## Multi-function LED RGBW Controller **User Manual**





(Please read through this manual carefully before use)

### 1. Brief Introduction

Welcome to use this RGBW controller, it is a universal high-performance power controller for entire color changing which adopted PWM(Pulse-Width-Modulation) controlling technology. Controls all common anode constant voltage RGBW LED light, such as RGBW full color LED module, LED strip, LED SMD tape, etc. It can be controlled by the RF  $\,$ remote within the effective area no matter the direction and obstacles.

### 2. Specifications

Model	Rotary RGBW controller
Input voltage	DC12V-DC24V
Output current	5A×4CH
Output power	240W(12V)/480W(24V)
Scale levels	4096 level×4
Mode	37modes
Speed level	16 levels
Brightness level	16levels
Remote control distance	30m with obstacle, 60m without obstacle
Dimension	L176×W46×H30(mm)
Weight	210g

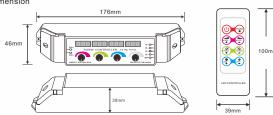
### 3. Function and feature

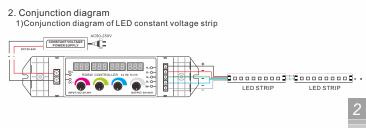
- 1. Automatically adapted input voltage DC12V-24V.
  2. 37 changing modes such as skipping , smooth,etc., RGBW 4096 grey scale levels each.
- 3. The LED digital tube indicates current mode, speed and brightness, very straightforward. 4. 4 dimming rotary knobs, conforms to the special treatment of human eye's feature, can DIY your favorite color.
- 5. Over current protection and short circuit protection
- 6. Work with power repeater, the power can be amplified unlimitedly

- To ensure your safety and product properly usage, please read the user manual carefully.
   To avoid installed the product in minefield, strong magnetic field and high voltage area.
   To ensure the wiring is correct and firm avoiding short circuit damages to components and
  - 4. Please install the product in a well ventilated area to ensure appropriate temperature
  - 4. Please install the product in a well ventilated area to ensure appropriate temperature environment.
    5. The product must be worked with DC constant voltage power supply. Please check the consistence of input power with the product, if the output voltage of the power comply with that of the product.
    6. Connect the wire with the power on is forbidden. Ensure proper wiring first then check to
  - ensure no short-circuit, then power on!
    7. Don't repair it by yourself whenever an error occur. Contact the supplier for any inquiry.

## 5. Installation and usage

### 1. Dimension



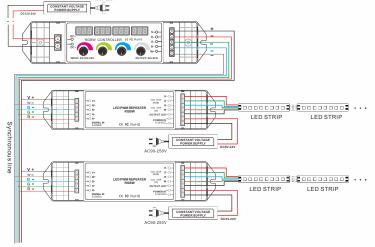




### Constant Voltage LED RGBW Controller

Constant Voltage LED RGBW Controller

2) Connect to power repeater (the controller and the amplifier can share the same power supply)



# 3. Operation instruction

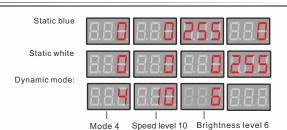


Four rotary knobs to dim Red , Green , Blue and White colors, When rotating the knobs the operation mode shifts to mode 1 automatically, and the LED digital tube shows the grey scale level of Red, Green, Blue and White under this mode. The LED digital tube indicates current mode, speed and brightness

Such as Mode1







When it is overload or short-circuits, the controller automatically stop output, LED display

twinkles and shows:" ERR", as below:



ON/OFF、PAUSE、MODE+、MODE-、SPEED+、 The 8 buttons on remote controller are : SPEED - SBRT+ BRT-

The remote control ID learning guide: Long press ON/OFF button on the controller ,when the light flashed, press pause key on the remote control, when the light flashed again, the ID set.

Sign	Button	Description
(	ON/OFF	ON/OF: Turn on/off the controller Any button can start the controller at off status
PAUSE	PAUSE	PAUSE: Press this button will rest at current color, press it again, will continue to change.
MODE	MODE+	Mode+: Press this button to select next mode. Hold the button for 3 seconds, when the led flashes three times, the controller enters into cycle mode.
MODE	MODE-	Mode-: Press this button & back to previous mode. Hold the button for 3 seconds, when the led flashes three times, the controller enters into cycle mode.
SPEED •	SPEED+	Speed+: Press this button to select 1-16 speed changing levels, speed up. Hold the button for 3 seconds, when the LED flashes 3 times, it indicates the speed of all modes have been reset to default.
SPEED -	SPEED-	Speed-: Press this button to select 1-16 speed changing levels, speed down. Hold the button for 3 seconds, when the LED flashes 3 times, it indicates the speed of all modes have been reset to default.
AND BRT +	BRT+	BRT+: Press this button to select 1-16 brightness adjustment levels. Brightness up. Hold the button for 3 seconds, when the LED flashes 3 times, it indicates the brightness of all modes have been reset to default.
BRT -	BRT-	BRT-: Press this button to select 1-16 brightness adjustment levels. Brightness down. Hold the button for 3 seconds, when the LED flashes 3 times, it indicates the brightness of all modes have been reset to default.

Constant Voltage LED RGBW Controller

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19 Purple fading Brightness, speed adjustable	18	Yellow fading	Brightness, speed adjustable	37	Cycle mode	All recycling
	19	Purple fading	Brightness, speed adjustable			

6. Exception nancies					
Malfunction	Causation	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.RGBW wrong wiring	4.Re-wire RGBW			
Brightness of the	5.Output wire too long, voltage drops	5. Reduce cable or use loop connection			
LED is not even	6.Wire diameter too slim, voltage drops	6.calculate the current and change to a wider wire			
	7.Power supplier overloads	7.Change to another large power supplier			
	8.Controller overload	8.Add a power repeater			
Mode not change	9.The setting of speed is too low	9.Press the button to increase speed			
Can't be remote	10.The battery has run down	10.Change battery			
controlled	11.Out of the controlling distance	11.Shorten the controlling distance			

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 or replacement services except the following cases:

1. Any defects caused by wrong operations.

humidity environment or near harmful chemicals.

- 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
- 6.Any damages caused by negligence, inappropriate storing at high temperature and

# 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.