32CH DMX512 Constant Voltage Decoder **User Manual**



1、Brief Introduction

Welcome to use the DMX512 Constant Voltage Decoder which is developed only for constant voltage LED lamps. It adopts advanced micro-computer control technology to transfer DMX512/1990 signal to PWM signal. 32 channels output, max 3A each channel, $65536\ gray\ scales,\ workable\ for\ single\ color,\ color\ temperature,\ RGB\ and\ RGBW\ led\ lamp.$

2、Specifications

Model	32CH DMX512 Decoder
Input voltage	DC5V-24V
Max load current	3A×32CH, Max 96A
Max output power	480W(5V)/1152W(12V)/2304W(24V)
Output scale level	65536 levels
Input signal	DMX512/RDM,8Bit、16Bit optional
Output DMX channel	Constant Voltage PWM×32CH
Decode channel	32CH
DMX512 socket	XLR-3R/ RJ45/ Terminal block
Control mode	DIM /CT /RGB /RGBW 4 modes switch
Dimension	L195 X W145 X H38(mm)
Weight (G.W)	810a

3、Basic Features

- 1. Support RDM function.
- 2. Selectable output frequency 1K, 2K, 4K, 8K.

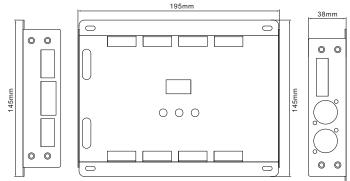
- Output gamma curve can be adjusted.
- 4. DMX decoding supports 8 bits or 16 bits.
- 5. OLED display.
- 6. 32 channels output.
- 7. Power-off data saved function.

4、Safety warnings

Please don't install this controller in lightening, intense magnetic and high-voltage fields.

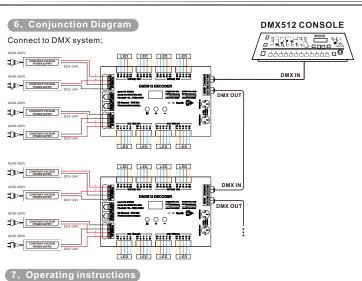
- 1.To reduce the risk of component damage and fire caused by short circuit, make sure correct connection.
- 2. Always be sure to mount this unit in an area that will allow proper ventilation to ensure a fitting temperature.
- 3. Check if the voltage and power adapter suit the controller. (please select DC12-24V 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

5、Interfaces



32CH DMX512 Constant Voltage Decoder

32CH DMX512 Constant Voltage Decoder f) When select Curve: $0.1,\ it$ is PWM output gamma curve, support gamma 0.1 - gamma 9.9; when at 16 bit, not support curve selection.



1. Three touch buttons: M,+,- .When decoder is on, interface showed as below:

DMX Addr: 001 DMX Bits:16 Output Freq:1.0K Output Mode:RGBW

DMX Addr: 001 DMX Bits:8 Output Freq:1.0K Output Mode:RGBW Output Curve:0.1 Enter Test Mode a) The decoder has an automatic key lock, pressing M button for about 2 seconds to unlock, and

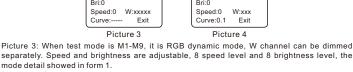
Output Cuve Enter Test Mode

- select the first DMX: 001, it is highlighted when selected. Short press M button to switch selection. The selection sequence is: DMX: 001, RGBW, Freq: 1.0K, 16 bit, curve: 0.1 and Enter Test Mode, then back to DMX: 001, and cycle in this way. b) When select DMX:001, press + button to increase, press - button to decrease, the Max. value is c) When select RGBW, press +, - button to switch DIM, CT, RGB and RGBW.
- d) When select Freq: 1.0K, press +,- button to select the PWM output frequency. e) When select 8 bit, it is DMX data decoded bit, support 8 bit or 16 bit.

- g) When select Enter Test mode, arbitrarily press + buttons to enter test mode interface. It doesn't support DMX decode function when enter it, and the test mode interface showed as
- picture 1 picture 4. Mode:M0 R:xxxxx 16bit G:xxxxx Mode:M0 R:xxx 8bit G:xxx

B:xxxxx W:xxxxx B:xxx W:xxx Curve Exit Curve:0.1 Exit Picture 1 Picture 2 Picture 1: When test mode is M0, it is static mode, RGBW can be dimmed separately, press M button to switch selection, and the max value is 65535 when at 16 bit mode. When select Exit,

arbitrarily press + - buttons to return main interface. it is straight line showed when at 16 bit mode, not support curve selection. The 16 bit and 8 bit refer to RGBW data bit. Picture 2 : Compared with picture 1, it supports curve selection function. Mode:M1 Bri:0 Mode:M1 Bri:0



Picture 4: Compared with picture 3, it supports W channel output gamma curve selection function.

1. Instruction: a) 8 outputs controlled synchronously when in test mode. R corresponding to CH(1+4*n), and the controlled synchronously when in test mode.

G corresponding to CH(2+4*n), B corresponding to CH(3+4*n), W corresponding to CH(4+4*n), n belong to (0,7). 0 indicates the first output. b) Test mode as below:

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
МЗ	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

c) The key lock function is activated automatically if no operation for 10 seconds. d) Under DMX decoding, the relation between decode address and output channels as below:

32CH DMX512 Constant Voltage Decoder

32CH DMX512 Constant Voltage Decoder

channel	(ocupy 8 DMX channels)	(ocupy 16 DMX channels)	(occupy 24 DMX channels)	(occupy 32 DMX channels)
CH1	- DMX Addr+0	DMX Addr+0	DMX Addr+0	DMX Addr+0
CH2			DMX Addr+1	DMX Addr+1
CH3		DMX Addr+1	DMX Addr+2	DMX Addr+2
CH4			DMX Addr+0	DMX Addr+3
CH5		DMX Addr+2	DMX Addr+3	DMX Addr+4
CH6	DMVAddata		DMX Addr+4	DMX Addr+5
CH7	- DMX Addr+1	DMX Addr+3	DMX Addr+5	DMX Addr+6
CH8			DMX Addr+3	DMX Addr+7
CH9		DMX Addr+4	DMX Addr+6	DMX Addr+8
CH10			DMX Addr+7	DMX Addr+9
CH11	DMX Addr+2		DMX Addr+8	DMX Addr+10
CH12		DMX Addr+5	DMX Addr+6	DMX Addr+11
CH13			DMX Addr+9	DMX Addr+12
CH14		DMX Addr+6	DMX Addr+10	DMX Addr+13
CH15	DMX Addr+3		DMX Addr+11	DMX Addr+14
CH16		DMX Addr+7	DMX Addr+9	DMX Addr+15
CH17		DMX Addr+8	DMX Addr+12	DMX Addr+16
CH18	DMX Addr+4		DMX Addr+13	DMX Addr+17
CH19			DMX Addr+14	DMX Addr+18
CH20		DMX Addr+9	DMX Addr+12	DMX Addr+19
CH21	- DMX Addr+5		DMX Addr+15	DMX Addr+20
CH22		DMX Addr+10	DMX Addr+16	DMX Addr+21
CH23			DMX Addr+17	DMX Addr+22
CH24		DMX Addr+11	DMX Addr+15	DMX Addr+23
CH25	- DMX Addr+6	DMX Addr+12	DMX Addr+18	DMX Addr+24
CH26			DMX Addr+19	DMX Addr+25
CH27		DMX Addr+13	DMX Addr+20	DMX Addr+26
CH28			DMX Addr+18	DMX Addr+27
CH29	- DMX Addr+7		DMX Addr+21	DMX Addr+28
CH30		DMX Addr+14	DMX Addr+22	DMX Addr+29
CH31		DMX Addr+15	DMX Addr+23	DMX Addr+30
CH32			DMX Addr+21	DMX Addr+31
		1		5

channel	(ocupy 16 DMX channels)	(ocupy 32 DMX channels)	(occupy 48 DMX channels)	(occupy 64 DMX channels
CH1	DMX Addr+0	DMYAddaya	DMX Addr+0	DMX Addr+0
CH2		DMX Addr+0	DMX Addr+2	DMX Addr+2
СНЗ		DAYA II. O	DMX Addr+4	DMX Addr+4
CH4		DMX Addr+2	DMX Addr+0	DMX Addr+6
CH5		DMX Addr+4	DMX Addr+6	DMX Addr+8
CH6	DMX Addr+2		DMX Addr+8	DMX Addr+10
CH7	DIVIX Addr+2	DMX Addr+6	DMX Addr+10	DMX Addr+12
CH8			DMX Addr+6	DMX Addr+14
CH9		DMX Addr+8	DMX Addr+12	DMX Addr+16
CH10	DIAVALL		DMX Addr+14	DMX Addr+18
CH11	DMX Addr+4		DMX Addr+16	DMX Addr+20
CH12		DMX Addr+10	DMX Addr+12	DMX Addr+22
CH13			DMX Addr+18	DMX Addr+24
CH14		DMX Addr+12	DMX Addr+20	DMX Addr+26
CH15	DMX Addr+6		DMX Addr+22	DMX Addr+28
CH16		DMX Addr+14	DMX Addr+18	DMX Addr+30
CH17		DMX Addr+16	DMX Addr+24	DMX Addr+32
CH18	DMX Addr+8		DMX Addr+26	DMX Addr+34
CH19		DMX Addr+18	DMX Addr+28	DMX Addr+36
CH20			DMX Addr+24	DMX Addr+38
CH21		DMX Addr+20	DMX Addr+30	DMX Addr+40
CH22	- DMX Addr+10		DMX Addr+32	DMX Addr+42
CH23		DMX Addr+22	DMX Addr+34	DMX Addr+44
CH24			DMX Addr+30	DMX Addr+46
CH25	- DMX Addr+12	DMX Addr+24	DMX Addr+36	DMX Addr+48
CH26			DMX Addr+38	DMX Addr+50
CH27			DMX Addr+40	DMX Addr+52
CH28		DMX Addr+26	DMX Addr+36	DMX Addr+54
CH29	- DMX Addr+14		DMX Addr+42	DMX Addr+56
CH30		DMX Addr+28	DMX Addr+44	DMX Addr+58
CH31		DMX Addr+30	DMX Addr+46	DMX Addr+60
CH32			DMX Addr+42	DMX Addr+62

E)Lock screen interface as follow: A:001 B:8 F:1.0K M:RGBW C:0.1 >Decode Mode,Long

32CH DMX512 Constant Voltage Decoder

press 'M' unlock

A is DMX address. B is DMX decode bit, F is output frequency, M is mode DIM, CT, RGB or RGBW, C is output curve .For the last sentence, if it is begin with Decode mode, that is in decode mode. If it is begin with Test Mode, that is in test mode.

2. Support RDM function, support regular command, the command as follow: DISC_UNIQUE_BRANCH DISC_MUTE DISC_UN_MUTE

DEVICE INFO SOFTWARE_VERSION_LABEL

DMX START ADDRESS IDENTIFY_DEVICE

3. Power-off data saved function.

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: 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. 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.