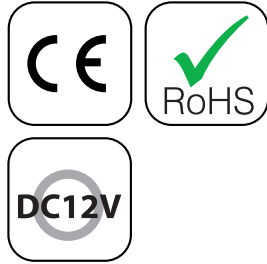## Characteristic



· **PWM (Pulse-Width-Modulation) controlling technology.**
· 25 changing modes such as skipping, smooth, etc. Plus each RGB has 4,096 grey scale levels.
· LED digital indicators display current mode, speed, brightness.
· Three rotary knobs allow to choose specific colors. Changing color is smooth without flicers.
· Save color automatically, can be adjusted by remote control.
· Over-current and short-circuit protection.
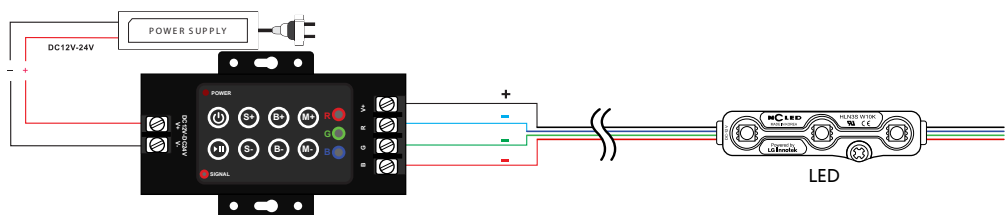· Work with signal repeater/amplifier allow user to add unlimited LED lights.

## Physical
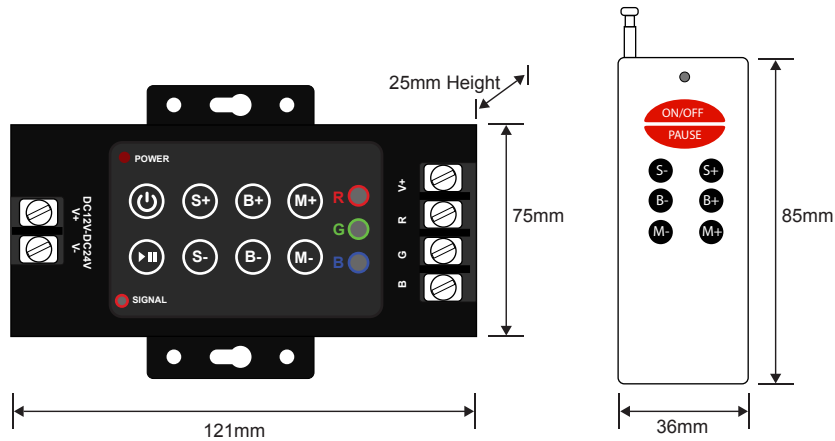


| Model | 8-Key RF RGB Controller |
|---|---|
| Working temperature | -20-60C° |
| Input voltage | DC12V-24V |
| Output Current | 8A/3CH |
| Output power | 12V:<288W,  24V:<576W |
| Mode | 25modes |
| Dimension | 121x75x25 mm |
| Weight | 256g |

## Installation

**Connection diagram**
  1. Connection diagram to RGB LED.



**Elite LED Supply, Inc**
8720 Westpark Dr Ste B TX 77063
Tel:713-234-6579 Fax:832-886-5256 www.eliteledsupply.com

**Installation (Continued)**

2. Connection diagram to RGB LED with signal repeater/amplifier.
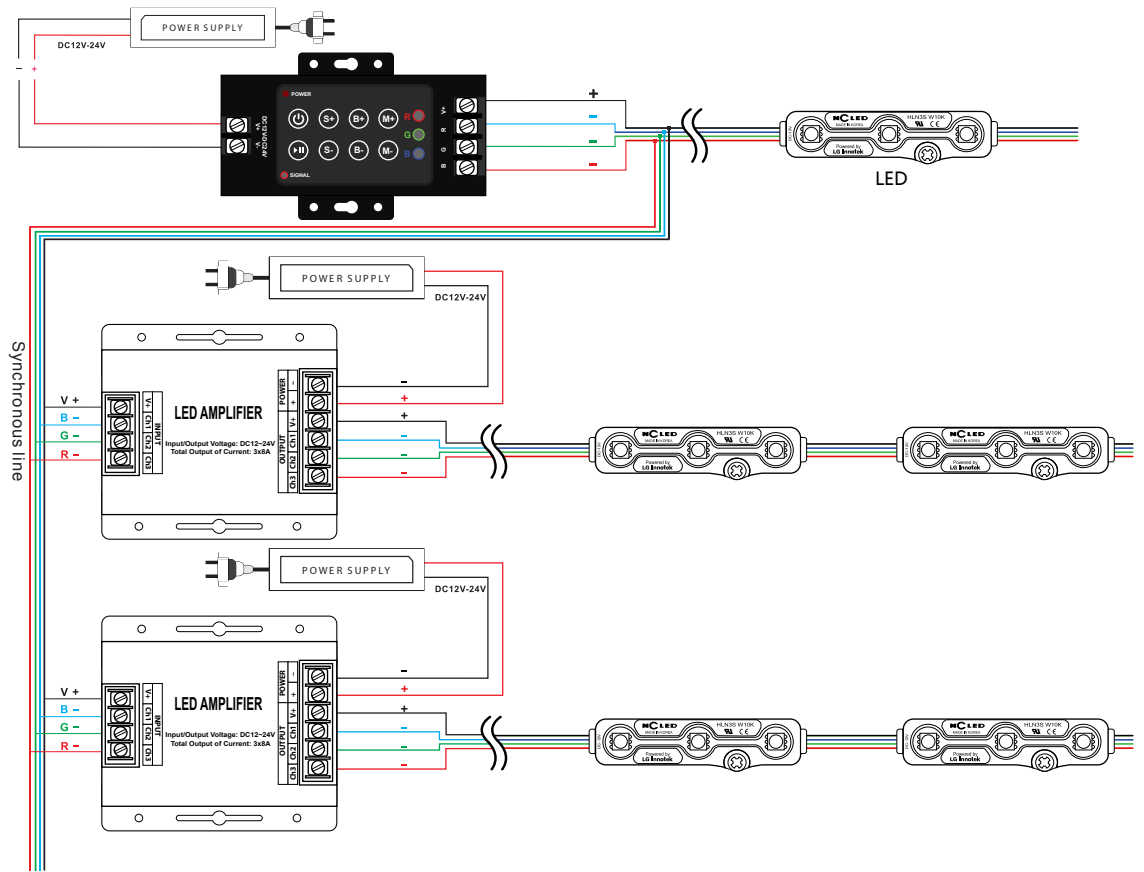


⚠️ **SAFETY INFORMATION**

1. Supply voltage of the controller is DC 12V-24V. Higher input voltage will permanantly damage components of the controller and stop w orking.
2. Connect the load wire at first then by the power wire; Please ensure there is no short - circuit between wire connection before turn on the power.

**Operation Instructions**

Both controller and remote control has altogether 8 buttons with same functions. Each button's fuction described in the table below:

| Sign | Button | Description |
|------|--------|-------------|
| ⏻ | **On/Off** | Power on or off the controller at any mode |
| ⏯ | **Play/ Pause** | This function is applied to any changing color mode. Press once to pause at a desire color(static). Press again to continue. |
| S+ | **Speed up** | Increase speed of changing color mode. Including fading, color skipping and strobing(flashing). |
| S- | **Speed down** | Decrease speed of changing color mode. Including fading, color skipping and strobing(flashing). |
| B+ | **Brightness up** | Increase brightness of any static color mode. |
| B- | **Brightness down** | Decrease brightness of any static color mode. |
| M+ | **Mode up** | Change forward to the next mode. There are 25 different mode patterns. Please refer to the Pattern Table below. |
| M- | **Mode down** | Change backward to the previous mode. |

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**Operation Instructions (Continued)**

### Pattern Table

There are 25 modes or patterns as shown below. Press (M+) to move forward to the next mode. Press (M-) to move backwarde to the previous mode.

| Mode | | Remarks | Mode | | Remarks |
|---|---|---|---|---|---|
| 1 | Static red | Brightness is adjustable, Speed is nonadjustable | 14 | Green stroboflash | Speed and Brightness are adjustable |
| 2 | Static green | | 15 | Blue stroboflash | |
| 3 | Static blue | | 16 | Yellow stroboflash | |
| 4 | Static yellow | | 17 | Purple stroboflash | |
| 5 | Static purple | | 18 | Cyan stroboflash | |
| 6 | Static cyan | | 19 | White stroboflash | |
| 7 | Static white | | 20 | Red/Blue crossfade | Brightness is nonadjustable, Speed is adjustable |
| 8 | Three-color jumpy changing | Speed and Brightness are adjustable | 21 | Blue/Green crossfade | |
| 9 | Seven-color jumpy changing | | 22 | Green/Red crossfade | |
| 10 | Three-color gradual changing | Brightness is nonadjustable, Speed is adjustable | 23 | All fade in & out | |
| 11 | Seven-color gradual changing | | 24 | Random stroboflash | Speed and Brightness are adjustable |
| 12 | Three-color flowing | Speed and Brightness are adjustable | 25 | Automation | 1~24 |
| 13 | Red stroboflash | | | | |

### Troubleshooting

| Problem | Cause | Solution |
|---|---|---|
| No Light | 1.No power from the socket | 1.Check the socket |
| | 2.Reverse connection of power +/- | 2.Modify the connection |
| | 3.Wrong or loose connection | 3.Check connection |
| Wrong color | 4.Wrong wiring color | 4.Re-wire RGB |
| Brightness of the LED is not evern | 5.Output wire too long, voltage drops | 5.Reduce cable or use loop connection |
| | 6.Wire gauge too small, voltage drops | 6.Calculate the current, use bigger wire |
| | 7.Power supplier overloads | 7.Use higher wattage power supply |
| | 8.Controller overload | 8.Add a signal repeater |
| Mode doesn't change | 9.The setting of speed is too low | 9.Increase the speed |
| Can't be remote controlled | 10.The battery has run down | 10.Change battery |
| | 11.Out of the controlling distance | 11.Shorten the controlling distance |

**ELITE LED**