

RGB 120V DMX CONTROLLER



General Description:

WDM RGB 120V DMX waterproof controller with four wires and three loops is specially designed for controlling the single color changing type. It provides the lighting system with various lighting effects: dynamic, static, flashing and fading seven colors changing. It also consist flashing frequency adjusting, DMX address setting and power-off protection functions. A number of WDM RGB 120V DMX Controllers can also be controlled by interface with a standard DMX.

Specification:

Weight: 5.5 lbs

Input voltage: 120V

Output voltage: 120V

Max. Current: Less than 10A in one or two circuit

Size: 9.25" x 5.70" x 4.42"

Signal connector: 4-pin female connector

DMX512 connector: 3-pin connector

Protection rating: IP44

Operating temperature: -20°C—45°C

Housing: Metal

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Operations:

WDM RGB 120V DMX Controller has many unique functions, such as memorizing, LED displaying and programming. It can also be controlled by a PC or a standard DMX512 controller.

Function key

After turning on the power, if there is no external signal inputting in 10 seconds, the software of the controller will automatically set up controller 1# address as the master controller. The estate digital tube of the master will display "H" and the other slave controllers will display "C". Therefore we can control the mode and the speed of all slave controllers by setting up the master controller.

Operation Features:

The 1st mode: press the "mode" key, the estate digital tube displays "H"; the content digital tube displays "d1". The RED LED is turned on, meaning "steady red".

The 2nd mode: press the "mode" key, the estate digital tube displays "H"; the content digital tube displays "d2". The GREEN LED is turned on, meaning "steady green".....

The 3rd mode: "d3" is for "steady yellow" which means the RED and GREEN LED is on

The 4th mode: "d4" is for "steady blue", BLUE LED is on.

The 5th mode: "d5" is for "steady purple". Which means the RED and BLUE LED is on

The 6th mode: "d6" is for BLUE and GREEN.

The 7th mode: "d7" is for "steady white". The RED, BLUE and GREEN LED is on

The 8th mode: "d8" is for "dynamic seven color skipping". The RED, BLUE and GREEN LED skip.

The 9th mode: "d9" is for "dynamic seven color flashing". The RED, BLUE and GREEN LED flash.

The 10th mode: "dA" is for "dynamic seven color fading". The RED, BLUE and GREEN LED fade,

The "speed" key is for adjusting the color changing speed or the gray scale changes of the static color.

When the mode is selected between option d1 to d7, press the speed key to adjust the gray scale. When the estate digital tube displays "H", the content digital tube displays from p1-p6, 6 levels (p1-p6) are available. P1 is the darkest and p6 is the brightest.

When the mode is selected between option d8 to dA, then press the speed key to adjust the speed of color changing. The estate digital tube displays "H", the content digital tube displays from p1-p6, 6 levels (p1-p6) are available, p1 is the slowest, and p6 is the fastest.

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Operations:

1. Way of Controlling

- A. Controlled by DMX facility controller
- B. Controlled by m/s controller

Controlled by DMX facility controller or M/S controller: the address of the controller is written and read by the address device independently.

When controlled by m/s controller, the signal cables should be connected end to end, shielding the slave controllers.

The software acquiesces the controller 1# address as the master of m/s. The operation which is controlled by DMX facility controller should be under the instruction of the DMX facility controller.

C. Controlled by DMX console

Controlled by DMX console or controlled by PC controller: There are 3 channels, standing for R, G, B gray scales. Each color has 256 gray scales(0 is off, 256 is the brightest). The controller 1# address holds 1,2,3 channels and the controller of 2# address holds 4,5,6 channels, so does the rest of the controllers in sequence.

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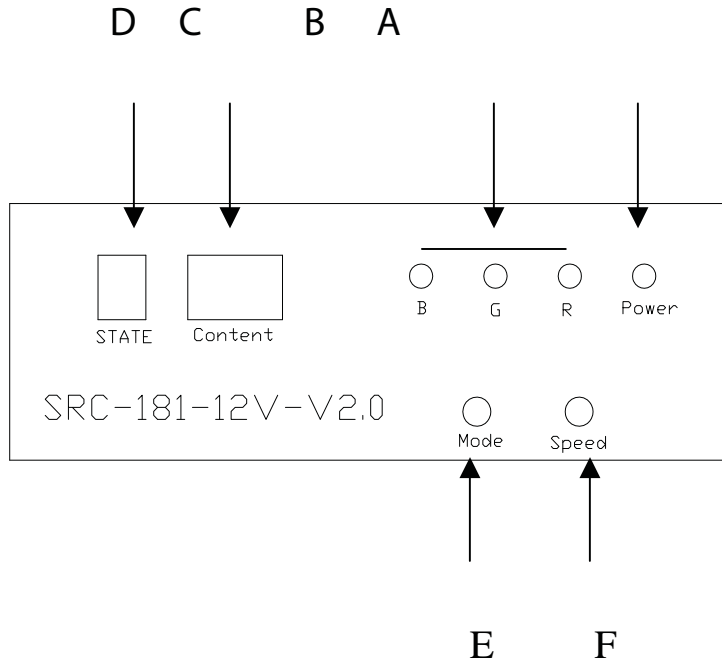
Installation Instruction:

- Waterproof rating: IP 44 Fireproof rating: UL-94V0
- Avoid high temperature, water or chemical substance.
- Do not operate the controller beyond its capacity.
- Make sure to leave some space between the radiator holes and other objects.
- Do not install or repair the controller while the power is on.
- Only a professional should open the case of the controller.
- 24V controller can support 32 sets low-voltage Multi Color Changing Type
- 12V controller can support 16 sets low-voltage Multi Color Changing Type
- 240V controller can support 100 sets high-voltage Multi Color Changing Type
- 120V controller can support 60 sets high-voltage Multi Color Changing Type

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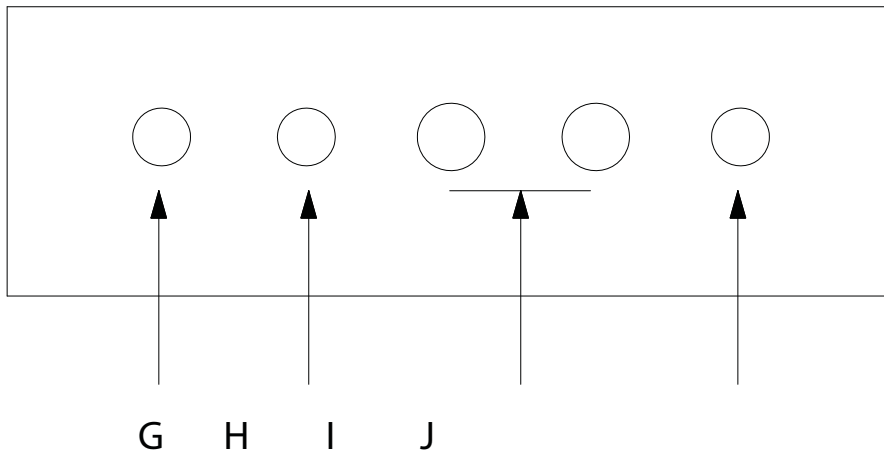
Diagrams:

Front View



- A. Power indicator light
- B. Output indicator light
- C. Display of content (decimal)
- D. Display of estate (H or C)
- E. "mode" key
- F. "speed" key
- G. DMX signal input
- H. DMX signal output
- I. Power or signal output
- J. Power input

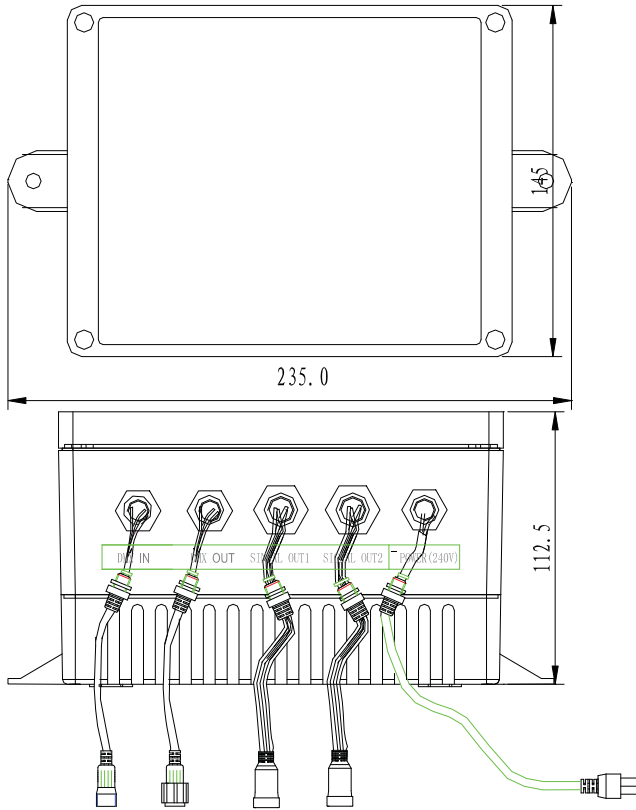
Back View



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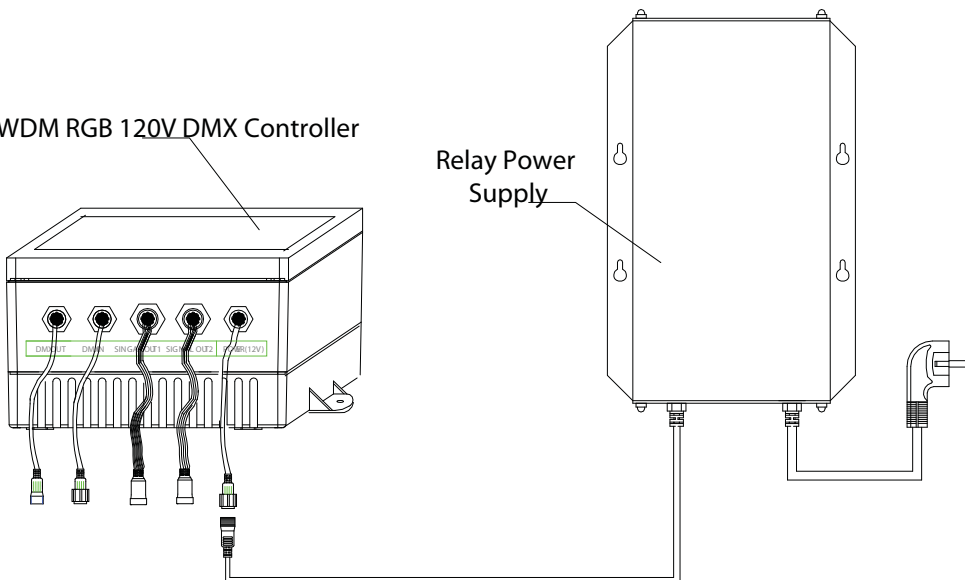
Diagrams:

Controller Size



WDM RGB 120V DMX Controller

Relay Power Supply

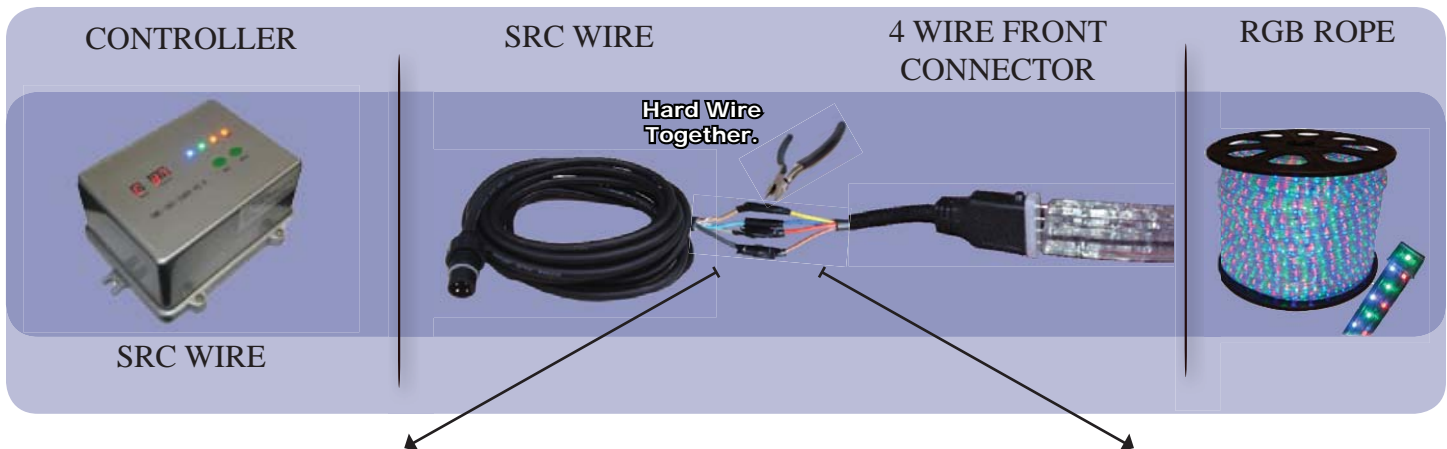


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Wire Instructions for RGB Rope Light to SRC Wire Cable:



The following is an example of how to wire a RGB Rope Light Front Power Connector to a **4 Pin Wire Cable** in order to have the light application controlled by RGB Controller with a built-in power supply. The **400 Watt 24 Volt RGB Controller** and **100 Watt 24 Volt RGB Controller** require a 4 Pin Wire male and female socket hook up.



Wiring the SRC Wire to the 4 Wire Front Connector:

1. Connect the SRC **WHITE** wire to the Front Connector **BLACK** wire.
2. Connect the SRC **RED** wire to the Front Connector **YELLOW** wire.
3. Connect the SRC **BLUE** wire to the Front Connector **BLUE** wire.
4. Connect the SRC **Green** wire to the Front Connector **BROWN** wire.



NOTE: The Rope Light is polarized, so you will connect to the opposite end of the spool.