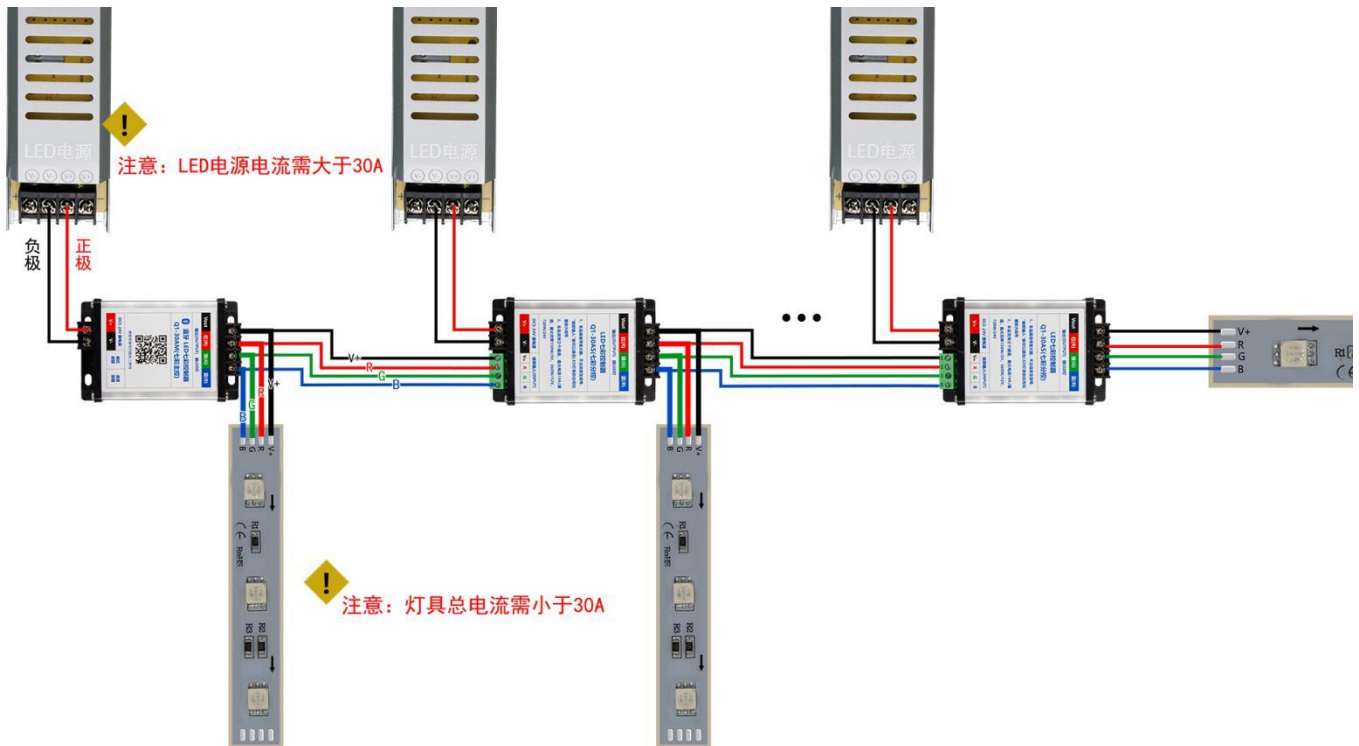
● **Single station use**



● **Multiple cascading modes 1**

● **Multiple cascading modes 2**



# 四、Operating instructions

## 4.1、Speed setting

　　Each time you press the "speed" key to switch a speed level, the speed is divided into 16 gears, and return to the first gear after switching to 16 gears.

## 4.2、Effect play

　　Each time you press the "mode" key to switch one program effect, 32 program effects are built in.

　　The names of 32 built-in effects are shown in the table below:

| ID | Effect description | ID | Effect description |
|----|-------------------|----|-------------------|
| 1 | Static red | 17 | Flicker - yellow cyan |
| 2 | Static Green | 18 | Blink 3 times - red, green and blue |
| 3 | Static blue | 19 | Blink 3 times - red, green, blue, yellow, cyan, purple and white |
| 4 | Static yellow | 20 | Blink 3 times - yellow, cyan and purple |
| 5 | Static cyan | 21 | Gradient red |
| 6 | Static purple | 22 | Gradient Green |
| 7 | Static white | 23 | Gradient blue |
| 8 | Flashing red | 24 | Gradient yellow |
| 9 | Flashing green | 25 | Gradient cyan |

| 10 | Flashing blue | 26 | Gradient purple |
|----|---------------|----|-----------------|
| 11 | Flashing yellow | 27 | Gradient white |
| 12 | Flashing blue | 28 | Gradient - red, green and blue |
| 13 | Flicker purple | 29 | Gradient - red green blue yellow cyan white |
| 14 | Flashing white | 30 | Gradient - yellow cyan purple |
| 15 | Flashing red, green and blue | 31 | Gradient - red yellow green cyan purple |
| 16 | Flashing - red green blue yellow cyan white | 32 | Jump - red green blue yellow cyan white |

## 五、**Points for attention**

1、The maximum on-load current of on-load lamps shall not exceed 30A.

2、When using the Bluetooth controller of the mobile phone, turn on the Bluetooth switch and position switch of the mobile phone, otherwise the device cannot be scanned.