Sign	Button	Description
⏻	ON/OFF	ON/OF: Turn on/off the controllerAny 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
MODE −	MODE-	Mode-:Press this button & back to previous mode
SPEED +	SPEED +	Speed+:speed up. Press this button to select 1-8 speed changing levels.
SPEED −	SPEED	Speed-:speed down. Press this button to select 1-8 speed changing levels.
BRT +	BRT+	BRT+:Press this button to select 1-8 brightness adjustment levels. Brightness up.
BRT −	BRT-	BRT-:Press this button to select 1-8 brightness adjustment levels.Brightness down.

Note: press MODE+, MODE-SPEED+SPEED-, BRT+, BRT- button over 3 seconds, if LED flickers twice, it means it has restored to Default status.

2. Tables of changing modes

Sequence	Modes	Description
1	Static red	Static red, brightness adjustable
2	Static green	Static green, brightness adjustable
3	Static blue	Static blue, brightness adjustable
4	Static yellow	Static yellow, brightness adjustable
5	Static purple	Static purple, brightness adjustable
6	Static cyan	Static cyan, brightness adjustable
7	Static white	Static white, brightness adjustable
8	3 color skipping	Red, green and blue 3-color skipping
9	7 color skipping	Red, green, blue, yellow, purple, cyan, white 7-color skipping
10	White color strobe	White(with all red, green and blue on)strobe
11	3 color smooth	Red, green and blue 3-color gradual changes
12	Full color smooth	All 7-color gradual changes
13	RG color smooth	Red, green 2-color gradual changes
14	R B color smooth	Red, blue 2-color gradual changes
15	GB color smooth	Green, blue 2-color gradual changes
16	White color fade & change	white(with red, green & blue on)gradual bright & fade
17	Great cycle	All changing modes overlap cycle

Constant Current LED RGB Controller User Manual

（Please read through this manual carefully before use）

1、Brief Introduction

This Constant Current Multi-function RGB Controller is a universal RGB controller for entire color changing, which adopted high-performance microchip and the most advanced PWM (Pulse-Width Modulation) controlling technology at present. It can control all 4-pin 3-loop LED RGB full color lights. This series with RF remote controller and it is available only within the valid range.

2、Specifications

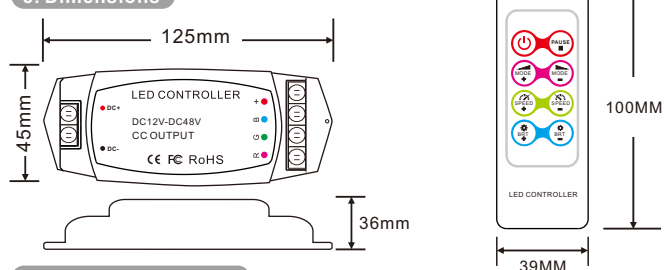| Model	Constant current 350mA	Constant current 700mA
Input voltage	DC12V-DC48V	DC12V-DC48V
Max current load	350MA/CH×3	700MA/CH×3
Driving LEDs/ CH	12V: 1-3pcs 1W LED 24V: 1-6pcs 1W LED 36V: 1-9pcs 1W LED 48V: 1-12pcs 1W LED	12V: 1-3pcs 3W LED 24V: 1-6pcs 3W LED 36V: 1-9pcs 3W LED 48V: 1-12pcs 3W LED
Scale levels	4096 level/CH×3	4096 level/CH×3
Product Dimension	L125×W45×H36(mm)	L125×W45×H36(mm)
Weight (G.W)	145g	145g
Remote control distance	30m with obstacles; 60m without obstacles	30m with obstacles; 60m without obstacles
Control type	Common Anode	Common Anode

3、Basic Features

1. Automatically adapt to LED light which works from DC12V-48V.
2. On-off controller function.
3. 3 channels RGB full color control, 350MA or 700MA output.
4. 17 fantastic modes such as color smooth , color skipping, horserace, strobe, etc.

5. Can choose a changing speed and brightness in a certain mode independently.
6. Can stop at static single color, speed & brightness adjustable at pause status.
7. In disorder station can reset to factory setting.
8. Working with power repeater to expand power output unlimitedly.
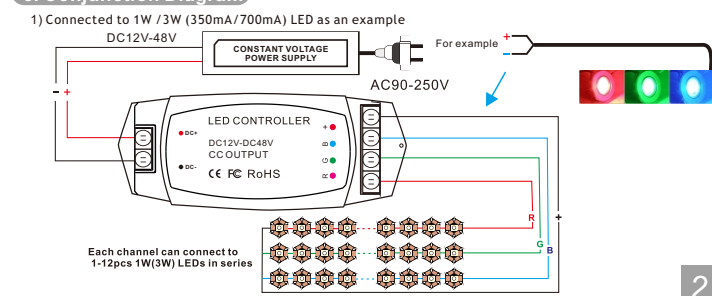9. Power loss memory function.

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 DC12-48V 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.
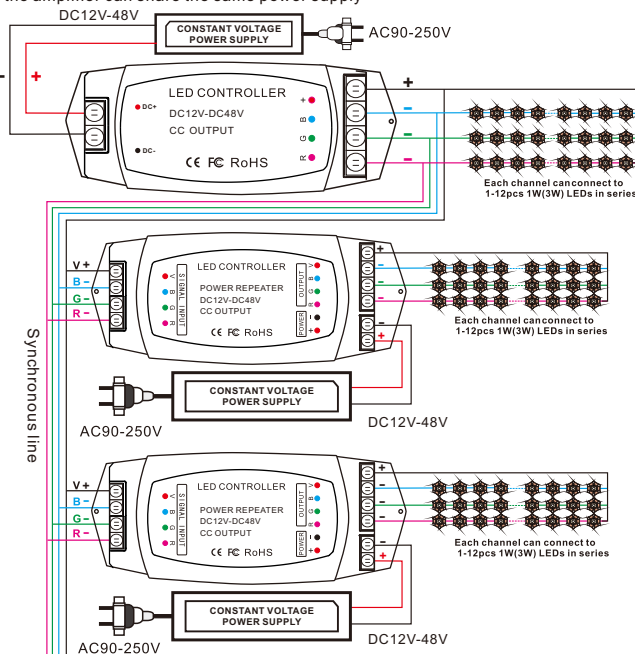
5. Dimensions

125mm
45mm
100MM
36mm
39MM

6. Conjunction Diagram

1) Connected to 1W /3W (350mA/700mA) LED as an example

DC12V-48V
CONSTANT VOLTAGE POWER SUPPLY
For example
AC90-250V
LED CONTROLLER
DC12V-DC48V
CC OUTPUT
Each channel can connect to 1-12pcs 1W(3W) LEDs in series
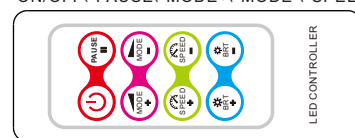
2) Conjunction diagram, working with our power repeater, the controller and the amplifier can share the same power supply

DC12V-48V
CONSTANT VOLTAGE POWER SUPPLY
AC90-250V
LED CONTROLLER
DC12V-DC48V
CC OUTPUT
Each channel can connect to 1-12pcs 1W(3W) LEDs in series
Synchronous line
LED CONTROLLER
POWER REPEATER
DC12V-DC48V
CC OUTPUT
CONSTANT VOLTAGE POWER SUPPLY
AC90-250V
DC12V-48V
LED CONTROLLER
POWER REPEATER
DC12V-DC48V
CC OUTPUT
CONSTANT VOLTAGE POWER SUPPLY
AC90-250V
DC12V-48V

7、Operating instructions

1. On the controller, there are 6 function keys:
ON/OFF、PAUSE、MODE+、MODE-、SPEED、BRT

The remote control ID learning guide: Press ON/OFF button till the light flashes, then press PAUSE button, the light flashes again, the ID is set.

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

1.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.