Setting	LCD Display	Value	Mode
Built-in sequence	MASTER MODE MODE NO : 2	1-26	Master
Built-in speed	MASTER MODE RUN SPEED : 1	0-7	Master
DMX Address	DECODER MODE DMX ADDRESS: 1	1-512	Slave
DMX Signal RGB	DECODER MODE DMX RGB SEQ:RGB	"RGB" "BGR" only effective for RGB LED strip	Slave
Pixel	DECODER MODE PIX NUMBER: 170	1-170(RGB)/1-128(RGBW)	Master&Slave
IC type	DECODER MODE IC TYPE: 2811	"2811""2801""6803""3001" "8806""9813""1814""6812"	Master&Slave
RGB Sequence	DECODER MODE LED RGB SEQ: RGB	6 SEQ(RGB)/24 SEQ(RGBW). when select RGB sequence,within 5 seconds the first three pixels are red, green and blue respectively is correct, when select RGBW sequence, within 5 seconds the first four pixels are red, green, blue and white respectively is correct	Master&Slave
Integral Control	DECODER MODE ALL CONTROL: NO	"YES"," NO"	Master&Slave
Reverse Control	DECODER MODE REV-CONTROL: NO	"YES"," NO"	Master&Slave
0 1 110 1	· ·	· ·	

Control ICs type

IC Type	Compatible ICs	Type
2811	TM1803、TM1804、TM1809、TM1812、UCS1903、UCS1909、	
2011	UCS1912、UCS2903、UCS2909、UCS2912、WS2811、WS2812B etc.	
2801	WS2801、WS2803 etc.	1
6803	LPD6803、LPD1101、D705、UCS6909、UCS6912 etc.	RGB
3001	TLS3001, TLS3002 etc.	
8806	LPD8803、LPD8806 etc.	
9813	P9813 etc.	
1814	TM1814 etc.	RGBW
6812	SK6812RGBW、UCS2904、P9412 etc.	KGBW

Built-in sequences list

NO.	Built-in sequences	NO.	Built-in sequences
1	Solid color: Black(Off)	14	Green chase with trail
2	Solid color: Red	15	Blue chase with trail
3	Solid color: Green	16	white chase with trail
4	Solid color: Blue	17	RGB chase with trail
5	Solid color: Yellow	18	Rainbow chase with trail
6	Solid color: Purple	19	RGB chasing and fading
7	Solid color: CYAN	20	Red chasing Green, chasing Blue
8	Solid color: White	21	Orange chasing Purple, chasing Cyan
9	RGB CHANGE	22	Rainbow chase - 7 Colors
10	full COLOR CHANGE	23	Random twinkle: White over red background
11	RGB FADING	24	Random twinkle: White over green background
12	FULL COLOR FADING	25	Random twinkle: White over blue background
13	Red chase with trail	26	White fading
	1 2 3 4 5 6 7 8 9 10 11	1 Solid color: Black(Off) 2 Solid color: Red 3 Solid color: Green 4 Solid color: Blue 5 Solid color: Purple 6 Solid color: CYAN 8 Solid color: White 9 RGB CHANGE 10 full COLOR CHANGE 11 RGB FADING 12 FULL COLOR FADING	1         Solid color: Black(Off)         14           2         Solid color: Red         15           3         Solid color: Green         16           4         Solid color: Blue         17           5         Solid color: Yellow         18           6         Solid color: Purple         19           7         Solid color: CYAN         20           8         Solid color: White         21           9         RGB CHANGE         22           10         full COLOR CHANGE         23           11         RGB FADING         24           12         FULL COLOR FADING         25

### DMX512 DATA Decoder **User Manual**





(Please read through this manual carefully before use)

#### 1. Brief Introduction

Welcome to use the DMX512 signal decoder, it is developed specially for LED lamps. It adapts the most advantage microchip technology, to convert the universal standard DMX512/1990 signal into various LED driving IC signals, and allows the LED lamps controlled by DMX512 protocol.

#### 2. Specifications

Mode	DMX512 DATA Decoder
Input power	DC5V-DC24V
Input signal	DMX512/1990
Output signal	6803/8806/2811/2801/3001/9813/1814/6812 selectable
Driving channel	510(RGB)/512(RGBW)
Control Pixel	170(RGB)/128(RGBW)
Dimension	L176×W46×H30(mm)
Weight (G.W)	180g

#### (3. Basic Features)

- Automatically adapts input voltage DC5V-24V.
   Input standard DMX512 protocol.
- 3. Adapts LCD display, user friendly.
- 4. Support various LED dream color driving ICs.
- 5. Support DMX master mode or slave mod
- 6. Over current fuse protection at output port, Wrong wiring protection at DMX input port.

DMX512 DATA Decoder

DMX512 DATA Decoder

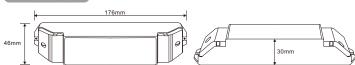
### 4. Safety warnings

- 1.To ensure correct operation, please read the user manual carefully before use.
  2.Please don't install this controller in lightening, intense magnetic and high-voltage fields.
  3.To reduce the risk of component damage and fire caused by short circuit, make sure correct connection.
- 4. Always be sure to mount this unit in an area that will allow proper ventilation to ensure a fitting temperature.

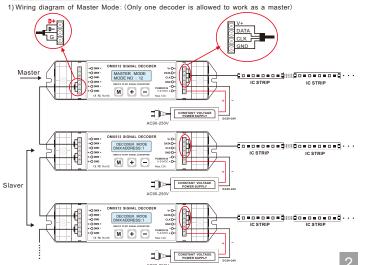
  5. Check if the voltage and power adapter suit the controller. (please select DC5-24V power supply with constant voltage)
- 6.Don't connect cables with power on: make sure a correct connection and no short circuit checked with
- instrument before power on.

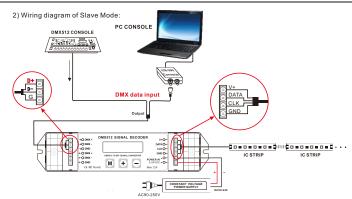
  7. Please don't open controller cover and operate if problems occur. Please contact your controller supplier at first time.

## 5. Dimensions



# 6. Conjunction Diagram





Output LPD6803/LPD8806/P9813/WS2801 signal, three

	Output Et Boood/Et Boood/ 3010/W02001 Signal, tillee lilles.		
	DATA	6803/8806/9813/2801 DATA	
	CLK	6803/8806/9813 /2801CLK	
	GND	GND, connect with the chip GND	
Output WS2811/TLS3001/TM1814/SK6812 signal,two lines:			
	DATA	WS2811/TLS3001 DATA-CLK	
	GND	GND, connect with the chip GND	

The input of the power supply can either wire to the output of the decoder V+, or wire seperately. When wire to V+, the inner fuse plays its role, and the max output current is 12A. here is the schematic diagram:



\*Note: According to DMX512 protocol, in order to ensure a stable data transmission, you should add a metalster(Metal Thin Film resistor, 90-1200 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

There are 3 buttons on the decoder: M (Manu), + (increase),-(decrease)

M	Parameter setting,Long press for 2 seconds to switch between master mode and slave mode
+	Increase value
-	Decrease value

after operation, if no action within 30s, the key locks, backlight of the screen will turn off. Long press "M" for 2s to unlock the keys, and the backlight turns on.
When at master mode, the first line of LCD shows: MASTER MODE
When at slave mode, the first line of LCD shows: DECODER MODE
the second line of the LCD shows the current parameter, such as: