

## RC3-30600-RF

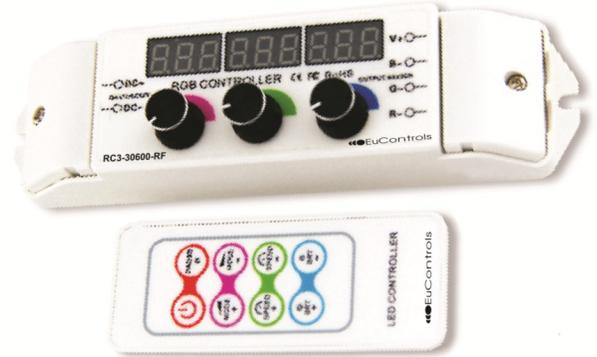
### Constant Voltage RGB Controller

#### Product Features

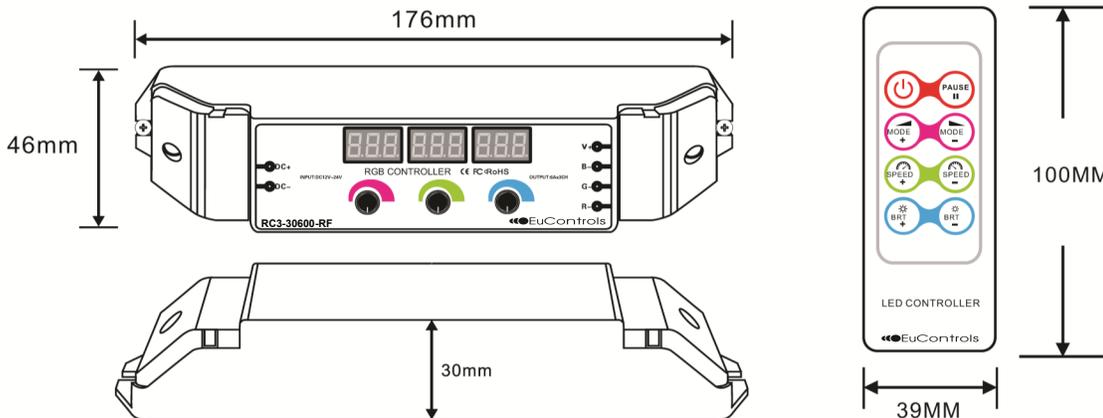
- 8 static and 29 dynamic built-in modes.
- Manually and precisely select exact color in Mode 1.
- Mode 1 memory function will save the custom scene.
- Dimmable in all modes.
- Compatible with most RGB repeaters.
- Over-current and short-circuit protection.
- Power-off memory function.

#### Product Specifications

- Input Voltage Range 12-24VDC
- Max. Load Current 6A per channel x 3 channels
- Max. Output Power 12V: 220W; 24V: 440W
- Grey Scale 4096 levels x 3 channels
- Modes 37
- Speed Levels 16
- Brightness Levels 16
- Remote Control Distance 100 feet
- Operating Temperature 0 - 50°C
- Product Dimensions (L)176 x (W)46 x (H)30 (mm); 6.93 x 1.81 x 1.18 (inch)
- Weights 160 grams



#### Dimensions



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### Applications

Please review the entire user manual and consult with local electrical codes prior to installation. This controller combined with a 12-24VDC power supply will allow the user to manually select the exact color or choose from 37 built-in modes, including dynamic color change scenes.

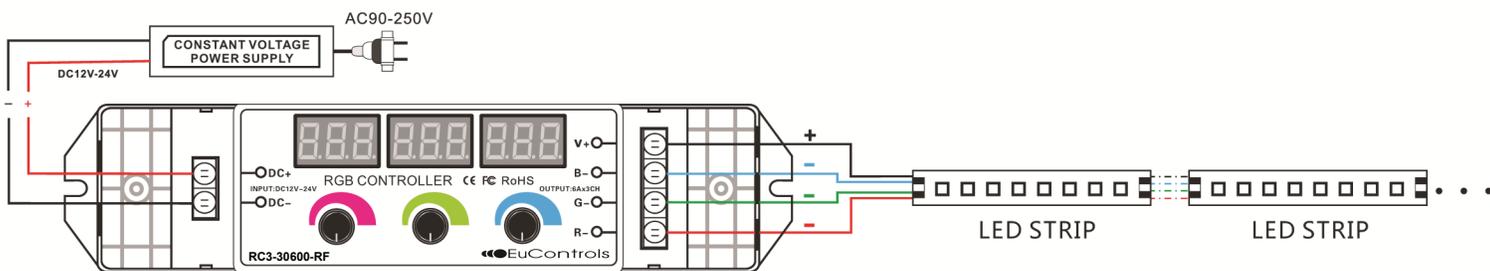
Using PWM (Pulse with Modulation) technology, this controller can control most RGB LED modules and strips lighting.

### Safety Warnings

1. Please consult with local electrical codes and inspectors prior to installation.
2. Do not install near high voltage lines or strong magnetic fields.
3. Check all wiring connections to ensure polarity and to avoid a short circuit prior to powering on.
4. Installation should be in a well ventilated area. Not rated for wet or damp locations.
5. 12-24VDC constant voltage power supply is required.
6. The power supply wattage should match or exceed the load of the LED lights.

### Typical Layouts

- Connection diagram of LED constant voltage strip:

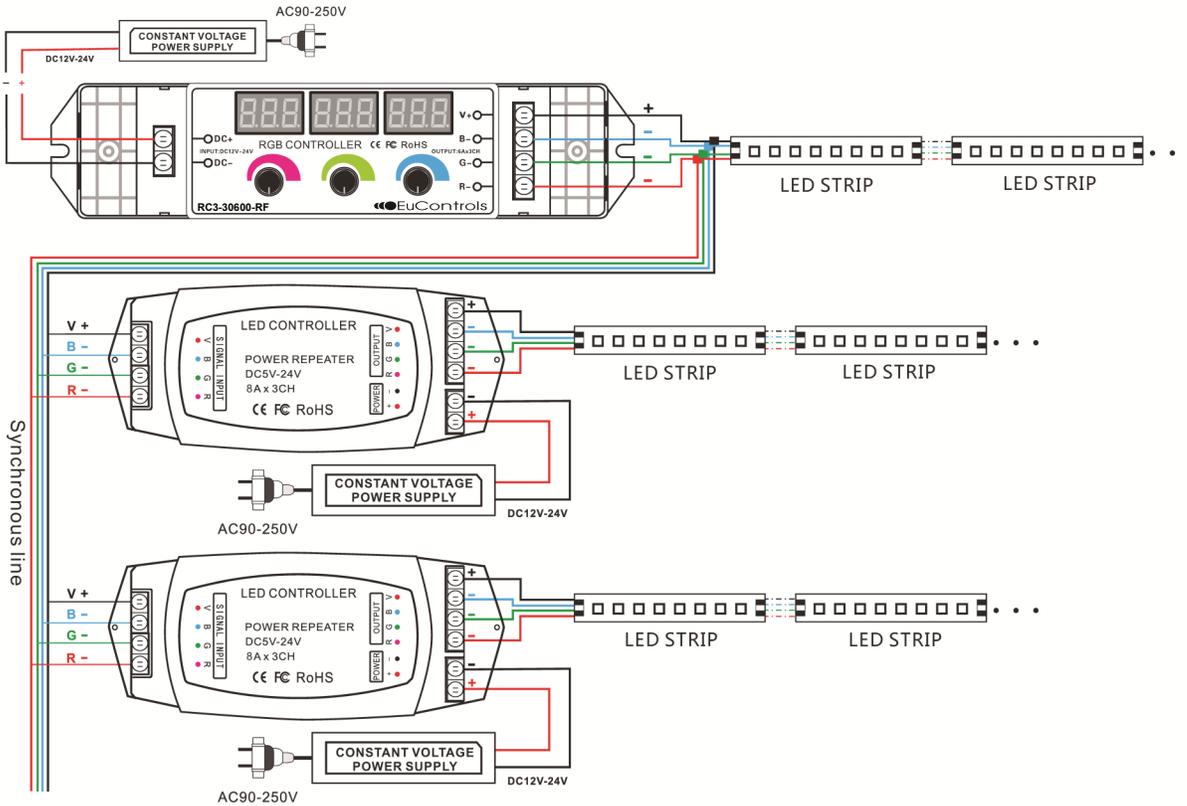


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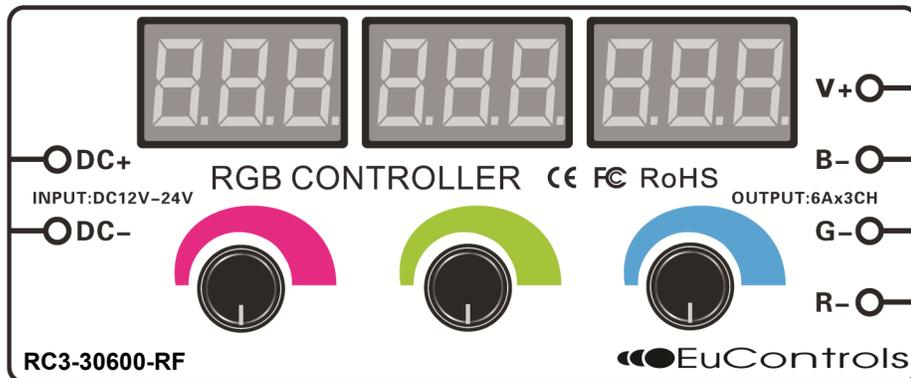
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### Typical Layouts (Cont.)

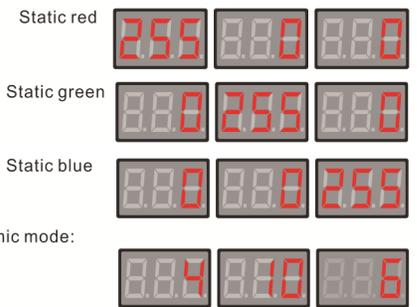
• **Layout with repeaters:**



### Operating Instructions



**Mode 1**



- Use the 3 rotary controls (Red, Green, Blue knobs) to select the exact RGB color desired.
- By rotating the knobs, the controller automatically is in custom mode 1. The controller will recall the settings for mode 1 until they are changed.

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### Operating Instructions (Cont.)

**• Protections:**

“ERR” message indicates a power overload or short circuit. The controller will automatically shut down until the problem is resolved.



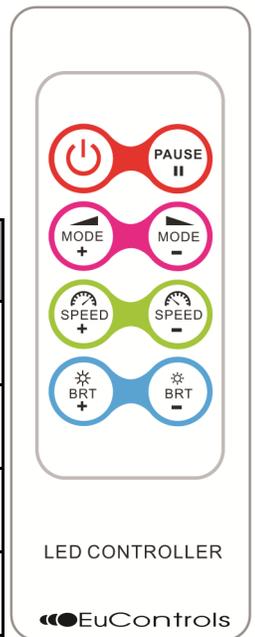
### Remote Control

Use the RF remote to power on/off, pause any scene, change modes, increase or decrease speed and adjust the brightness of the LED lights.

**• Remote Control Buttons:**

To sync the remote with controller, press the ON/OFF button until the light flashes, then press the pause button. If the light flashes again, then remote is synced.

SIGN	BUTTONS	DESCRIPTION
	<b>ON/OFF</b>	Turn on/off the controller (Any button can start the controller at OFF status).
	<b>PAUSE</b>	Hold dynamic scene until another button is pressed.
	<b>MODE+</b>	Select next mode.
	<b>MODE-</b>	Select the previous mode.
	<b>SPEED+</b>	Increase the speed of a dynamic mode.
	<b>SPEED-</b>	Decrease the speed of a dynamic mode.
	<b>BRT+</b>	Increase the brightness of all modes.
	<b>BRT-</b>	Decrease the brightness of all modes.



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### Constant Voltage RGB Controller

#### Table of Change Modes

Mode	Descriptions	Remarks	Mode	Descriptions	Remarks
1	DIY Static Color	Custom color	20	Cyan fading	Adjust brightness and speed
2	Static Red	Adjust brightness	21	White fading	Adjust brightness and speed
3	Static Green	Adjust brightness	22	RGB fading	Adjust brightness and speed
4	Static Blue	Adjust brightness	23	Red/Green slide	Adjust brightness and speed
5	Static Yellow	Adjust brightness	24	Red/Blue slide	Adjust brightness and speed
6	Static Purple	Adjust brightness	25	Green/Blue slide	Adjust brightness and speed
7	Static Cyan	Adjust brightness	26	Red/Yellow slide	Adjust brightness and speed
8	Static White	Adjust brightness	27	Green/Cyan slide	Adjust brightness and speed
9	3-Color Jumping	Adjust brightness and speed	28	Blue/Purple slide	Adjust brightness and speed
10	7-Color Jumping	Adjust brightness and speed	29	Red/Purple slide	Adjust brightness and speed
11	White Strobe	Adjust brightness and speed	30	Green/Yellow slide	Adjust brightness and speed
12	RGB Strobe	Adjust brightness and speed	31	Blue/Cyan slide	Adjust brightness and speed
13	7-Color Strobe	Adjust brightness and speed	32	Red/White slide	Adjust brightness and speed
14	White Speed-up Strobe	Increase white strobe	33	Green/White slide	Adjust brightness and speed
15	Red Fading	Adjust brightness and speed	34	Blue/White slide	Adjust brightness and speed
16	Green Fading	Adjust brightness and speed	35	Yellow/Purple/Cyan slide	Adjust brightness and speed
17	Blue Fading	Adjust brightness and speed			
18	Yellow Fading	Adjust brightness and speed	36	Full color slide	Adjust brightness and speed
19	Purple Fading	Adjust brightness and speed	37	Repeat mode	Adjust brightness and speed

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## Constant Voltage RGB Controller

### Troubleshooting Guides

Problem	Reason	Solution
No Light	No power	Check power supply
	Reversed polarity	Check polarity
	Wrong connection or loose connection	Check connection
Wrong color	Wrong RGB wiring	Re-wire the RGB
The Brightness of the LED lights is not even	Output wire is too long causing a voltage drop	Bring power closer
	Wire is too thin causing a voltage drop	Increase the wire's thickness (gauge)
	Power supply is over-loaded	Change to a larger power supply
	The controller is over-loaded	Add a power repeater
Cannot change mode	The speed setting is too low	Increase the speed
Cannot use remote control	The remote control battery is dead	Change battery
	The remote control is too far away	Move the remote control closer