

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.

DMX512 Constant Voltage Decoder User Manual



(Please read through this manual carefully before use)

1. Brief Introduction

Welcome to use the DMX512 Constant Voltage 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 1~4 output channels, 4096 Grey Scales. Multiple DMX512 signal interface.

2. Specifications

Model	4CH Decoder
Input voltage	DC12V-DC24V
Max load current	6A×4CH
Max Output Power	60W×4CH(12V)/120W×4CH(24V)
Grey Scale	4096 levels×4
Input Signal	DMX512/1990
Output Signal	Constant Voltage PWM×4
Decode Channel	4CH
DMX512 socket	XL R-3R port/ RJ45 port/ terminal block
Dimension	L180×W66×H41(mm)
Weight (G.W)	510g

3. Basic Features

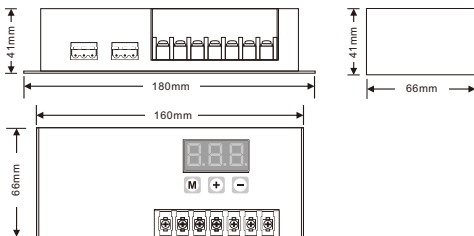
1. Automatically adapts input voltage DC12V-24V.
2. Input standard DMX512 signal; 3-digital-display shows DMX address.
3. 4 channels output; 4096 grey scales each channel; logarithmic dimming; lamplight soft & stable without strobe flash.
4. Indicator of the DMX512 signal receiving status.
5. Power loss memory function.
6. Multiple DMX512 signal interface.

4. Safety warnings

Please don't install this controller in lightning, 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.

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 backlight goes off without operation for 1 minutes, press any key to turn it on.

The decoder has an automatic key lock function. If no settings are made to the decoder, the key lock function is activated after approximately 15 seconds automatically. Press M button for about 2 seconds to deactivate it, and enter the setting mode.

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



The indicator on the housing will flash fast when receives DMX512 signal normally. When no signal is received, the indicator flashes slow, and showing current DMX address.

2. Built-in color modes:

000	All channels to 100%	540-549	yellow/orange. red (Fading mode)
513	RED	550-559	magenta blue (Fading mode)
514	GREEN	560-569	cyan. blue (Fading mode)
515	BLUE	570-579	green. yellow. (Fading mode)
516	MAGENTA	580-589	All 4 channels make a pulsating move from 1% to 100%(Fading mode)
517	CYAN	590-599	Strobo for all 4 channels 0% to 100% (Jumping mode)
518	YELLOW	600-699	Red from 0 to 99%
519	ORANGE	700-799	Green from 0 to 99%
520-529	red,orange,yellow,green,cyan,blue,magenta (Fading mode)	800-899	Blue from 0 to 99%
530-539	white, magenta, red, orange, yellow, green, cyan, blue (Fading mode)	900-999	White from 0 to 99%

\*520-599, First two digitals indicate the sequence, 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 Program 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.

2. Wiring Indication

