Example 1: Set to 37
Set the 6th, 3rd, 1st bit of the DIP switch downward to "1", others to "0" (picture 1), the total sum from 1 to 9 is 32+4+1, so the DMX512 initial address code is 37.

Picture 1

Example 2:
Set DMX512 original address code as 328: Set the 9th, 7rd, 4st bit of the DIP switch downward to "1", the rest to "0" (as picture 2), the total sum from 1 to 9 is 256+64+8, so the DMX512 original address code is 328.

Picture 2

Ⅵ.Instructions for other functions
1、Testing function:
The 10th DIP switch is FUN, acting as the function key.
DMX512 Decoder works when FUN is at OFF, receiving DMX512 signals.
Decoder testing works when FUN is at position" ON" as Picture 3:
SWITCH1-9 OFF:BLACK
SWITCH1 IS ON:RED
SWITCH2 IS ON:GREEN
SWITCH3 IS ON :BLUE
SWITCH4 IS ON :YELLOW
SWITCH5 IS ON :PURPLE
SWITCH6 IS ON :CYAN
SWITCH7 IS ON :WHITE
SWITCH8 IS ON : 7 COLOR JUMPING (8 SPEED LEVELS)
SWITCH9 IS ON : 7 COLOR SMOOTH (8 SPEED LEVELS)

Picture 3

2、Color jumping & color smooth speed
When decoder is at testing mode, DIP Switch 8 is "ON", it's the 7 Color Jumping, when DIP Switch 9 is at "ON", it's the 7 Color Smooth, with 8 speed levels for each effect.
SWITCH 1-7 OFF:SPEED 0
SWITCH 1=ON:SPEED 1
SWITCH 2=ON:SPEED 2
SWITCH 3=ON:SPEED 3
SWITCH 4=ON:SPEED 4
SWITCH 5=ON:SPEED 5
SWITCH 6=ON:SPEED 6
SWITCH 7=ON:SPEED 7;
As Picture 4. When several DIP SWITCH at "ON" at the same tim e,comply with the largest value switch; In Picture4, it shows the decoder status is color smooth at testing function, and is at Speed 7.

Picture 4

DMX512 Constant Current Decoder User Manual

（Please read through this manual carefully before use）

1、Brief Introduction

This Decoder is specially designed for high power LED lamps. Decoder has 3 output channels, outputs 350mA/700mA constant current PWM driving signal; each channel can realize 256 level grey control. Use DMX512 constant current decoder to directly control high power single/RGB color LED lamps without constant current IC, which do not need any extra circuit component, it could be connected with high power LED lamps in series.

2、Specifications

Model	Constant current 350mA	Constant current 700mA
Input voltage	DC12V-48V	DC12V-48V
Max load current	350MA/CH×3	700MA/CH×3
Driving LEDs	12V: 1-3pcs 1W LED 24V: 1-6pcs 1W LED 36V: 1-9pcs 1W LED 48V: 1-12pcs 1W LED	12V: 1-3pcs 3W LED 24V: 1-6pcs 3W LED 36V: 1-9pcs 3W LED 48V: 1-12pcs 3W LED
Grey Scale	256 levels/CH*3	
Input signal	DMX512/1990	
Output signal	3 Channels CC PWM	
Decoder channels	3Ch or 4Ch (4th CH is shutter strobe)	
DMX512 socket:	StandardXLR-3R, RJ45 port	
Product Dimension	L125×W52×H40(mm)	
Weight (G.W)	340g	

3、Basic Features

1.3 Output Channels, connect single/RGB color LED lamps.
2.0-100% brightness adjusting, 256 levels of grey scale per channel.
3.Standard DMX512 input protocol, set address with dip-switch.
4.Wide voltage input: DC12V-48V.
5.10 testing modes, 8 levels of changing speed.
6.2 Models: 350mA / 700mA constant current output.
7.Power loss memory function.

Two different versions
3 DMX ADD Version:
The 1st address controls LEDs on CH1,0-255 steps of brightness.
The 2nd address controls LEDs on CH2,0-255 steps of brightness.
The 3rd address controls LEDs on CH3,0-255 steps of brightness.
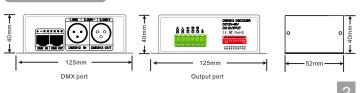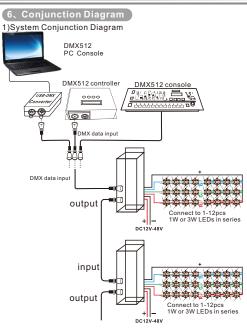
4 DMX ADD Version:
The 1st address controls LEDs on CH1, 0-255 steps of brightness.
The 2nd address controls LEDs on CH2, 0-255 steps of brightness.
The 3rd address controls LEDs on CH3, 0-255 steps of brightness.
0-127 of the 4th address controls the brightness, 128-255 for strobing.

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 DC12-48V 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、Interfaces

DMX port

Output port

6、Conjunction Diagram

1)System Conjunction Diagram

NOTE: According to DMX512 protocol, in order to ensure a steady data transmission, you should add a metalster(Metal Thin Film resistor，90-120Ω 1/4 W)at the end of each layout of DMX data cable(between Foot 2 and Foot 3, Data + and Data -), please also refer to your DMX console manual to select a correct resistor.

7、Operating instructions

1. Decoder address setting
This decoder occupies 3 addresses, adopted Dip switch to set the address, the Dip switches from 1 to 9 are a kind of binary value coding switches used to set DMX512 initial address code, the correlative bits is the 1-9 bits of the DIP switch, the 1st bit is LSC, the 9th bit MSC，512 addresses totally.
DMX512 initial address code is equal to the total amount of the Dip switches' number from 1 to 9, press Dip switch downward (ON: at position "1"), user can get the number of its position, if pressing upward (at position "0"), the number of its position is 0.
Accept DMX512 signal only when the DIP switch FUN=OFF (at position "0")

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.
7.Product has been updated.

9、Kindly Reminder

1.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.