

LED-ZIP LIGHTING - DMX LED STRIP CONTROLLER

Features

- 1、 Meets DMX512(1990) protocol. Can be used as a DMX512 decoder.
- 2、 A LCD screen showing controller current working status.
- 3、 33 normal color changing patterns and 2 DMX operating modes.
- 4、 256 levels brightness , totally 16.77 million colors, real full color(up to 65536 levels).
- 5、 0-255 speed adjustment levels for dynamic change
- 6、 RGB individual dimming function
- 7、 Automatic parameter memory
- 8、 XLR3 Male and Female interface

Part Number	SC-WC8
Fit for	Monochromatic and multicolor LED product
Warranty	3 years

Technical Parameters

Input Voltage: 12V/24V DC

Input Signal: DMX512(1990)

Output Channel: 12 channels with dimming and 2 channels with dynamic color/speed variation

Output Current: 5A/12VDC and 2A/24V DC for each channel

Function: All 35 modes

Dynamic color changing patterns

1. Static Red	18. RGB Flick
2. Static Green	19 . RGB Smooth
3. Static Blue	20. RG Smooth
4. Static Yellow	21. RB Smooth
5. Static Purple	22. GB Smooth
6. Static Cyan	23. RGB Gradual
7. Static White	24. RG Gradual
8. 7-Color Jump	25. RB Gradual
9. 6-Color Jump	26. GB Gradual
10. 7-Color Flick	27. R Gradual
11. RG Jump	28. G Gradual
12. RB Jump	29. B Gradual
13. GB Jump	30. R DIM MODE
14. RGB Jump	31. G DIM MODE
15. RG Flick	32. B DIM MODE
16. RB Flick	33. RGB mix
17. GB Flick	

Working as a normal controller (no connection to DMX console)

Modes 1-7 are modes for static colors. With the modes, brightness or speed is not able to be adjusted. Modes 8-33 are for dynamic color patterns. Brightness and speed levels can be programmed.

How to adjust speed –

Press key “MODE” to 8 to 33.

Step1: Press “SET” to set speed. Change value by “UP” and “DOWN” keys.

Step2: Press “SET” again to exit.

How to adjust brightness (dimming) -

Dimming red light

User can adjust the brightness of R, and the value will display on LCD screen:

Step1: Press “MODE” to select mode 30

Step2: Press “SET” to set brightness of Red, change value by “UP” “DOWN” keys.

Step3: Press “SET” again to exit.

Dimming green light:

User can adjust the brightness of Green, and the value will display on LCD screen:

Step1: Press “MODE” to select mode 31

Step2: Press “SET” to set brightness of Green, change value by “UP” “DOWN” keys.

Step3: Press “SET” again to exit.

Dimming blue light:

User can adjust the brightness of Blue, and the value will display on LCD screen:

Step1: Press “MODE” to select mode 32

Step2: Press “SET” to set brightness of Blue, change value by “UP” “DOWN” keys.

Step3: Press “SET” again to exit.

Dimming RGB light:

User can adjust the brightness of R,G,B separately, and the value will display on LCD screen:

Step1: Press “MODE” to select Mode 33

Step2: Press “SET” to set brightness of Red, change value by “UP” “DOWN”.

Step3: Press “SET” again to set brightness of Green, change value by “UP”/“DOWN”.

Step4: Press “SET” again to set brightness of Blue, change value by “UP”/“DOWN”.

Step5: Press “SET” again to exit.

Working with DMX console

Procedure to run dimming function :

Step 1: press "MODE" key to select mode 34. (be sure the console is already connected)

Step 2: press "SET" key to set receiving address code by "UP" and "DOWN" keys.

Step3: press "SET" to confirm and exit.

Achieve dimming by DMX

In dimming mode, if the controller is fully connected with 4 groups of RGB products, then the controller occupies 12 channels.

1、 If the address code is set as X, then the responding channels on console will be CHX, CH(X+1)..... CH(X+11). CHX dims Group 1 red light, CH(X+1) dims Group 1 green light, CH(X+2) dims Group 1 blue light. CH(X+3) dims Group 2 red light, CH(X+4) dims Group 2 green light, CH(X+5) dims Group 2 blue light.

2、 To achieve: Multiple controllers work with console and synchronous dimming for each controller The address codes for each controller should be the same. For instance, the address code is set as X, Then CHX on the console dims Group 1 red light, CH(X+1) dims Group 1 green light, CH(X+2) dims Group 1 blue light. CH(X+3) on the console dims Group 2 red light, CH(X+4) dims Group 2 green light, CH(X+5) dims Group 2 blue light.

3、 To achieve: Multiple controllers work with console and asynchronous dimming for each controller The address codes for each controller should be set according to the occupied channels by connected products. For instance, if all controllers are fully connected with RGB products, and controller 1 is set as X, then controller 2 address code should be set as X+12, and controller 3 set as X+24. The rest can be does in the same manner.

Procedure to run dynamic color change function

Step1: press "MODE" key to select mode 35. (be sure the console is already connected)

Step 2: press "SET" key to set receiving address code by "UP" and "DOWN" keys.

Step3: press "SET" to confirm and exit.

Achieve dynamic color changing and speed adjustment by DMX

No matter if a controller is fully connected with RGB products, the lights with each controller will do the dynamic color changing and speed adjustment simultaneously. Each controller will occupy 2 channels.

1、 Individual controller works with console.

If the address code is set as X, the corresponding channels on console will be CHX and CH(X+1). CHX is for dynamic color changing patterns. CH(X+1) is for speed adjustment.

2、 To achieve: Multiple controllers work with console. All controllers have the synchronous dynamic color changing patterns and speed adjustment.

If controller 1 address code is set as X, then the other controllers are also set as X. CHX on console will be responding to dynamic color changing and CH(X+1) responds to speed adjustment.

3、 To achieve: Multiple controllers work with console. Each controller has different dynamic color changing patterns and speed adjustment.

If controller 1 address code is set as X, then controller 2 will be set as X+2 and controller 3 set as X+4. Accordingly, CHX will respond to dynamic color changing with controller 1, CH(X+1) will respond to speed adjustment with controller 1. CH(X+2) will respond to dynamic color changing with controller 2, CH(X+3) will respond to speed adjustment with controller 2.

Safety Information :

1、 Each “channel unit” has the max. load capacity 180W and the 4 units can be loaded max. 720W. If connected with a RGB light, each R, G,B channel can not be loaded with more than 60W. **Please be sure each unit load is less than the max. load capacity, otherwise there is potential danger to destroy the controller.**

DC transformer/adaptor with adequate power is necessary responding to the load.

2、 Constant voltage driving way is applied on the controller output drive. User should make sure the controller and running LED lights to have the same voltage, e.g. a 12V DC transformer is needed to power the controller if the LED light is 12V DC, and a 24V DC transformer is needed to power the controller if the LED light is 24V DC.