

# RGB Remote Controller

## Model: BJ-V300RC-DC12V

### V1.0

# Manual



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**\*\*\*Please read this manual thoroughly before using this controller. \*\*\***

#### ◆ Important Notice:

Thank you for purchasing our BJ-V300RC remote/key-press type controller. Please read this manual carefully before installing and using this product and make sure you understand the manual completely to avoid unnecessary damage and extra cost.

#### ◆ After Service:

If quality problems occur during the normal use abiding by the operation instructions, our company offers replacement service within 1 month from the purchase date or free maintenance within 1 year from the purchase date.

Supposing the damages caused by disobeying the operation instructions or under the following circumstances, we will not take the responsibility for any problems or disfigurements of the product, even if it is still in the warranty period, but the purchaser will bear the maintenance



costs.

1. The damages caused by disassembling, or modifying the circuit personally, or replacing any chip without permission.
2. The damages caused by transportation, bump, or fall to the ground after the purchasing.
3. The damages caused by natural calamities like earthquake, fire, flood, or lightning attack, environment pollution, abnormal voltage.
4. The damages caused by negligence or improper maintenance, such as storing in the high temperature and moisture surroundings, or near the harm chemicals.

If everything goes smoothly, the maintenance time is no more than one month and the charged maintenance costs are only the material cost and postage.

#### ◆ **Precaution:**

In order to keep the intact of the product and to use safely, please follow the instructions in this manual.

1. Please avoid installation in the area where there is lightning strike, or strong magnetic field or the high-voltage place.
2. Ensure the correct and firm wire connection in case that the short circuit damages the parts or causes the fire accidents.
3. The controller should work in the ventilated and dry places to make sure the proper environmental temperature.
4. Before use this product, please check that if the local voltage and the adaptor meet the requirements of the product and also check if the polarities of the power are defined identically with the products.
5. Before switch on the power, please confirm the correct installation and connection, and no short circuit. To do the connection as the power on is forbidden.
6. If the controller working out of the way, please switch off the power, but do not disassemble and repair it privately.



## Product Instruction

**BJ-V300RC remote/key-press type** multifunctional LED RGB controller is used exclusively to control the RGB color of the LED modules with 4 lines and 3 loops (common anode) to change entirely and synchronously.

### ◆ Performance Specification:

<b>Model:</b>	<b>BJ-V300RC-DC12V</b>		
<b>Working Voltage:</b>	DC12V	<b>Output Load Current:</b>	9A/路×3
<b>Self Power Consumption:</b>	< 1W	<b>Output Power:</b>	1~ 300W
<b>Speed Level:</b>	8 level	<b>Brightness Level:</b>	0~8 级
<b>Case Dimension:</b>	L211×W40×H30 MM	<b>Working Temperature::</b>	-10℃ ~ 50℃
<b>Packing Size:</b>	L218×W45×H50 MM	<b>Interface Type::</b>	Terminal Interface
<b>Weight:</b>	200g	<b>Protective Function:</b>	Short circuit Self-protection
<b>Features:</b>	1. Key-press control and remote control are available. The effective remote control distance is 50 meters. But if in the open area, the remote control distance can be 100 meters. 2. Three lines for RGB can be controlled with the maximum output current of 9A for each line. 3. 10 types of change patterns and 256 levels of gray scale 4. In each mode, 1-8 level of speed and 0-8 level of the whole brightness change can be individually controlled 5. Pause function can keep the LED color and gray scale in the present mode.		
<b>Applicable LED Module:</b>	All the RBG LED modules and strips manufactured by our company.		

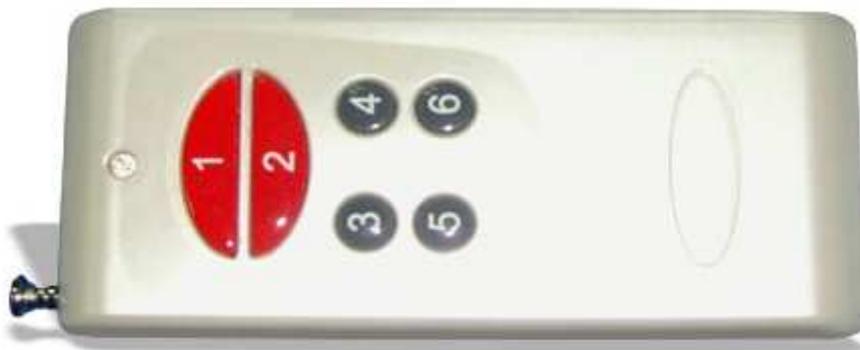


### ◆ Operation Instruction:

BJ-V300RC controller can be operated not only by key-press, but also by remote controller (See the photo of the remote controller below).

The corresponding relationships between the key-press on the remote controller and the key-press on the RGB controller:

Key-press on the RGB controller	MODE	PAUSE	SPD+	SPD-	BRI+	BRI-
Key-press on the remote controller	1	2	3	4	5	6



1. "Mode" key is used to choose a mode. The mode will be changed after each press and total 10 modes can be chosen circularly.
2. "PAUSE" key is used to pause. When it is working in order, press "PAUSE" key, the present color or gray scale will stand by. Press "PAUSE" again or other key, it will be back to the normal state.
3. "SPD+" or "SPD-" key is to change the speed. There are total 8 levels of speeds adjustable. The default speed when the controller powered is the 1<sup>st</sup> level speed, namely the maximum speed.
4. "BRI+" or "BRI-" key is to change the brightness. There are total 8 levels of brightness adjustable. The default brightness when the controller powered is the maximum.
5. After above settings done, the controller will automatically save the settings. Then when powering the controller next time, it will work under the final mode settings saved last time.

**\*\*Precaution: When operating, please press the keys gently, but don't overexert to avoid the membrane key-presses failing to function.**



◆ List for lighting effects:

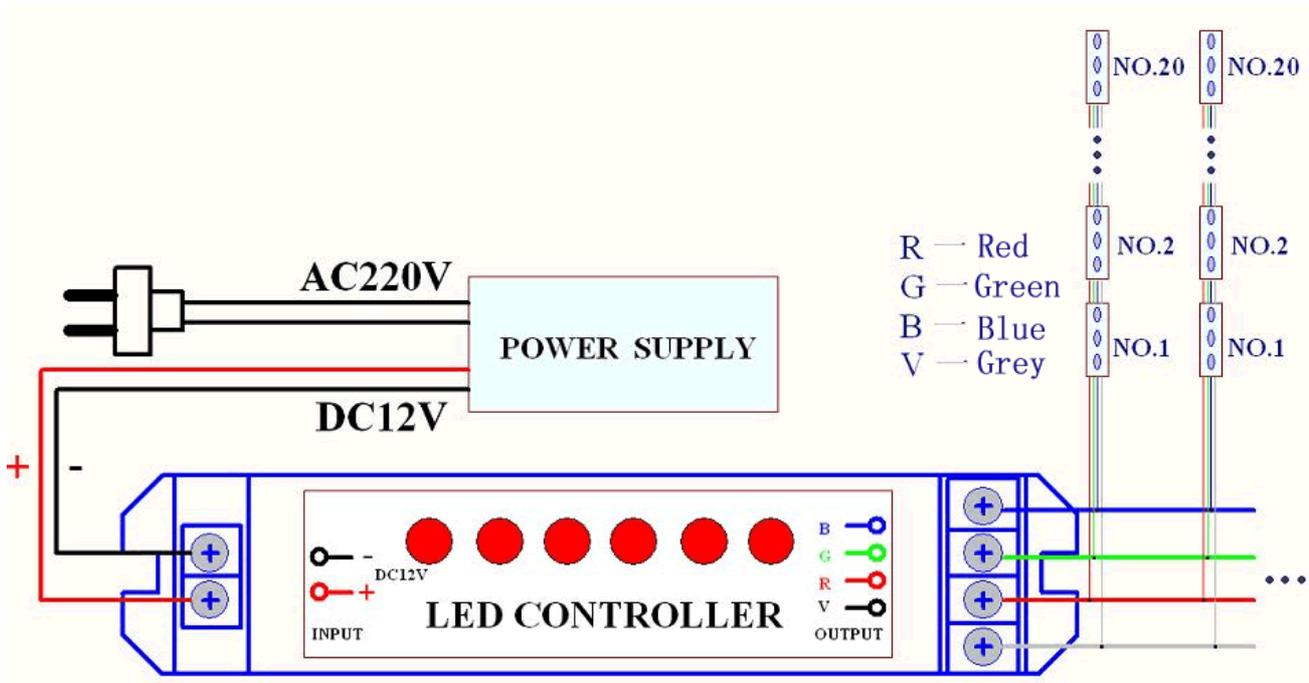
Mode	Lighting Effects	Remark
1	RG Jumping	
2	GB Jumping	
3	RB Jumping	
4	Seven-color Jumping	
5	RG Fading	
6	GB Fading	
7	BR Fading	
8	RGB Fading	
9	Seven-color Gradual Brighter or Dimmer	
10	Auto Cycle Mode	Automatically cycle from the 1 <sup>st</sup> to 9 <sup>th</sup> mode.

◆ Problem Analysis and Solution:

Problem	Reason Analysis	Solution
LED out of work	The wire on the wire terminal in bad connection	Re-connect the wires.
	Anode grey wire in the wrong connection	
	The positive and negative wires of the power supply in short circuit	Re-power
	Be interfered	
In wrong color	The wire is not corresponding with the LED	Re-connect the wire to the corresponding LED.



### ◆ Connection for Reference:



### ◆ Installation:

1. The distance between controller and power supply or between LED modules and controller should be no more than 3 meters;
2. When choosing the power cord, please remember that the total current of the LED modules connected with the power cord should not exceed the normal working current of the power cord;
3. Please make sure that the metal case of the power supply is connected with the ground line since the power supply must be grounding;
4. The waterproof and insulating treatment should be done for the last module of each loop;
5. The controller and power supply must work in the ventilated and dry environment;
6. The Grey output wire(V) of the controller should be connected with the grey common anode wire(DC12V) of the controlled modules, while another three output wires of red, green and blue should be connected with the red, green and blue wires of the controlled modules;
7. Please confirm that no short circuit exists between input or output wires of the main line of the controlling. If electrified when short circuit existing, the internal components may be burned out;
8. When doing the connection and installation, please take care and don't disassemble or install without switching off the power;
9. If the controller working out of the way, please don't disassemble or removing privately, but contact with the manufacturer to solve the problems.



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- **This manual is just for reference only. Shenzhen Beijing Optoelectronics Science & Technology Co., Ltd. reserves the right of the final explanation. Any changes, no further notice.**

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