

# Multifunctional 6CH Controller User Manual



(Please read through this manual carefully before use)

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## 1. Brief Introduction

Welcome to use this LED controller. It is a universal high-performance power controller for entire color changing which adopted PWM(Pulse-Width-Modulation) controlling technology. Controls all common anode 7-pin 6-loop full color LED lights such as: LED module, LED strip, LED SMD tape and so on.

## 2. Specifications

Model	6CH Controller
Input voltage	DC12V-DC24V
Max load current	4A×6CH
Output power	288W(12V)/576W(24V)
Scale levels	4096 level×6
Brightness level	0-100/0-255
Dimension	L176×W46×H30(mm)
Weight	125g

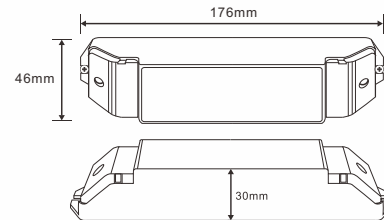
## 3. Basic Features

1. LED digital tube displays the current channel and brightness level, intuitive and clear.
2. DIY your favorite color. Lamplight soft and stable, without flickers.
3. Save your DIY color automatically.
4. Over-current protection, Short-circuit protection.

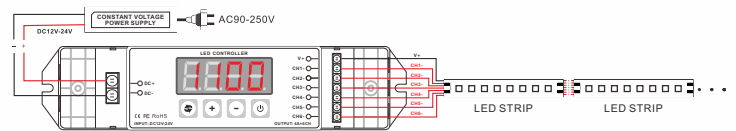
## 4. Safety warnings

1. To ensure your safety and product properly usage, please read the user manual carefully.
2. To avoid installed the product in minefield, strong magnetic field and high voltage area.
3. To ensure the wiring is correct and firm avoiding short circuit damages to components and cause fire.
4. Please install the product in a well ventilated area to ensure appropriate temperature environment.
5. The product must be worked with DC constant voltage power supply.  
Please check the consistence of input power with the product, if the output voltage of the power comply with that of the product.
6. Connect the wire with the power on is forbidden. Ensure proper wiring first then check to ensure no short-circuit, then power on !
7. Don't repair it by yourself whenever an error occur. Contact the supplier for any inquiry.

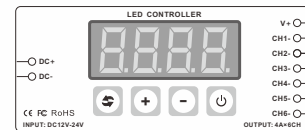
## 5. Dimension



## 6. Conjunction Diagram



## 7. Operation instruction



## 1) Button instructions:

Key	Function
	Switch key for switching channels 1-6.
	+/- key is used for the current channel dimming, long press fast dimming, short press fine tuning.
	On/off key, short press to turn on/off the current channel, long press 3 seconds to turn off all the channels, When the controller is turned off, only OFF is displayed and the channel number is no longer displayed.

## 2) Keyboard lock function description:

No operation for 15 seconds, the keyboard is locked except the switch key. No operation more then 60 seconds , the digital tube will turn off. Then press any key to active it again. After the keyboard is locked, the current channel can be switched by pressing the switch key, but the brightness can not be changed. Long press switch key for 3 seconds to unlock it for normal operation.

## 3) Digital tube description:

NO	Dispaly content	Instructions
1		The first digital tube indicates the channel bit, and the last three digital tubes indicate the brightness level.
2		Digital tube display 10FF: The first channel off.
3		Digital tube display 00FF: Full channel off.
4		Digital tube display 1ERR: First channel over current or short circuit.

## 8. Exception Handles

Malfunction	Causation	Solution
No Light	1.No power from the socket	1.Check the socket
	2.Reverse connection of power +/-	2.Modify the connection
	3. Wrong or loose connection	3.Check connection
Wrong color	4.Wrong wiring	4.Re-wire
Brightness of the LED is not even	5.Output wire too long, voltage drops	5. Reduce cable or use loop connection
	6.Wire diameter too slim, voltage drops	6. Calculate the current and change to a wider wire
	7.Power supplier overloads	7.Change to another large power supplier
	8.Controller overload	8.Add a power repeater

## 9. 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.

## 10. 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.