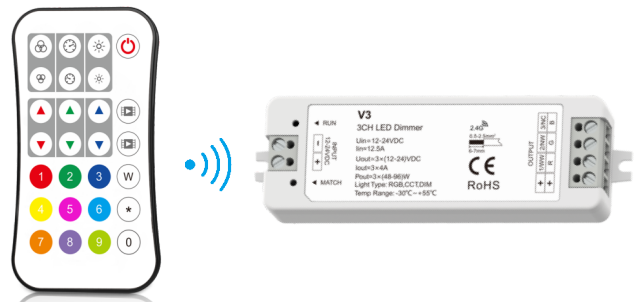


RGB LED Strip Controller Kit

- Mini style controller with 3 channel constant voltage output.
- Smooth dimming and switch without any flickering.
- Built in 10 dynamic mode, include jump or gradual change style.
- Adopt 2.4GHz wireless technology, remote distance up to 30m.
- Auto-transmitting function, one receiver can transmit the signal from the remote to another receiver within 15m, so the remote control distance can be beyond 100m.
- Auto-synchronization function, different receivers can work synchronously when they are controlled by the same remote, under same dynamic mode and same speed.
- Work with power repeater to expand output unlimitedly.



CE RoHS emc LVD RED

Technical Parameters

Controller's Input and Output		Remote's Input and Output		Safety and EMC	
Input voltage	12-24VDC	Output signal	RF(2.4GHz)	EMC standard (EMC)	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4
Input current	12.5A	Working voltage	3VDC(CR2032)	Safety standard(LVD)	EN 62368-1:2020+A11:2020
Output voltage	3 x (12-24)VDC	Working current	<5mA	Radio Equipment(RED)	ETSI EN 300 328 V2.2.2
Output current	3CH,4A/CH	Standby current	<2μA	Certification	CE,EMC,IVD,RED
Output power	144-288W(12-24V)	Standby time	1 year	Environment	
Output type	Constant voltage	Remote distance	30m(Barrier-free space)	Operation temperature	Ta: -30℃ ~ +55℃
Input signal	RF 2.4GHz	Warranty			
PWM frequency	1000Hz (default)	Warranty	5 years		

Mechanical Structures and Installations

Controller:

LED indicator
Power input -
Power input +
Installation rack
Match key
LED output blue -
LED output green -
LED output red -
LED output +
Installation rack

Remote:

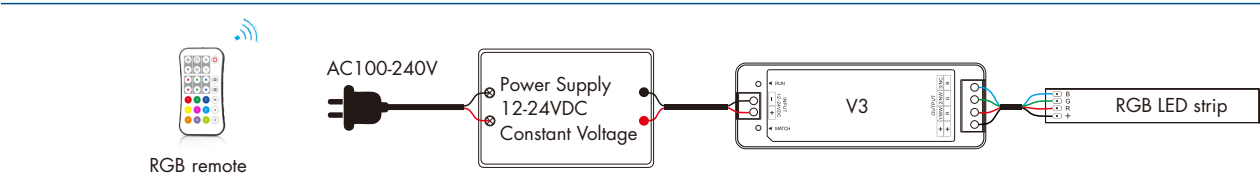
58.5mm
107mm
63.00 mm
68.00 mm
37.00 mm
58.5mm
9mm
CR2032 Battery
Back holder

Note:

1. Before the first use, please remove the protective film on the battery.
2. If the LED indicator is not on when press key, it is due to dead battery or bad contact caused by multiple plugging, please replace the battery, or raise the battery shrapnel with a screwdriver.

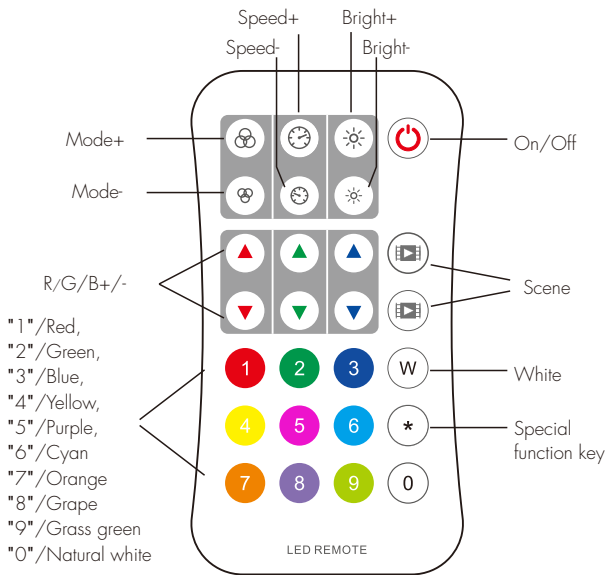
To fix the remote, two options are offered for selection:
Option 1: fix the remote' back holder on the wall with two screws.
Option 2: adhere the remote' back holder to the wall with pastar.

Wiring Diagram



Key function

Pull out the plastic battery barrier sheet from the battery compartment located on the bottom of the remote before key operation.



Mode+/-: Short press switch dynamic mode built in controller, long press 2s Mode+ run mode cycle, long press 2s Mode- run the first mode. Default 32 dynamic modes, long press the Mode+ key for 2s will automatically get the current number of dynamic modes of the controller.

Speed+/-: Adjust dynamic mode speed, short press 10 levels, long press 2s get the fastest / slowest speed.

Bright+/-: Adjust brightness, short press 10 levels, long press 1-6s for continuous 256 levels adjustment.

R/G/B+/-: Adjust R/G/B brightness respectively, short press 10 levels, long press 1-6s for continuous 256 levels adjustment to achieve millions of colors.

White: Adjust white color, for RGB light, short press turn on/off white(RGB mix), long press 1-6s adjust saturation continuously. For RGBW light, press W key will adjust W channel brightness. short press turn on/off W channel, long press 1-6s adjust W channel brightness continuously.

Scene: Short press recall the scene, long press 2s save the current color into the scene. The LED indicator will light up longer when save OK.

Match Remote Control (two match ways)

End user can choose the suitable match/delete ways. Two options are offered for selection:

Use the controller's Match key

Match:
Short press match key, immediately press on/off key (single zone remote) or zone key (multiple zone remote) on the remote. The LED indicator fast flash a few times means match is successful.

Delete:
Press and hold match key for 5s to delete all match, The LED indicator fast flash a few times means all matched remotes were deleted.

Use Power Restart

Match:
Switch off the power of the receiver, then switch on power, repeat again. Immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 3 times on the remote. The light blinks 3 times means match is successful.

Delete:
Switch off the power of the receiver, then switch on power, repeat again. Immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 5 times on the remote. The light blinks 5 times means all matched remotes were deleted.

RGB Dynamic mode list

No.	Name	No.	Name
1	RGB jump	6	RGB fade in and out
2	RGB smooth	7	Red fade in and out
3	6 color jump	8	Green fade in and out
4	6 color smooth	9	Blue fade in and out
5	Yellow cyan purple smooth	10	White fade in and out

Malfunctions analysis & troubleshooting

Malfunctions	Causes	Troubleshooting
No light	1. No power. 2. Wrong connection or insecure.	1. Check the power. 2. Check the connection.
Wrong color	1. Wrong connection of R/G/B wires.	1. Reconnect R/G/B wires.
Uneven intensity between front and rear,with voltage drop	1. Output cable is too long. 2. Wire diameter is too small. 3. Overload beyond power supply capability. 4. Overload beyond controller capability.	1. Reduce cable or loop supply. 2. Change wider wire. 3. Replace higher power supply. 4. Add power repeater.
No response from the remote	1. The battery has no power. 2. Beyond controllable distance. 3. The controller did not match the remote.	1. Replace battery. 2. Reduce remote distance. 3. Re-match the remote.

Safety information

1. Read all instructions carefully before you begin this installation.
2. When installing battery, pay attention to the battery positive and negative polarity. A long time without the remote control, remove the battery. When remote distance becomes smaller and insensitive, replace the battery.
3. If no response from the receiver, please re-match the remote.
4. Gently handle remote, beware of falling.
5. For indoor and dry location use only.