DMX512-RDM Constant Voltage Decoder

Test mode as below

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User Manual

CE FC X

(Please read through this manual carefully before use)

Update Time: 2019.05.14

1. Brief Introduction

Welcome to use the Constant Voltage DMX512 Decoder which is developed only for constant voltage LED lamps. It adopted advanced micro-computer control technology to transfer standard RDM-DMX512/1990 signal to PWM signal. User can choose 1~4 output channels, 65536 gray scales, workable for single color, color temperature, RGB and RGBW led lamp.

2. Specifications

Model	DMX512 Decoder	
Input voltage	DC12V-DC24V	
Max load current	5A×4CH , Max 20A	
Max output power	240W(12V)/480W(24V)	
Scale level	256 levels(8bit)/65536 levels(16bit)	
Input signal	DMX512/RDM	
Output signal	Constant Voltage PWM×4CH	
Output frequency	3K、6K、12K、24K selectable	
DMX512 socket	Terminal block	
Control mode	DIM /CT /RGB /RGBW 4 modes switch	
Dimension	L176 X W46 X H30(mm)	
Weight (G.W)	140g	

3. Basic Features

1. Easy operation with OLED screen and touch buttons.

DMX512-RDM Constant Voltage Decoder

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6. Conjunction Diagram

1. Connect to DMX system:

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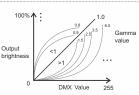
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Work with RDM controller:

2. 8bit (256 levels)/16bit (65536 levels) grey level optional.

3. With RDM remote management protocol, the operations can be completed via the RDM master console, such as parameters browsing & setting, DMX address setting, equipment recognition, etc. 4. Optional for standard, linear, LOG or custom 0.1-9.9 dimming curve.

- 5. Power-off data saved function.
- 6. Over current protection and short circuit protection.



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.

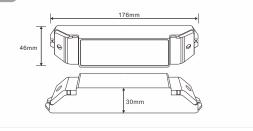
(please select DC12-24V power supply with constant voltage) 4.Don't connect cables with power on; make sure a correct connection and no short circuit checked with instrument before power on.

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.

6. More than 32 DMX decoders need to be connected a signal amplifier, and the signal amplification cannot exceed 5 times consecutively.

7. When the signal line is long or the wire quality causes the signal recoil effect to affect the use of product, you can try to connect 0.25W 90-120 Ω terminating resistor at the end of each signal line to solve

5. Dimensions



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7. Operating instructions

OLED screen interface:

MX Addr : 001

Output Freq : 3.0K Output Mode : RG

MX Addr : 00

6. Dimming curve

Output Curve: 1.0 Enter Test Mode

8. Built-in test

ode: M0 8 t 000 G: 000 000 W: 000 8 b

RC

4. Mode

Press "M" key, switch entries. Press "+" or "-" key, parameter adjustment Exit back to previous page. Long press three buttons in case of power off. Restar to restore the factory settings.

1. Lock screen interface

After 10 seconds of no operation After 10 seconds of no operation enter the screen lock interface, only the parameters that have been set are displayed. Press the M key for 2 seconds to unlock. When DMX signal input, a star symbol flashing.

3. PWM frequency

Press "+" or "-" key to choose Optional 3K, 6K, 12K, 24K It is recommended to use 3K

aaput Freq : <mark>3.0K</mark> Dutput Mode : P.

DMX Addr : 00

Press "+" or "-" key to choo Optional : 8bit 16bit (can be used when the master supports this feature)

7. Overcurrent/short circuit fault

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over current	ti

When overcurrent or short circuit occurs,the digital tube displays the corresponding fault channel

M + -

2. DMX address setting

Optional :

be set)

DIM, CT, RGB, RGBW

Press "+" or "-" key to cho

Optional : 0.1~9.9 (only 8bit can

recommended to use 1.8

0.1-9.9 is for special requirement

Press "+" or "-" key to choose

Optional: Mode M0-10 Digits 8bit or 16bit Grey scale 0-255 or 0-65536 Gamma value 0.1-9.9(only 8bit

can be set)

Main page Press "+" or "-" key to set DMX address.

Range: 001~512



5. Grey scale DMX Bit : 8





NO	Modes	Description
M0	RGBW can be dimmed separately in static mode	Brightness adjustable
M1	3 color skipping	Brightness, speed adjustable
M2	7 color skipping	Brightness, speed adjustable
M3	White color strobe	Brightness, speed adjustable
M4	3 color smooth	Brightness, speed adjustable
M5	Full color smooth	Brightness, speed adjustable
M6	RG color smooth	Brightness, speed adjustable
M7	R B color smooth	Brightness, speed adjustable
M8	GB color smooth	Brightness, speed adjustable
M9	White color fade & change	Brightness, speed adjustable
M10	Great cycle	All mode cycle

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.

 Any damages caused by inappropriate power supply or abnormal voltage.
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

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.