Constant Voltage LED RGB Controller User Manual





(Please read through this manual carefully before use)

1、Brief Introduction

RGB controller is a unique DIY version as well as a powerful combination that can control color changes of LED lights with 4-pin 3-loop cables (common anode), built-in 18 modes with touch functional buttons, provided with IR wireless remote control panel, users can control color changes of LED light by pressing the button on the controller or on the remote control panel, very users friendly.

2. Specifications

Constant voltage controller		
Input voltage	DC12V~DC24V	
Max load current	6A/CH×3	
Max load power	220W/450W(12V/24V)	
Changing mode	18 modes	
Scale level	4096 steps per RGB	
Static dimming	ming mixing up 4096 colors	
Dimension	L142×W73×H30(mm)	
Package Size	L145×W88×H46(mm)	
Weight (G.W)	350g	

3、Basic Features

- Automatic switch from DC12V-DC24V; With 21 Buttons IR Wireless remote control, reliable control distance can reach
- 3. Several DIY Storage Buttons, to record your favorite modes;

- 4. 0-100% dimming and 16 levels of static brightness per RGB. can mix 4096 colors.
 5. 3-Channel RGB full color control, maximum outputs 6A per Channel.
 6. 4096 Grey scales per RGB, color-smooth effect is gentle and accurate.
 7. Can choose changing speed separately and adjust the brightness of each mode.
 8. Can stop at current color and color brightness by selecting PAUSE function.
 9. Working with ourpower repeater, can expand power unlimitedly.
 10. Power loss memory function.
 11. Equipped with extension infrared receiver, more convenient to receive infrared signals.

4、Safety warnings

- Please don't install this controller in lightening, intense magnetic and high-voltage fields.

 1. To reduce the risk of component damage and fire caused by short circuit, make sure correct connection

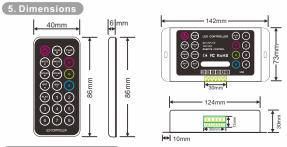
 2. Always be sure to mount this unit in an area that will allow proper ventilation to ensure a fitting temperature.

 3. Check if the voltage and power adapter suit the controller (please select DC12-24V power supply with constant voltage)

 4. Don't connect cables with power on; make sure a correct connection and no short circuit checked with instrument before power on.

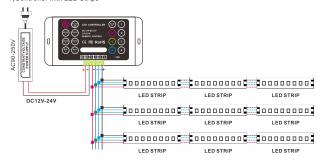
 5. Please don't open controller cover and operate if problems occur.

 The manual is only suitable for this model; any update is subject to change without prior notice.



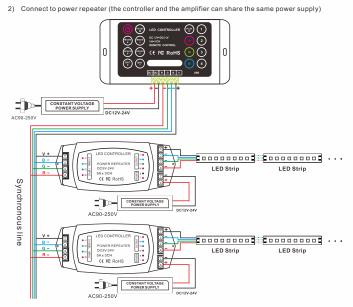
6. Conjunction Diagram

1)Controller with LED Strips

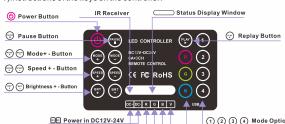


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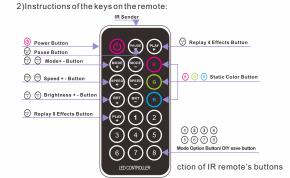


1) Instructions of the keys on the controller:



RGBV Signal Output to LED Lamps

1 2 3 4 Mode Option Button 6 B Static Color Button



3)Detailed key functions

Sign	Button	Description	
0	ON/OFF	Turn on/off the controller Any button can start the controller at off status.	
PAUSE	PAUSE	Press this button will rest at current color, it will continue to change if press again. Press this button in 3 seconds, the buzzer can be on or off	
Mode Mode	MODE+ MODE-	Press them to select next mode or back to previous mode (pls refer to the VI item) , press MODE+ or press MODE- over 3s to enter cycle mode.	
sim sim	SPEED+ SPEED-	Press them to quicken or slower speed, press SPEED+ or SPEED- over 3s, current speed is restored to Default status.	
ORT BRT	BRT+ BRT-	Press them to increase or decrease brightness, press any one over 3s, current brightness is restored to Default status.	
1 2 3 4	DIY modes	Press them over 3s, LED flickers twice, then remember current change mode on this button, it can save 4 modes, just press it once then enter into pre-setup mode.	
1 2 3 4 5 6 7 8	DIY modes of remote	Press them over 3s, LED flickers twice, then remember the current mode on this button, it can save 8 modes, later can reach your pre-setup mode by just pressing it once.	
PLAY	PLAY	Cycle play the 4 pre-setup modes in controller.	
PLAY	PLAY+	Cycle play the 8 pre-setup modes in IR remote controller.	
R G B	RGB Dimming Key	Press single R, G, or B key continuously to change the brightness of RGB LED. In single R, G or B dimming status, press BRT+/BRT- key to increase/decrease the brightness of current LED.	

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Tables of changing modes				
Sequence	Modes	Description	Remark	
1	Static red	Normally on red	Brightness adjustable	
2	Static green	Normally on green	Brightness adjustable	
3	Static blue	Normally on blue	Brightness adjustable	
4	Static yellow	Normally on yellow	Brightness adjustable	
5	Static purple	Normally on purple	Brightness adjustable	
6	Static cyan	Normally on cyan	Brightness adjustable	
7	Static white	Normally on white	Brightness adjustable	
8	3-color skipping	Red, green & blue 3-color skipping	Brightness & speed adjustable	
9	7-color skipping	Red, green, blue, yellow, purple, cyan, white 7-color skipping	Brightness & speed adjustable	
10	White color strobe	White (with all red, green & blue on) strobe	Brightness & speed adjustable	
11	3-color smooth	RGB 3-color gradual changes	Brightness & speed adjustable	
12	Full color smooth	All 7-color gradual changes	Brightness & speed adjustable	
13	RG color smooth	Red, green 2-color gradual changes	Brightness & speed adjustable	
14	RB color smooth	Red, blue 2-color gradual changes	Brightness & speed adjustable	
15	GB color smooth	Green, blue 2-color gradual changes	Brightness & speed adjustable	
16	White color fade & change	white (with red, green & blue on) gradual bright & fade	Brightness & speed adjustable	
17	Great cycle	All changing modes overlap cycle	1	
18	RGB static dimming	0-100% dimming per RGB	16 levels of brightness per RGB	

7. After Sales

From the day you purchase our products within 3 years, if being used properly in accordance with the instruction, and quality problems occur, we provide free repair of replacement services except the following cases:

- 1. Any defects caused by wrong operations.
- 2. Any damages caused by inappropriate power supply or abnormal voltage. $3. Any \ damages \ caused \ by \ unauthorized \ removal, \ maintenance, \ modifying \ circuit, \ incorrect$
- connections and replacing chips.
- 4. Any damages due to transportation, breaking, flooded water after the purchase. 5. Any damages caused by earthquake, fire, flood, lightning strike etc force majeure of
- natural disasters. 6.Any damages caused by negligence, inappropriate storing at high temperature and humidity environment or near harmful chemicals.

8. Kindly Reminder

Power Source Selection:

Power source must be DC constant voltage type of power supply. Due to the efficient output in some power supplies are only 80% of total, so please select at least 20% higher output power supply than the consumption of LED lights.