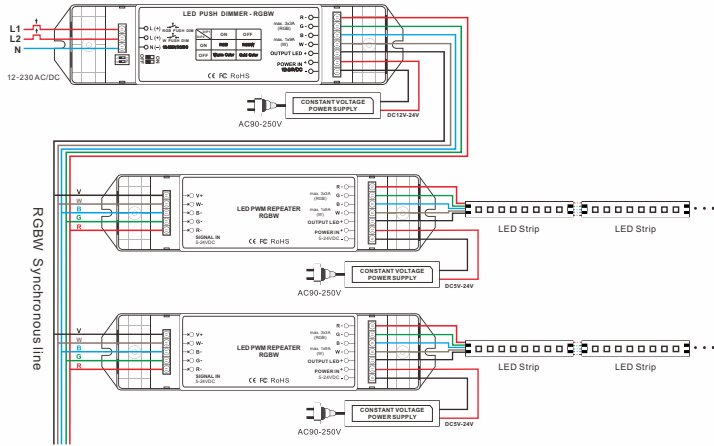RGBW Controller Connects to Repeater (If power is enough, the controller and the repeater can share the same power supply):

8. 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 or 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.
7. Product has been updated.

9. 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.

Constant Voltage RGBW Controller
User Manual

（Please read through this manual carefully before use)

1. Brief Introduction

Welcome to use this constant voltage RGBW controller, it adapts PWM (Pulse-Width Modulation) digital brightness control technology; it changes the dimming modes by DIP switch and duplex push dim button, it's suitable for all DC input constant voltage RGBW LED lights.

2. Specifications

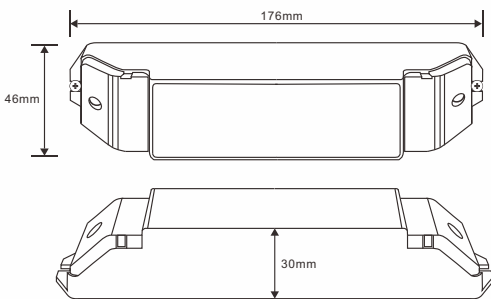| Model	RGBW controller
Input voltage	DC12V-24V
Max output current	RGB: 3A×3CH W: 9A×1CH
Max output power	RGB: 36W×3CH W:108W(12V) / RGB:72W×3CH W:216W(24V)
Grey scale	4096 levels×4
Output signal	4CH constant voltage PWM
Product size	L176×W46×H30(mm)
Weight	145g

3. Basic Features

1. Automatically adapts to DC12V-24V.
2. 4 output channels, each channel 4096 grey scale, Lamplight soft and stable, without flicker.
3. Static and color changing modes selectable.
4. Power loss memory function.
5. Over current protection, short circuit protection.

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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.

5. Dimensions

6. Operating instructions

1. It must connect with two push buttons; the first push button controls the RGB channel:
1) Short press(within 0.5s), switch on and off the RGB light.
2) Short press the push button 2 times(within 0.5s+0.5s), changes program between static color and color changing. It would flash two times when the mode is changed.
3). In static color program, long press to change the color, long press again for opposite direction; 5 seconds for one step.
4). In color changing program, long press to increase the speed, long press again to decrease the speed. Speed changes from 0.5 sec to 120 sec for one step.
It divides into 10 levels, from 0 to 9:
0=0.5s,1=1s,2=2s,3=3s,4=5s,5=10s,6=15s,7=30s,8=60s,9=120s,
It would flash two times when each of the speed level is changed.

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5). When the light is off, long press to turn on the light and dim up, long press again to dim down. It takes 5 sec to dim from the lowest to the highest brightness.(Within 5s after your long press, it remains in dimming status; If longer than 5s, it would not in dimming status).
Static color mode changing sequence (fading):
Blue, magenta, red, orange, yellow, green, cyan, white
It has two jumpers you can choose between 4 different color changing programs, the jumpers are only for the color changing mode, not for static color.

DIP1	DIP2	MODE	Color change sequence(fading)
ON	ON	RGB	red, orange, yellow, green, cyan, blue, magenta
OFF	ON	RGBW	blue, magenta, red, orange, yellow, green, cyan, white
ON	OFF,	Warm color	red, orange, red, purple
OFF	OFF	Cold color	cyan, blue, white

2. In RGBW mode, it takes the white color from the white LED and not the white color mixed by RGB.
The second push button controls the W channel:
PUSH DIM Description:
1) Short press PUSH DIM button (less than 0.5S), to control the light ON/OFF.
2) Long press PUSH DIM button (more than 0.5S), adjust the light brightness; After each adjustment, the changing goes opposite.
3) When the light is OFF, long press PUSH DIM button, the light turn ON and dim.

7. Conjunction Diagram

1) RGBW Controller Conjunction Diagram: