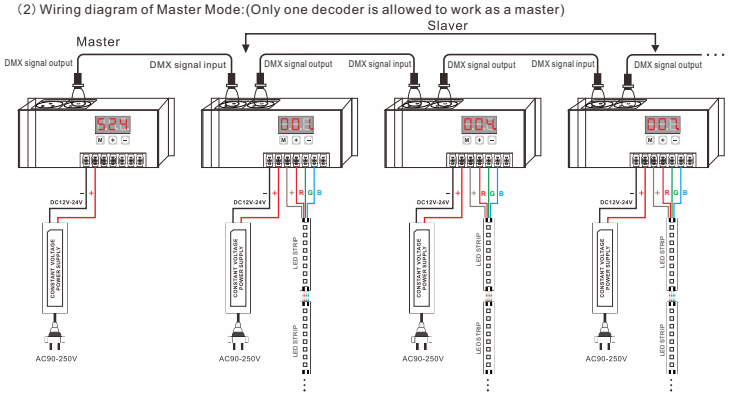
(2) Wiring diagram of Master Mode:(Only one decoder is allowed to work as a master)



7. Exception Handles

Malfunction	Reasons	Solutions
No light	1. No power supply	1. Check power supply
	2. Reversed polarity	2. Reverse it
	3. Signal terminal not connected or reversed	3. Signal terminal not connected or reversed
	4. Long circuit such as longer than 200m	4. Add signal terminator or amplifier
Wrong color	5. RGB wrong wiring	5. Re-wire RGB
	6. Wrong input of decoder address	6. Re-input
One or several color(s) alight but no change	7. Signal terminator wrongly connected or reversed	7. Check the wiring re-wire it properly
	8. Long circuit such as longer than 200m	8. Add signal terminator or amplifier
Abnormal shake during	9. Signal terminator not be properly connected	9. Connect it properly
	10. Long circuit such as longer than 200m	10. Add DMX signal transmitter or splitter

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.
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.

Constant Voltage DMX512 Decoder User Manual

(Please read through this manual carefully before use)

Update Time: 2019.4.15

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 DMX512/1990 signal to PWM signal. User can choose 1~3 output channels, 4096 Grey Scales. Multiple DMX512 signal interface.

2. Specifications

Model	3CH Decoder
Input voltage	DC12V-DC24V
Max load current	6A×3CH
Max Output Power	72W×3CH(12V)/144W×3CH(24V)
Grey Scale	4096 levels×3
Input Signal	DMX512/1990
Output Signal	Constant Voltage PWM×3
Decode Channel	3CH
DMX512 socket	XLR-3R port/ RJ45 port/terminal block
Dimension	L157×W65×H40(mm)
Weight (G.W)	450g

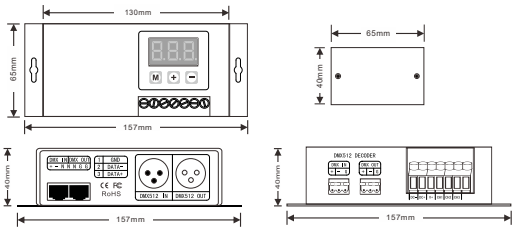
3. Basic Features

1. Automatically adapts input voltage DC12V-24V.
2. Input standard DMX512 signal; 3-digital-display shows DMX address.
3. 3 channels output; 4096 grey scales each channel; logarithmic dimming; lamplight soft & stable without strobe flash.
4. Support master mode or slave mode;
5. 8 color changing modes and 10 speed scales in master mode .
6. Indicator of the DMX512 signal receiving status.
7. Power loss memory function.
8.Over current protection and short circuit protection.Wrong wiring protection at DMX port.
9 .Multiple DMX512 signal interface.

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 90-120Ω terminating resistor at the end of each signal line to solve.

5.Dimensions



6. Operating instructions

Three touch buttons: M,+,-

M	Change order in 3 digital display
+	Increase value
-	Decrease value

Three-digital-display indicates the current setting value; different value indicates different operating status.Three-digital-display goes off without operation for 1 minutes, press any key to turn it on. When it is overload or short-circuits, the decoder will automatically stop output, LED display shows: "ERR", as below:

The decoder has an automatic key lock. If no settings are made to the decoder, the key lock function is activated after approximately 15 seconds automatically. Pressing M button for about 2 seconds to deactivated. Subsequently, the decoder can be set.

1. DMX Slave Mode: The value is: 001-512, such as: "001"

The decimal point of last digital of the display tube will twinkle regularly when receiveing DMX512 signal normally.
When no signal is received, the decimal point does not twinkle, and showing current DMX address.

000	All channels to 100%	516	MAGENTA
513	RED	517	CYAN
514	GREEN	518	YELLOW
515	BLUE	519	ORANGE

520-529	red, orange, yellow, green, cyan, blue, magenta (Fading mode)
530-539	white, magenta, red, orange, yellow, green, cyan, blue (Fading mode)
540-549	yellow/orange, red (Fading mode)
550-559	magenta blue (Fading mode)
560-569	cyan, blue (Fading mode)
570-579	green, yellow, (Fading mode)
580-589	All 3 channels make a pulsating move from 1% to 100% (Fading mode)
590-599	Strobo for all 3 channels 0% to 100% (Jumping mode)
600-699	Red from 0 to 99%
700-799	Green from 0 to 99%
800-899	Blue from 0 to 99%
900-999	10 different white tones mixing with different RGB percentage

*520-599，First two digital indicate the modes, the third one shows the speed. 10 speed levels ,from 0-9 speed decreasing. Total: 8 modes ,such as:

Mode Speed level 4

Speed for Program 520 – 589 (Color Changing Fading Mode) for one step and not for the whole program:
0=0,5 sec. | 1=1 sec. | 2=2 sec. | 3=3 sec. | 4=5 sec. | 5=10 sec. | 6=15 sec. | 7=30 sec. | 8=60 sec. | 9=120 sec.
Speed for Programm 590 - 599 (one step and not for the whole program):
0=0,02 sec.| 1=0,04 sec.| 2=0,1 sec.| 3=0,2 sec.| 4=0,5 sec.| 5=1 sec.| 6=2 sec.| 7=5 sec.| 8=10 sec.| 9=15 sec.
Brightness for 900 - 999. the units digit show the brightness:
0=1% Brightness, 1=5% Brightness, 2=10% Brightness, 3=20% Brightness, 4=30% Brightness, 5=40% Brightness, 6=50% Brightness, 7=60% Brightness, 8=80% Brightness and 9=100% Brightness

2. Wiring Indication

1) wiring diagram of Slave Mode: